# Antenna Specs

ComDat Antennas		cifications	S Series	T Series	D Series
Compat Antennas	dB Gain	FAA TSO	ComDat 248/2480	ComDat 268/2680	ComDat Data
vidyne - Data Link					
)rbcomm /HF/Orbcomm		C37d C38d	248-10	268-10	
GPS/Orbcomm	47.0 10	C37d C38d	248-30	268-30	
	17.0 dB	C144	2480-101	0000 400	
GPS/Orbcomm	26.5 dB	C144	2480-100	2680-100	
SPS/VHF/Orbcomm	17.0 dB	C144	2480-301		
SPS/VHF/Orbcomm	26.5 dB	C144	2480-300	2680-300	
SPS/VHF/SAT-ENT/WX	26.5 dB	C144		2680-400	
GPS/VHF/Orbcomm/SAT-ENT/WX	26.5 dB	C144		2680-500	
iPS	40.0 dB	C144			405-100
SPS/Orbcomm	40.0 dB	C144	2480-104	2680-104	
SPS/VHF	40.0 dB	C144	2480-204	2680-204	
GPS/VHF/Orbcomm	40.0 dB	C144	2480-304	2680-304	
SPS/VHF/SAT-ENT/WX	40.0 dB	C144		2680-404	
GPS/VHF/Orbcomm/SAT-ENT/WX	40.0 dB	C144		2680-504	
reeFlight - GPS Systems					
iPS	40.0 dB	C144			405-100
iPS/VHF	40.0 dB	C144	2480-204	2680-204	
armin - GPS Systems					
iPS	17.0 dB	C129a			405-26
GarminAT	26.5 dB	C144			405-200
GarminAT	26.5 dB	C144			401-220
/HF (GPS Filtered)		C37d C38d	248-5	268-5	
GarminAT/Orbcomm (GDL 49)	26.5 dB	C144	2480-100	2680-100	
GPS/Orbcomm (GDL 49)	17.0 dB	C144	2480-101		
GarminAT/VHF	26.5 dB	C144	2480-200	2680-200	
SPS/VHF	17.0 dB	C129a	2480-201		
SAT-ENT/WX/VHF		C37d C38d		2680-206	
GarminAT/VHF/Orbcomm (GDL 49)	26.5 dB	C144	2480-300	2680-300	
GPS/VHF/Orbcomm (GDL 49)	17.0 dB	C129a	2480-301		
GarminAT/VHF/SAT-ENT/WX	26.5 dB	c144		2680-400	
GarminAT/VHF/Orbcomm/SAT-ENT/WX	26.5 dB	c144		2680-500	
Iobalstar - Satellite Communications	00.0 JD	- 1 4 4			400.4
Globalstar	29.0 dB	c144			480-1
loneywell - FIS and GPS Systems IS (KDR 510)		C37d C38d	248-180		
SPS	26.5 dB	C144	248-180		405-200
SPS	26.5 dB	C144			405-200
/HF (GPS Filtered)	20.5 UB	C37d C38d	248-5	268-5	401-220
SAT-ENT/WX/VHF		C37d C38d	248-5	2680-206	
GPS/Orbcomm	26.5 dB	C144	2480-100	2680-100	
SPS/VHF	26.5 dB	C144	2480-200	2680-200	
SPS/VHF/Orbcomm	26.5 dB	C144	2480-300	2680-300	
PS/VHF/SAT-ENT/WX	26.5 dB	C144	2400 300	2680-400	
PS/VHF/Orbcomm/SAT-ENT/WX	26.5 dB	C144		2680-500	
idium - Satellite Communication	20.0 00	2.111		2000 000	
ridium	Passive	C144			490-1
rbcomm - LEO/WX Data Link					
Procomm		C37d C38d	248-10	268-10	
'HF/Orbcomm		C37d C38d	248-30	268-30	
SPS/Orbcomm	26.5 dB	C144	2480-100	2680-100	
SPS/Orbcomm	17.0 dB	C144	2480-101		
SPS/VHF/Orbcomm	26.5 dB	C144	2480-300	2680-300	
PS/VHF/Orbcomm	17.0 dB	C129a	2480-301		
irius - WX/Satellite Entertainment					
AT-ENT/WX/VHF		C37d C38d		2680-206	
GPS/WX/Entertainment	26.5 dB	C144			401-420
niversal - GPS Systems					
iPS	26.5 dB	C144			405-200
BPS	26.5 dB	C144			401-5-B
'HF (GPS Filtered)		C37d C38d	248-5	268-5	
BPS/Orbcomm	26.5 dB	C144	2480-100	2680-100	
SPS/VHF	26.5 dB	C144	2480-200	2680-200	
BPS/VHF/Orbcomm	26.5 dB	C144	2480-300	2680-300	
VSI - WX/Weather Satellite					
VSI	27.0 dB	STC			1530-1
VSI/VHF	27.0 dB	C37d C38d	2480-205	2680-205	
KM - WX/Satellite Entertainment					
(M/Weather		STC			420-1
(M/VHF/Weather		C37d C38d	2480-206	2680-206	
GPS/WX/Entertainment	26.5 dB	C144			401-420

Cl 248-30, Cl 2480-300, -301, -304 Ci 268-30, Cl2680-300, -301, -304, -500, -504

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## 214.320.9770

#### **Dallas Avionics**

#### 800.527.2581

#### What is ComDat?

ComDat stands for Communications / Data, and represents a new series of antennas made exclusively by Comant. These antennas acquire data for some of the newest aviation systems begin offered, such as Orbcomm, Iridium, WSI, XM Satellite Radio, as well as GPS and VHF.

#### How are ComDat antennas different?

ComDat antennas combine many of these new antenna requirements into one, reducing the number of antennas an aircraft requires in order to utilize services such as Orbcomm or GPS. Plus, most ComDat antennas are packaged in Comant's new 248/2480 radome shell, offering a sleek, low drag package that is as tough as it is good looking.

#### How are ComDat antennas the same?

ComDat antennas share Comant's standard VHF (CI 121) and teardrop GPS (CI 405 series) footprints, making them virtual drop-ins for installation ease.

#### Why is the concept of combining antennas important?

With the proliferation of new systems like Orbcomm or WSI, etc., there is simply not enough room on aircraft (especially smaller GA aircraft) to accommodate more antennas. Airframe builders like Cessna, Piper and Cirrus must offer these new systems to their customers, and are demanding that the required antennas be combined with other systems in order to save space and reduce drag.

#### This sounds simple. Why hasn't it been done before?

Various antenna frequencies can interfere with each other. For example, VHF can interfere with GPS, rendering GPS useless. That's why separate VHF and GPS antennas must be at least three feet apart when mounted on an aircraft. In the case of the combined GPS/VHF ComDat, Comant has patented an integrated third-order notch filter, removing the harmful VHF harmonics that interfere with GPS reception.

#### What makes the CI 248-5 VHF a ComDat antenna? How is it different from other VHF antennas?

The ComDat CI 248-5 VHF antenna contains an integrated GPS notch filter. This eliminates the need for this stand-alone VHF to be three feet away from a GPS antenna, making more room available on the airframe. For example, single engine Cessna aircraft have both VHF antennas, and the GPS antenna on the wing above the cockpit. Installing a VHF/GPS combination and a CI 248-5 in this area will eliminate the need for in-line notch filters on the coax.

#### How does the VHF/GPS/Orbcomm ComDat work? Does it have three connectors?

Comant has worked closely with Avidyne in the development of these models. As with other combination ComDat antennas, this version has just two connectors. Comant developed a wide-band VHF antenna that operates over the VHF/Orbcomm frequencies. Avidyne developed a specialized switch that allows VHF communications (Com 2 suggested) when required, and Orbcomm transmit/receive when activated.

#### What else is new in the ComDat line?

Comant has developed a 40dB amplifier that will work with Chelton Flight Systems, Trimble, and FreeFlight. It's available as a stand-alone 405 Series or in combination with VHF and/or Orbcomm. We have also developed a 17dB amplifier for Garmin, and FIS antenna for Honeywell's KDR510, and Iridium antennas.

#### Can we get WSI or XM antennas from Comant?

Although manufactured by Comant, currently these antennas are available exclusively from their designated suppliers.

#### Are ComDat GPS antennas approved for Category 1 NPA's, or ILS?

ComDat antennas are TSO'd to C129a or C144. Comant is working closely with Honeywell and Garmin to assure that ComDat antennas are approved and listed in installation manuals for their GPS systems. In almost every case, the FAA currently allows ComDat antenna installations by citing Advisory Circular 20-41A for the substitution of TSO equipment for functionally similar TSO approved equipment.

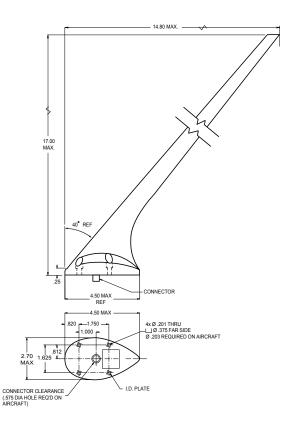
Frequency 118-137 MHz

Polarization       Vertical         Radiation Pattern       Omnidirectional         Impedance       50 OHMS         Power       25 Watts         Harmonic Rejection       80 dB typical         Mechanical       Weight         Weight       0.52 lbs. maximum         Haterial       Molded radome         Finish       Polyurethane enamel         Connector       BNC         Environmental       Temperature         -55° C to +85° C       Altitude         50,000'       350 Knots TAS @ 25,000'	
VSWR 2.5:1 maximum Polarization Vertical Radiation Pattern Omnidirectional Impedance 50 OHMS Power 25 Watts Harmonic Rejection 80 dB typical Mechanical Weight 0.52 lbs. maximum Height 17" maximum Material Molded radome Finish Polyurethane enamel Connector BNC Environmental Temperature -55° C to +85° C Altitude 50,000' Air Speed 350 Knots TAS @ 25,000'	
Polarization       Vertical         Radiation Pattern       Omnidirectional         Impedance       50 OHMS         Power       25 Watts         Harmonic Rejection       80 dB typical         Mechanical       Weight         Weight       0.52 lbs. maximum         Haterial       Molded radome         Finish       Polyurethane enamel         Connector       BNC         Environmental       Temperature         -55° C to +85° C       Altitude         50,000'       350 Knots TAS @ 25,000'	
Radiation Pattern       Omnidirectional         Impedance       50 OHMS         Power       25 Watts         Harmonic Rejection       80 dB typical         Mechanical       Weight         Weight       0.52 lbs. maximum         Haterial       Molded radome         Finish       Polyurethane enamel         Connector       BNC         Environmental       Temperature         -55° C to +85° C       Altitude         50,000'       Air Speed	
Impedance       50 OHMS         Power       25 Watts         Harmonic Rejection       80 dB typical         Mechanical       .52 lbs. maximum         Height       0.52 lbs. maximum         Height       17" maximum         Material       Molded radome         Finish       Polyurethane enamel         Connector       BNC         Environmental       -55° C to +85° C         Altitude       50,000'         Air Speed       350 Knots TAS @ 25,000'	
Power       25 Watts         Harmonic Rejection       80 dB typical         Mechanical         Weight       0.52 lbs. maximum         Harmonic Rejection       80 dB typical         Mechanical       Weight         Weight       0.52 lbs. maximum         Haight       17" maximum         Material       Molded radome         Finish       Polyurethane enamel         Connector       BNC         Environmental       -55° C to +85° C         Altitude       50,000'         Air Speed       350 Knots TAS @ 25,000'	
Harmonic Rejection80 dB typicalMechanicalWeight0.52 lbs. maximumHeight17" maximumMaterialMolded radomeFinishPolyurethane enamelConnectorBNCEnvironmentalTemperature-55° C to +85° CAltitude50,000'Air Speed350 Knots TAS @ 25,000'	
Mechanical         Weight       0.52 lbs. maximum         Height       17" maximum         Material       Molded radome         Finish       Polyurethane enamel         Connector       BNC         Environmental       -55° C to +85° C         Altitude       50,000'         Air Speed       350 Knots TAS @ 25,000'	
Weight       0.52 lbs. maximum         Height       17" maximum         Material       Molded radome         Finish       Polyurethane enamel         Connector       BNC         Environmental       Temperature         -55° C to +85° C         Altitude       50,000'         Air Speed       350 Knots TAS @ 25,000'	
Height       17" maximum         Material       Molded radome         Finish       Polyurethane enamel         Connector       BNC         Environmental       -55° C to +85° C         Altitude       50,000'         Air Speed       350 Knots TAS @ 25,000'	
Height       17" maximum         Material       Molded radome         Finish       Polyurethane enamel         Connector       BNC         Environmental       -55° C to +85° C         Altitude       50,000'         Air Speed       350 Knots TAS @ 25,000'	
Finish     Polyurethane enamel       Connector     BNC       Environmental       Temperature     -55° C to +85° C       Altitude     50,000'       Air Speed     350 Knots TAS @ 25,000'	
Connector     BNC       Environmental       Temperature     -55° C to +85° C       Altitude     50,000'       Air Speed     350 Knots TAS @ 25,000'	
Environmental       Temperature     -55° C to +85° C       Altitude     50,000'       Air Speed     350 Knots TAS @ 25,000'	
Temperature-55° C to +85° CAltitude50,000'Air Speed350 Knots TAS @ 25,000'	
Altitude         50,000'           Air Speed         350 Knots TAS @ 25,000'	
Altitude         50,000'           Air Speed         350 Knots TAS @ 25,000'	
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Federal Specifications	
RTCA Environmental DO-160D	
Environmental Category [F2X]ACB[S(L)U(F,F1)T(C,C1	,R)]
XRFDXSXXXXX[XX]X[XXXX	]XAX
FAA TSO C37d, C38d	
RTCA MOPS DO-186A	
Order Options	
Connector	
BNC Standard	
Color	
White Standard	



This sleek new design was developed for Cessna's 182 and 182T aircraft. Impressive with its low-drag and good looks, the Cl 248-5 has been credited with adding 2 to 3 Knots on certain aircraft. The first totally new look in VHF antennas in decades, the Cl 248-5 was tested to some of the most rigorous requirements outlined in RCTA D0-160D. Rated to 350 Knots for most high powered twins, the antenna is also certified for helicopter applications.

Truly unique, the Cl 248-5 is the only VHF antenna with a built-in notch filter, this allows the Cl248-5 to be placed in close proximity to GPS antennas without interference issues. **P/N Cl 248-5** 



**Dallas Avionics** 

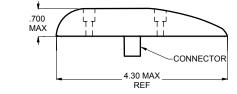
## **COMDAT™ GPS**

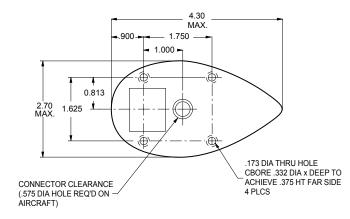
Frequency 1575.42 MHz 17dB Gain



Active GPS antenna designed for airborne applications for aircraft up to 600 knots. All 405 series antennas offer DC grounding and have passed rigorous Lightning Direct Effects testing as prescribed in D0-160C. Teardrop footprint allows for drop-in replacement in many popular VHF footprints. The CI 405-26 was specifically designed for use with Garmin™ GPS receivers. Available in many standard formats as listed. Additional designs with various gain and filter configurations are available.

P/N CI 405-26





Model	CI 405-26 GPS
Electrical	
Frequency	1575.42 ± 2 MHz
Polarization	RHCP
Axial Ratio (Boresight)	3 dB maximum
Power Handling	1 Watt
Radiation Coverage (Gain)	-1.0 dBic $\leq \emptyset < 75^{\circ}$
	-2.5 dBic $\leq \emptyset < 80^{\circ}$
	-4.5 dBic $\leq \emptyset < 85^{\circ}$
	-7.5 dBic $\leq \emptyset$ = 90° (horizon)
	+5.0 dBic (nominal) @ Ø = 0° (zenith)
Amplifier	
Voltage	5VDC
Nominal Gain	17dB ± 3 dB
Noise Figure	3.0 dB maximum
Impedance	50 OHMS
VSWR	2.0:1 maximum output
Out of Band Rejection	35 dB minimum @ 626 MHz
Power Handling	50 mA maximum
Lightning	DC grounded
Mechanical	
Weight	0.3 lbs. maximum
Height	0.75" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	TNC (female)
Footprint	Teardrop (compatible
	to standard VHF)
Environmental	
Temperature	-55° C to +85° C
Altitude	55,000'
Air Speed	600 Knots TAS
Federal Specifications	
RTCA Environmental	DO-160D
FAA TSO	C129a
RTCA MOPS Order Options	DO-208
Connector	
BNC	CI 405-26
Color	
White	Standard

Comant

Model	CI 2480-100 GPS/ Data Link Combination	
<b>GPS Electrical</b>		
Frequency	1575.42 ± 3 MHz	
Polarization	RHCP	
Axial Ratio (Boresight)	3 dB maximum	
Power Handling	1 Watt	
Radiation Coverage (Gain)	-1.0 dBic $\leq \emptyset < 75^{\circ}$	
	-2.5 dBic $\leq \emptyset < 80^{\circ}$	
	-4.5 dBic $\leq \emptyset < 85^{\circ}$	
	-7.5 dBic $\leq \emptyset = 90^{\circ}$ (horizon)	
	+5.0 dBic (nominal) @ $\emptyset = 0^{\circ}$ (zenith	
Amplifier		
Voltage	5VDC	
Gain	26.5 dB	
Noise Figure	3.0 dB maximum	
Impedance	50 OHMS	
VSWR	2.0:1 maximum output	
Out of Band Rejection	35 dB minimum @ 1626 MHz	
Power Handling	50 mA maximum	
Lightning	DC grounded	
Data Link Electrical		
Frequency	137 to 150.5 MHz	
VSWR	2.5:1 maximum	
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Impedance	50 OHMS	
Power Rating	50 Watts	
VHF Harmonic Rejection	80 dB typical	
Mechanical		
Weight	0.6 lbs. maximum	
Height	17.0" maximum	
Material	Molded radome	
Finish	Polyurethane enamel	
Connector	See order option	
Environmental		
Temperature	-55° C to +85° C	
Altitude	55,000'	
Air Speed	350 Knots TAS	
Federal Specifications	5	
RTCA Environmental	DO-160D	
Environmental Category	[F2X]ACB[S(L)U(F,F1)T(C,C1,R)]	
	XRFXXSXXXXXXXX[XX]C	
FAA TSO	C37d, C38d, C144	
RTCA MOPS <b>Order Options</b>	DO-186A, DO-228	
Connector		
BNC	Data link port	
TNC	GPS port	
Color		
White	Standard	
Gasket		
Cabilot		

C248006-2

214.320.9770

Gasket

## **COMDAT™ GPS/Data Link Combination**

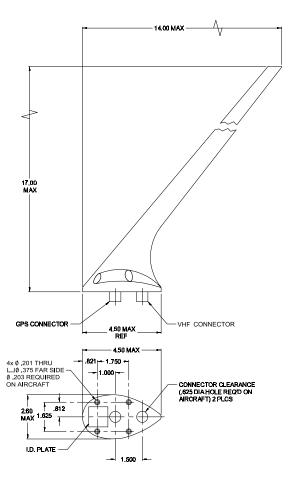
Frequency 1575.42 MHz 26.5dB Gain 137-150.5 MHz



Unique in concept and design, the CI 2480-100 ties the newest avionics systems into a simple, sleek antenna package. Using the CI 248 radome, this antenna provides GPS for Honeywell Bendix-King™ receivers and ORBCOMM™ Data Link Capability in a single footprint that matches standard VHF antenna configurations. This means the antenna offers nearly a "drop-in" installation process for your avionics technician.

The ORBCOMM™ LEO satellite constellation brings real time weather and e-mail within easy reach of any pilot. Plus, the Cl 2480-100 GPS amplifier is specifically built for Honeywell Bendix-King™ receivers, providing optimum GPS performance.

#### P/N CI 2480-100



## Dallas Avionics

## **COMDAT™ GPS/Data Link Combination**

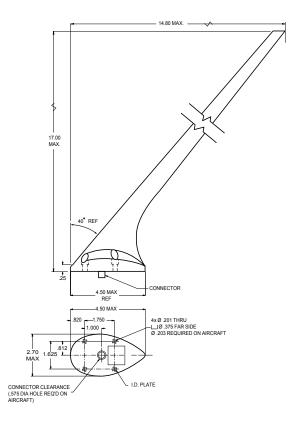
Frequency 1575.42 MHz 17dB Gain 118-150 MHz



Unique in concept and design, the CI 2480-101 ties the newest avionics systems into a simple, sleek antenna package. Using the CI 248 radome, this antenna provides GPS for Garmin<sup>™</sup> receivers and ORBCOMM<sup>™</sup> Data Link Capability in a single footprint that matches standard VHF antenna configurations. This means the antenna offers nearly a "drop-in" installation process for your avionics technician.

The ORBCOMM™ LEO satellite constellation brings real time weather and e-mail within easy reach of any pilot. Plus, the Cl 2480-101 GPS amplifier is specifically built for Garmin™ receivers, providing optimum GPS performance.

P/N CI 2480-101



Model	CI 2480-101 VHF/ GPS Combination
GPS Electrical	
Frequency	1575.42 ± 3 MHz
Polarization	RHCP
Axial Ratio (Boresight)	3 dB maximum
Power Handling	1 Watt
Radiation Coverage (Gain)	-1.0 dBic $\leq \emptyset < 75^{\circ}$
	-2.5 dBic $\leq \emptyset < 80^{\circ}$
	-4.5 dBic $\leq \emptyset < 85^{\circ}$
	-7.5 dBic $\leq \emptyset = 90^{\circ}$ (horizon)
	+5.0 dBic (nominal) @ $\emptyset = 0^{\circ}$ (zenith)
Amplifier	
Voltage	5VDC
Gain	17dB ± 3 dB
Noise Figure	2.0 dB maximum/3.8 dB maximum
Impedance	50 OHMS
VSWR	2.0:1 maximum output
Out of Band Rejection	35 dB minimum @ 1626 MHz
Power Handling	20 mA maximum
Lightning	DC grounded
Data Link Electrical	
Frequency	137 to 150.5 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power Rating	50 Watts
VHF Harmonic Rejection	80 dB typical
Mechanical	
Weight	0.6 lbs. maximum
Height	17.0" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	See order option
Environmental	
Temperature	-55° C to +85° C
Altitude	55,000′
Air Speed	350 Knots TAS
Federal Specifications	
RTCA Environmental	DO-160D
Environmental	[F2X]ACB[S(L)U(F,F1)T(C,C1,R)]
Category	XRFXXSXXXXXXXX[XX]C
FAA TSO	C37d, C38d, C144
RTCA MOPS	D0-228
Order Options	
Connector	
BNC	Data link port
TNC	GPS port
Color	
White	Standard
Gasket	
Gasket	C248006-2

Model	CI 2480-200 VHF/ GPS Combination
<b>GPS Electrical</b>	
Frequency	1575.42 ± 3 MHz
Polarization	RHCP
Axial Ratio (Boresight)	3 dB maximum
Power Handling	1 Watt
Radiation Coverage (Gain)	-1.0 dBic $\leq \emptyset < 75^{\circ}$
	-2.5 dBic $\leq \emptyset < 80^{\circ}$
	-4.5 dBic $\leq \emptyset < 85^{\circ}$
	-7.5 dBic $\leq \emptyset = 90^{\circ}$ (horizon)
	+5.0 dBic (nominal) @ $\emptyset = 0^{\circ}$ (zenith)
Amplifier	
Voltage	5VDC
Gain	26.5 dB
Noise Figure	2.0 dB maximum
Impedance	50 OHMS
VSWR	2.0:1 maximum output
Out of Band Rejection	35 dB minimum @ 1626 MHz
Power Handling	50 mA maximum
Lightning	DC grounded
Data Link Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power Rating	50 Watts
VHF Harmonic Rejection	80 dB typical
Mechanical	
Weight	0.6 lbs. maximum
Height	17.0″ maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	See order option
Environmental	
Temperature	-55° C to +85° C
Altitude	55,000'
Air Speed	350 Knots TAS
Federal Specifications	
RTCA Environmental	DO-160D
Environmental Category	[F2X]ACB[S(L)U(F,F1)T(C,C1,R)]
	XRFXXSXXXXXXXX[XX]C
FAA TSO	C37d, C38d, C144
RTCA MOPS	DO-186A, DO-228
Order Options	
Connector	
BNC	VHF port
TNC	GPS port
Color	
White	Standard
Gasket	

Gasket

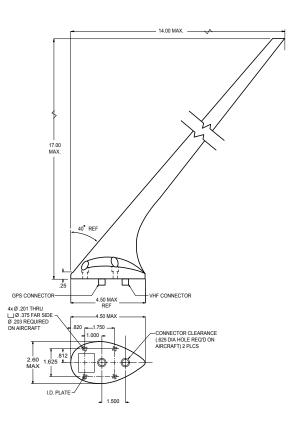
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## **COMDAT™ VHF/GPS Combination**

Frequency 1575.42 MHz 26.5dB Gain 118-137 MHz



All new design shares the popular CI 248 style. Combines both GPS and VHF Com functions in a single footprint. Same 4-hole mounting dimensions as popular VHF antennas. Provides separate connections—TNC for GPS and BNC for communication. Requires no other accessories for connection to panel-mount or handheld GPS/Comm receiver/transceiver "combos." Features a built-in notch filter for excellent performance in a single package, and a GPS amplifier designed specifically for Bendix-King™ GPS receivers. This patented design is perfect for helicopter applications, and has been tested under the toughest RTCA D0-160D environmental conditions. **P/N CI 2480-200** 



Comant Avionics & Accessories

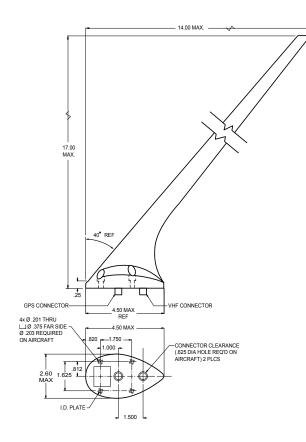
## **COMDAT™ VHF/GPS Combination**

Frequency 1575.42 MHz 17dB Gain 118-137 MHz



All new design shares the popular CI 248 style. Combines both GPS and VHF Com functions in a single footprint. Same 4-hole mounting dimensions as popular VHF antennas. Provides separate connections—TNC for GPS and BNC for communication. Requires no other accessories for connection to panel-mount or handheld GPS/Comm receiver/transceiver "combos." Features a built-in notch filter for excellent performance in a single package, and a GPS amplifier designed specifically for Garmin™ GPS receivers. This patented design is perfect for helicopter applications, and has been tested under the toughest RTCA D0-160D environmental conditions.

P/N CI 2480-201



Model	CI 2480-201 VHF/ GPS Combination
GPS Electrical	
Frequency	1575.42 ± 3 MHz
Polarization	RHCP
Axial Ratio (Boresight)	3 dB maximum
Power Handling	1 Watt
Radiation Coverage (Gain)	-1.0 dBic ≤ Ø < 75°
	-2.5 dBic $\leq \emptyset < 80^{\circ}$
	-4.5 dBic $\leq \emptyset < 85^{\circ}$
	-7.5 dBic $\leq \emptyset = 90^{\circ}$ (horizon)
	+5.0 dBic (nominal) @ $\emptyset = 0^{\circ}$ (zenith)
Amplifier	
Voltage	5vdc
Gain	17dB ± 3 dB
Noise Figure	2.0 dB maximum/
-	3.8 dB maximum
Impedance	50 OHMS
VSWR	2.0:1 maximum output
Out of Band Rejection	35 dB minimum @ 1626 MHz
Power Handling	50 mA maximum
Lightning	DC grounded
VHF Electrical	
Frequency	118 to 137 MHz
VSWB	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power Rating	50 Watts
VHF Harmonic Rejection	80 dB typical
Mechanical	
Weight	0.6 lbs. maximum
Height	17.0" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	See order option
Environmental	
Temperature	-55° C to +85° C
Altitude	55,000'
Air Speed	350 Knots TAS
Federal Specifications	
	DQ 100D
RTCA Environmental	
Environmental Category	[F2X]ACB[S(L)U(F,F1)T(C,C1,R)] XRFXXSXXXXXXXX[XX]C
FAA TSO	C37b, C38d, C129a
RTCA MOPS	D0-208
Order Options	
Connector	
BNC	VHF port
TNC	GPS port
Color	
White	Standard
Gasket	
Gasket	C248006-2 cork
	52.5500 £ 001K

Model	CI 2480-300 VHF/GPS/Orbco	mm
<b>GPS Electrical</b>		
Frequency	1575.42 ± 3 MHz	
Polarization	RHCP	
Axial Ratio (Boresight)	3 dB maximum	
Power Handling	1 Watt	
Radiation Coverage (Gain)		
	$-2.5 \text{ dBic} \le \emptyset < 80^\circ$	
	$-4.5 \text{ dBic} \le \emptyset < 85^\circ$	
	$-7.5 \text{ dBic} \le \emptyset = 90^{\circ}$	(horizon)  ) @ Ø = 0° (zenith)
	+5.0 dBic (nomina	1) @ Ø = 0 (zenith)
Amplifier		
Voltage	5VDC	
Gain	26.5 dB	
Noise Figure	2.0 dB maximum	
Impedance	50 OHMS	
VSWR	2.0:1 maximum ou	
Out of Band Rejection	35 dB minimum @	1626 MHz
Power Handling Lightning	50 mA maximum DC grounded	
Data Link Electrical	VHF	ORBCOMM
Data Link Electrical	VIIL	UNDCUIVIIVI
Frequency	118 to 137 MHz	137-150.5 MHz
VSWR	2.5:1 maximum	1.8:1 maximum
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Impedance Device Deting	50 OHMS 50 Watts	
Power Rating VHF Harmonic Rejection	80 dB typical	
Mechanical		
Weight	0.6 lbs. maximum 17.0" maximum	
Height Material	Molded radome	
Finish	Polyurethane ena	mol
Connector	See order option	inci
Environmental	ooo ordor option	
LINITONINGINA		
Temperature	-55° C to +85° C	
Altitude	55,000'	
Air Speed	350 Knots TAS	
Federal Specifications	5	
RTCA Environmental	DO-160D	
Environmental Category	[F2X]ACB[S(L)U(F,	F1)T(C,C1,R)]
	XRFXXSXXXXXXX	X[XX]C
FAA TSO	C37d, C38d, C144	
RTCA MOPS	DO-186A, DO-228	
Order Options		
Connector		
BNC	VHF port	
TNC	GPS port	
Color		
White	Standard	
Gasket		
0 1 /	0.	

Gasket

C248006-2 cork

## **COMDAT™ VHF/GPS/ Orbcomm**

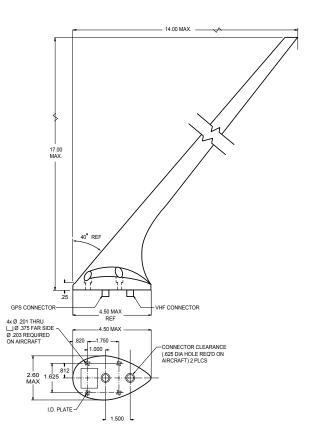
Frequency 1575.42 MHz 26.5dB Gain 118-137 MHz 137-150.5 MHz



This is the first "three-in-one" antenna of its type. In a single footprint, this antenna provides GPS, VHF, and Orbcomm reception. This saves precious airframe space, and minimizes installation costs. Plus, by bringing three antennas down to one, reduced drag and increased aesthetics are obvious benefits.

Designed in conjunction with Avidyne<sup>™</sup>, this antenna also has a built-in notch filter, eliminating the need for in-line filters or excessive spacing between VHF and GPS antennas.

The CI 2480-300 is designed for 26.5 dB gain GPS systems as seen with Bendix-King™, UPS™, and Universal Navigation™. **P/N CI 2480-300** 



**Dallas Avionics** 

## **COMDAT™ VHF/GPS/Orbcomm**

Frequency 1575.42 MHz 17dB Gain 118-137 MHz 137-150.5 MHz



This is the first "three-in-one" antenna of its type. In a single footprint, this antenna provides GPS, VHF, and Orbcomm reception. This saves precious airframe space, and minimizes installation costs. Plus, by bringing three antennas down to one, reduced drag and increased aesthetics are obvious benefits.

Designed in conjunction with Avidyne™, this antenna also has a built-in notch filter, eliminating the need for in-line filters or excessive spacing between VHF and GPS antennas.

The CI 2480-301 is designed for 17 dB gain GPS systems as required with Garmin™ GPS systems. **P/N CI 2480-301** 

## 14.00 MAX. , 17.00 MAX. 40° .25 HF CONNECTOR GPS CONNECTOR 4.50 MAX 4x Ø .201 THRU 4.50 MAX ON AIRCRAFT 820 \_1.750 -CONNECTOR CLEARANCE (.625 DIA HOLE REQ'D ON AIRCRAFT) 2 PLCS 1 000 81 2.60 MAX .625 I.D. PLATE 1.500

Model	CI 2480-301 VHF/GPS/Orbco	omm
GPS Electrical		
Frequency	1575.42 ± 3 MHz	
Polarization	RHCP	
Axial Ratio (Boresight)	3 dB maximum	
Power Handling	1 Watt	
Radiation Coverage (Gain)	-1.0 dBic $\leq \emptyset < 75$	0
	-2.5 dBic $\leq \emptyset < 80$	
	-4.5 dBic $\leq \emptyset < 85$	
	$-7.5 \text{ dBic} \le \emptyset = 90$	
	+5.0 dBic (nomina	al) @ $\emptyset = 0^{\circ}$
	(zenith)	
Amplifier		
Voltage	5VDC	
Gain	17 dB	
Noise Figure	3.8 dB maximum	
Impedance	50 OHMS	
VSWR	2.0:1 maximum ou	•
Out of Band Rejection	35 dB minimum @	2 1626 MHz
Power Handling	50 mA maximum	
Lightning	DC grounded	
Data Link Electrical	VHF	ORBCOMM
Frequency	118 to 137 MHz	137 to 150.5 MHz
VSWR	2.5:1 maximum	1.8:1 maximum
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Impedance	50 OHMS	
Power Rating	50 Watts	
VHF Harmonic Rejection	80 dB typical	
Mechanical		
Weight	0.6 lbs. maximum	
Height	17.0" maximum	
Material	Molded radome	
Finish	Polyurethane ena	imel
Connector	See order option	
Environmental		
Temperature	-55° C to +85° C	
Altitude	55,000'	
Air Speed	350 Knots TAS	
Federal Specifications		
RTCA Environmental	DO-160D	
Environmental Category	[F2X]ACB[S(L)U(F	,F1)T(C,C1,R)]
	XRFXXSXXXXXX	(X[XX]C
FAA TSO	C37d, C38d, C129a	3
RTCA MOPS	DO-186A, DO-208	
Order Options		
Connector		
BNC	VHF port	
TNC	GPS port	
Color		
White	Standard	
Gasket		
Gasket	C248006-2 cork	

Model	CI 401-220 GPS	
Passive Antenna		
Characteristics	(T <sub>A</sub> = -55° C to +70° C)	
Frequency	1575.42 ±3 MHz	
Polarization	RHCP	
Axial Ration	3.0 dB on bore. @ (zen.) maximum	
Power Handling	1.0 Watt	
Radiation Gain Patte	rn	
-1.0 dBic	$0 \le \emptyset < 75^{\circ}$	
-2.5 dBic	$75^{\circ} \leq \emptyset < 80^{\circ}$	
-4.5 dBic	$80^{\circ} \le \emptyset < 80^{\circ}$	
-7.5 dBic	$\emptyset = 90^{\circ}$ (Horizon)	
-5.0 dBic	Nominal @ Ø = 0° (zen.)	
Azimith Gain Variation	$\leq$ 3.0 dB @ $\geq$ 5° elevation	
Preamplifier		
Characteristics	(T <sub>A</sub> = -55° C to +70° C)	
Frequency	1575.42 ±3 MHz	
Output Impedance	50 OHMS (nominal)	
Output VSWR	1.7:1 maximum (RL -11.73 dB)	
Gain @ 1575.42 MHz	26.5 dB minimum/31.5 dB maximum	
Noise Figure	3.8 dB maximum	
Selectivity	-40 dB minimum Satcom (1626.5 MHz	
DC Voltage	4 to 24VDC	
DC Current	25 µa minimum/40 µa maximum	
Burnout Protection	30 dBm/1.0 CW unmodulated	
Mechanical/Environ	nent	
Weight	62 oz maximum	

# Weight6.2 oz. maximumConnectorTNC femaleAir Speed600 Knots @ 55,000'

#### **Federal Specifications**

Environmental Category	[F2X]
	XRFE
	-

FAA TSO

[F2X]ACB[S(L)T(C,C1,R)] XRFDXSXXXXX[XX]X[XXXX][1B]CX C144/DO-160D/DO-288

## GPS CI 401-220

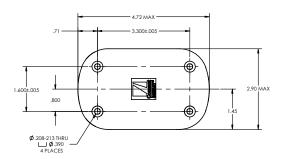
Frequency GPS 1575.42 MHz +/- 3 MHz

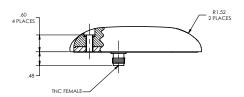


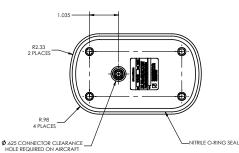
Completely redesigned 401 Series ARINC footprints GPS. This model contains an all-new, highly stable amplifier that offers great performance. Gain performance at 26.5 to 31.5 dB provides excellent Satcom rejection at 40 dB minimum. Plus, this antenna presents very low noise levels at 3.8 dB maximum.

The new design features a nickel plated aluminum base plate with an integral '0' ring for sealing.

What's more, the built-in voltage regulator allows the antenna to operate smoothly anywhere from 4 to 24VDC, affording a wide variety of applications such as Honeywell, Bendix-King<sup>™</sup>, L3 Avionics<sup>™</sup>, Universal Avionics<sup>™</sup> and UPS Navigation<sup>™</sup> systems. **P/N CI 401-220** 





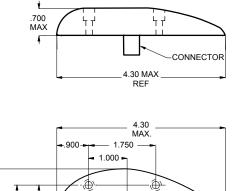


## **COMDAT™ GPS**

Frequency 1575.42 MHz 26.5dB Gain



The Cl405-200 is an exact replacement for Comant's Cl 405-7 with one important exception, this GPS antenna has been upgraded and certified to the new Cl44 TSO requirements. The antenna uses the latest in electronic design, meeting DO-160D and DO-228 MOPS. **P/N Cl 405-200** 



	<b>■</b> 1.000 <b>■</b>	
2.70 1.625 MAX.		
CONNECTOR CLEARANCE (.575 DIA HOLE REQ'D ON AIRCRAFT)		HRU HOLE 32 DIA x DEEP TO 375 HT FAR SIDE

Model	CI 405-200
Electrical	
Frequency	1575.42 ± 3 MHz
Polarization	RHCP
Axial Ratio (Boresight)	3 dB maximum
Power Handling	1 Watt
Radiation Coverage (Gain)	-1.0 dBic $\leq \emptyset < 75^{\circ}$
<b>2</b> · · · ·	-2.5 dBic $\leq \emptyset < 80^{\circ}$
	-4.5 dBic $\leq \emptyset < 85^{\circ}$
	-7.5 dBic $\leq \emptyset = 90^{\circ}$ (horizon)
	+5.0 dBic (nominal) @ $\emptyset = 0^{\circ}$ (zenith)
Amplifier	
Voltage	5VDC
Nominal Gain	26.5 dB
Noise Figure	2.0 dB (nominal) / 3.8 dB maximum
Impedance	50 OHMS
VSWR	1.7:1 maximum output
Out of Band Rejection	35 dB minimum @ 1626 MHz
Power Handling	50 µa maximum
Lightning	DC grounded
Mechanical	
Weight	0.3 lbs. maximum
Height	0.75" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	See order option
Footprint	Teardrop (compatible
	to standard VHF)
Environmental	
Temperature	-55° C to +85° C
Altitude	5,000'
Air Speed	600 Knots TAS
Federal Specifications	
RTCA Environmental	DO-160D
Environmental Category	[F2]ACB[S(L)U(F,F1)T(C,C1,R)]
	XRFDXSXXXXX[XX]X[XXXX][1B]CX
FAA TSO	C144
RTCA MOPS	D0-228
Order Options	
Connector	
TNC	CI 405-200
Color	
White	Standard

Model	CI 2680-100	
Preamp Characteristics	GPS	
Frequency	1575.42 ±3 MHz	
Output Impedance	50.0HMS (nominal)	
Output VSWR	1.7:1 maximum	
Gain @ 1575.42 ±3 MHz	26.5dB-31.5dB	
Noise Figure	3.8dB maximum	
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5	
DC Voltage	4-24VDC	
DC Current (Min./Max.)	25mA / 40mA	
Burnout Protection	30dBm/1.0 W	
(CW unmod.)		
Polarization	RHCP	
Radiation Gain Pattern	Hemispherical	
<b>RF Characteristics</b>	Orbcomm	
Frequency	137.00-150.05MHz	
VSWR	2.5:1	
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Power Rating	50 Watts	
Impedance	50 OHMS	
Mechanical / Environme	ntal	
Weight	1.25 lbs. maximum	
Connector	TNC, BNC	
Air Speed	325 KIAS maximum @ Sea Level	
Service Ceiling	35,000' maximum	
TSO	C144	
Environmental Category	[F2X]ACB[S(C,L,M)T(C1,Y,R)]	
	XSFXSXXXXX[XX]X[XXXX]XCX	
Passive Antenna Charac	teristics	

Refer to Installation Drawing for Passive Antenna Data

## **CI 2680-100**

GPS Frequency Orbcomm Frequency 1575.42 ± 3 MHz 137.00-150.05 MHz

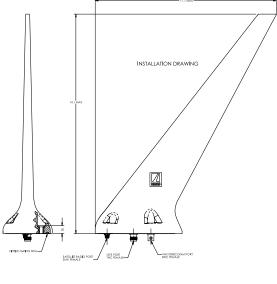


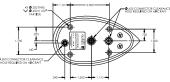
The Cl 2680-100 extends the lineage that began with the Cl 2480 Series ComDat<sup>®</sup>. This model features super tough construction for today's bigger and higher speed aircraft.

The antenna combines two functions into one. With two connectors on the base plate, GPS functions on TNC, and BNC is used for Orbcomm. This popular combination offers the best Orbcomm functionality for weather data in the cockpit.

Installers will save time and money by installing fewer antennas. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

Tough, new design features heavy duty nickel plated aluminum base plate with integral Nitrile 'O' ring, making it easier for pressurized aircraft installations. **P/N CI 2680-100** 





## CI 2680-104

GPS Frequency Orbcomm Frequency 1575.42 ± 3 MHz 137.00-150.05 MHz



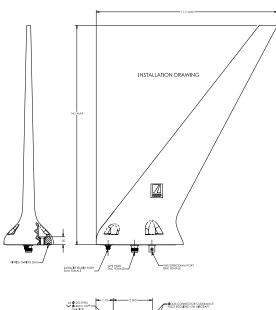
The Cl 2680-104 extends the lineage that began with the Cl 2480 Series  $ComDat^{(B)}$ . This model features super tough construction for today's bigger and higher speed aircraft.

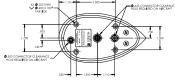
The antenna combines two functions into one. With two connectors on the base plate, GPS functions on TNC, and BNC is used for Orbcomm. This popular combination offers the best Orbcomm functionality for weather data in the cockpit.

Installers will save time and money by installing fewer antennas. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

Tough, new design features heavy duty nickel plated aluminum base plate with integral Nitrile 'O' ring, making it easier for pressurized aircraft installations.

#### P/N CI 2680-104





Model	CI 2680-104
Preamp Characteristics	GPS
Frequency	1575.42 ±3 MHz
Output Impedance	50.0HMS (nominal)
Output VSWR	1.7:1 maximum
Gain @ 1575.42 ±3 MHz	37.0dB-43.0dB
Noise Figure	3.8dB maximum
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5
DC Voltage	4-24VDC
DC Current (Min./Max.)	25mA / 40mA
Burnout Protection (CW unmod.)	30dBm/1.0 W
Polarization	RHCP
Radiation Gain Pattern	Hemispherical
<b>RF Characteristics</b>	Orbcomm
Frequency	137.00-150.05MHz
VSWR	2.5:1
Polarization	Vertical
Radiation Pattern	Omnidirectional
Power Rating	50 Watts
Impedance	50 OHMS
Machanical / Environme	ntol
Mechanical / Environme	וונמו
Weight	1.25 lbs. maximum
•	
Weight	1.25 lbs. maximum
Weight Connector	1.25 lbs. maximum TNC, BNC
Weight Connector Air Speed	1.25 lbs. maximum TNC, BNC 325 KIAS maximum @ Sea Level
Weight Connector Air Speed Service Ceiling	1.25 lbs. maximum TNC, BNC 325 KIAS maximum @ Sea Level 35,000' maximum

Refer to Installation Drawing for Passive Antenna Data

Model	CI 2680-200
Preamp Characteristics	GPS
Frequency	1575.42 ±3 MHz
Output Impedance	50.0HMS (nominal)
Output VSWR	1.7:1 maximum
Gain @ 1575.42 ±3 MHz	26.5dB-31.5dB
Noise Figure	3.8dB maximum
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5
DC Voltage	4-24VDC
DC Current (Min./Max.)	25mA / 40mA
Burnout Protection	30dBm/1.0 W
(CW unmod.)	
Polarization	RHCP
Radiation Gain Pattern	Hemispherical
<b>RF Characteristics</b>	VHF
Frequency	118-137 MHz
VSWR	2.5:1
Polarization	Vertical
Radiation Pattern	Omnidirectional
Power Rating	50 Watts
Impedance	50 OHMS
Mechanical / Environme	ntal
Weight	1.25 lbs. maximum
Connector	TNC, BNC
Air Speed	325 KIAS maximum @ Sea Level
Service Ceiling	35,000' maximum
TSO	C144, C37d, C38d

#### **Passive Antenna Characteristics**

**Environmental Category** 

Refer to Installation Drawing for Passive Antenna Data

[F2X]ACB[S(C,L,M)T(C1,Y,R)] XSFXSXXXXX[XX]X[XXXX]XCX

## CI 2680-200

GPS Frequency VHF Frequency 1575.42 ± 3 MHz 118-137 MHz

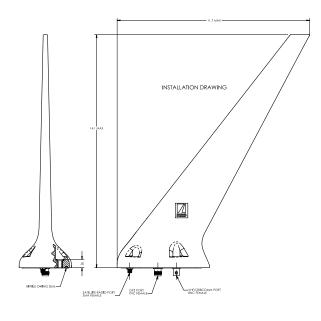


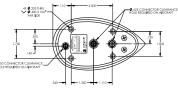
Combining GPS and VHF is where it all began for the popular ComDat<sup>®</sup> product line. Now, ComDats<sup>®</sup> feature super tough construction for today's bigger and higher speed aircraft. Plus, integral Nitrile '0' ring and nickel plated aluminum base plates make these new models easier to install on pressurized aircraft.

The Cl 2680-200 combines two functions into one. With two connectors on the base plate, GPS functions on TNC, and BNC is used for VHF Comm.

Installers will save time and money by installing fewer antennas. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

Built-in harmonic suppression filter limits VHF/GPS co-site interference. P/N CI 2680-200





## CI 2680-204

GPS Frequency VHF Frequency 1575.42 ± 3 MHz 118-137 MHz

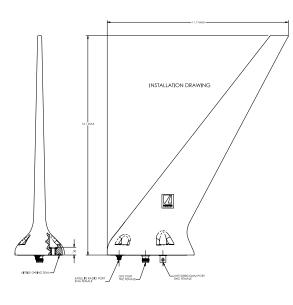


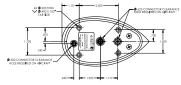
Combining GPS and VHF is where it all began for the popular ComDat<sup>®</sup> product line. Now, ComDats<sup>®</sup> feature super tough construction for today's bigger and higher speed aircraft. Plus, integral Nitrile '0' ring and nickel plated aluminum base plates make these new models easier to install on pressurized aircraft.

The Cl 2680-204 combines two functions into one. With two connectors on the base plate, GPS functions on TNC, and BNC is used for VHF Comm.

Installers will save time and money by installing fewer antennas. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

Built-in harmonic suppression filter limits VHF/GPS co-site interference. **P/N CI 2680-204** 





Model	CI 2680-204
Preamp Characteristics	GPS
Frequency	1575.42 ±3 MHz
Output Impedance	50.0HMS (nominal)
Output VSWR	1.7:1 maximum
Gain @ 1575.42 ±3 MHz	37.0dB-43.0dB
Noise Figure	3.8dB maximum
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5
DC Voltage	4-24VDC
DC Current (Min./Max.)	25mA / 40mA
Burnout Protection	30dBm/1.0 W
(CW unmod.)	
Polarization	RHCP
Radiation Gain Pattern	Hemispherical
<b>RF Characteristics</b>	VHF
Frequency	118-137 MHz
VSWR	2.5:1
Polarization	Vertical
Radiation Pattern	Omnidirectional
Power Rating	50 Watts
Impedance	50 OHMS
Mechanical / Environme	ntal
Weight	1.25 lbs. maximum
Connector	TNC, BNC
Air Speed	325 KIAS maximum @ Sea Level
Service Ceiling	35,000' maximum
TSO	C144, C37d, C38d
Environmental Category	[F2X]ACB[S(C,L,M)T(C1,Y,R)]
	XSFXSXXXXX[XX]X[XXXX]XCX
Passive Antenna Charact	teristics

Refer to Installation Drawing for Passive Antenna Data

Model

TSO

WIDUEI	GI 2000-20J
<b>Preamp Characteristics</b>	WSI-WX
Frequency	1544.5 MHz
Output Impedance	50.0HMS (nominal)
Output VSWR	1.67:1 maximum
Gain @ 1575.42 ±3 MHz	25.0dB-29.0dB
Noise Figure	0.9dB maximum
DC Voltage	4-5VDC
DC Current (Min./Max.)	45mA maximum
Polarization	RHCP
Radiation Gain Pattern	Hemispherical
<b>RF Characteristics</b>	VHF
Frequency	118-137MHz
VSWR	2.5:1
Polarization	Vertical
Radiation Pattern	Omnidirectional
Power Rating	50 Watts
Impedance	50 OHMS
Mechanical / Environme	ntal
Weight	1.25 lbs. maximum
Connector	TNC, BNC
Air Speed	325 KIAS maximum @ Sea Level
Service Ceiling	35,000' maximum

CI 2680-205

## Passive Antenna Characteristics

**Environmental Category** 

Refer to Installation Drawing for Passive Antenna Data

C37d, C38d

[F2X]ACB[S(C,L,M)T(C1,Y,R)]

XSFXSXXXXX[XX]X[XXXX]XCX

## CI 2680-205

WSI-WX Frequency VHF Frequency 1544.5 MHz 118-137 MHz

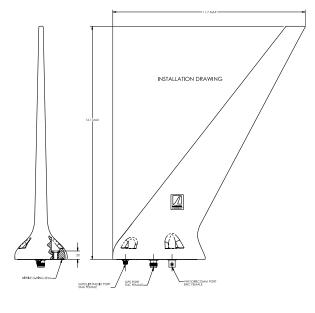


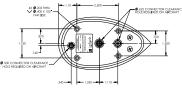
WSI and Comant have teamed to provide excellent weather data equipment. By combining standard features like GPS and VHF, WSI users will find it easy to add a WSI System because the ComDat<sup>®</sup> antenna is TSO'd, simplifying the installation process.

This model encompasses what the ComDat<sup>®</sup> concept is all about. Installers will save time and money by installing fewer antennas. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

The CI 2680-205 features super tough construction for today's bigger and higher speed aircraft. Integral Nitrile 'O' ring and a nickel plated aluminum base plate make this antenna easier to install on pressurized aircraft.

P/N CI 2680-205





## CI 2680-206

SAT-ENT Frequency VHF Frequency 2320.0-2345.0 MHz 118-137 MHz

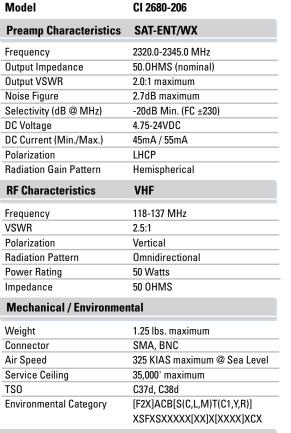


When adding a Satellite Radio or Weather Data system, two issues arise; The need to add another antenna, and, the antenna can't hold TSO. The answer? Replace the existing VHF Comm with a combined VHF/SAT-ENT ComDat<sup>®</sup>. The SAT-ENT function allows two different applications. It can be connected to popular Satellite Radio systems for music enjoyment. Or, connect it to popular Satellite Weather Data systems for up-to-the-minute weather updates in the cockpit.

This model encompasses what the ComDat<sup>®</sup> concept is all about. Installers will save time and money. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

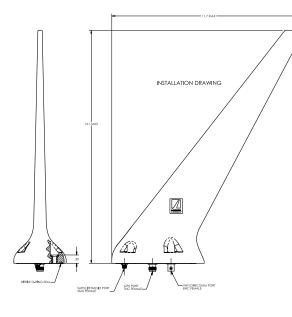
The Cl 2680-206 features super tough construction for today's bigger and higher speed aircraft.

P/N CI 2680-206



#### **Passive Antenna Characteristics**

Refer to Installation Drawing for Passive Antenna Data



Model	CI 2680-300		
Preamp Characteristics GPS			
Frequency	1575.42 ±3 MHz		
Output Impedance	50.0HMS (nominal)		
Output VSWR	1.7:1 maximum		
Gain @ 1575.42 ±3 MHz	26.5dB-31.5dB		
Noise Figure	3.8dB maximum		
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5		
DC Voltage	4-24VDC		
DC Current (Min./Max.)	25mA/40mA		
Burnout Protection	30dBm/1.0 W		
(CW unmod.)			
Polarization	RHCP		
Radiation Gain Pattern	Hemispherical		

<b>RF Characteristics</b>	VHF	Orbcomm
Frequency	118-137 MHz	137.00-150.05 MHz
VSWR	2.5:1	2.5:1
Polarization	Vertical	Vertical
Radiation Pattern	Omnidirectional	Omnidirectional
Power Rating	50 Watts	50 Watts
Impedance	50 OHMS	50 OHMS

#### **Mechanical / Environmental**

Weight	1.25 lbs. maximum
Connector	TNC, BNC
Air Speed	325 KIAS maximum @ Sea Level
Service Ceiling	35,000' maximum
TSO	C144, C37d, C38d
Environmental Category	[F2X]ACB[S(C,L,M)T(C1,Y,R)]
	XSFXSXXXXX[XX]X[XXXX]XCX

#### **Passive Antenna Characteristics**

Refer to Installation Drawing for Passive Antenna Data

## CI 2680-300

GPS Frequency VHF Frequency Orbcomm Frequency 1575.42 ± 3 MHz 118-137 MHz 137.00-150.05 MHz

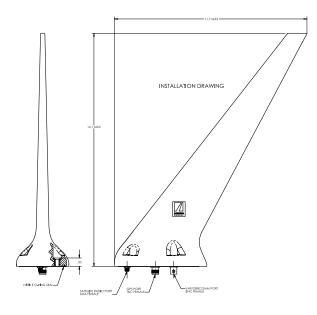


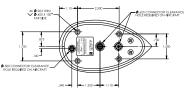
The Cl 2680-300 extends the lineage that began with the Cl 2480 Series  $ComDat^{\textcircled{B}}$ . This model features super tough construction for today's bigger and higher speed aircraft.

The antenna combines three separate functions into one. With two connectors on the base plate, GPS functions on TNC, and BNC is used for combined VHF/Orbcomm. VHF/Orbcomm requires the Avidyne DC50 Coupler®, allowing the VHF side to operate as Comm 2 or as Orbcomm TX/RX.

Installers will save time and money, placing one antenna instead of three. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

Built-in harmonic suppression filter limits VHF/GPS co-site interference. P/N CI 2680-300





## CI 2680-304

GPS Freqjuency VHF Frequency Orbcomm Frequency 1575.42 ± 3 MHz 118-137 MHz 137.00-150.05 MHz



The Cl 2680-304 extends the lineage that began with the Cl 2480 Series ComDat<sup>®</sup>. This model features super tough construction for today's bigger and higher speed aircraft.

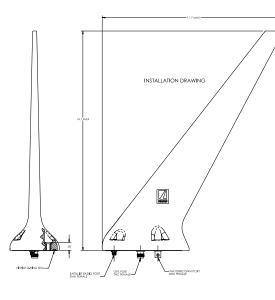
The antenna combines three separate functions into one. With two connectors on the base plate, GPS functions on TNC, and BNC is used for combined VHF/Orbcomm. VHF/Orbcomm requires the Avidyne DC50 Coupler®, allowing the VHF side to operate as Comm 2 or as Orbcomm TX/RX.

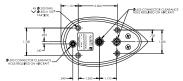
Installers will save time and money by installing fewer antennas. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

Built-in harmonic suppression filter limits VHF/GPS co-site interference. P/N CI 2680-304

Model	CI 2680-304	
<b>Preamp Characteristics</b>	GPS	
Frequency	1575.42 ±3 MHz	
Output Impedance	50.0HMS (nominal)	
Output VSWR	1.7:1 maximum	
Gain @ 1575.42 ±3 MHz	37.0dB-43.0dB	
Noise Figure	3.8dB maximum	
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5	
DC Voltage	4-24VDC	
DC Current (Min./Max.)	25mA / 40mA	
Burnout Protection	30dBm/1.0 W	
(CW unmod.)		
Polarization	RHCP	
Radiation Gain Pattern	Hemispherical	
<b>RF Characteristics</b>	VHF	Orbcomm
Frequency	118-137 MHz	137.00-150.05 MHz
VSWR	2.5:1	2.5:1
Polarization	Vertical	Vertical
Radiation Pattern	Omnidirectional	Omnidirectional
Power Rating	50 Watts	50 Watts
Impedance	50 OHMS	50 OHMS
Mechanical / Environme	ental	
Weight	1.25 lbs. maximum	
Connector	TNC, BNC	
Air Speed	325 KIAS maximum @ Sea Level	
Service Ceiling	35,000' maximum	
TSO	C144, C37d, C38d	
Environmental Category	[F2X]ACB[S(C,L,M)T(C1,Y,R)] XSFXSXXXXX[XX]X[XXXX]XCX	
5	XSFXSXXXXX[XX]X[)	KXXX]XCX

Refer to Installation Drawing for Passive Antenna Data





214.320.9770

Dallas Avionics

Model	CI 2680-400	
Preamp Characteristics	GPS	SAT-ENT/WX
Frequency	1575.42 ±3 MHz	2320.0- 2345.0 MHz
Output Impedance	50.0HMS (nominal)	50 OHMS (nominal)
Output VSWR	1.7:1 maximum	2.0:1 maximum
Gain @ 1575.42 ±3 MHz	26.5dB-31.5dB	N/A
Noise Figure	3.8dB maximum	2.7dB maximum
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5	-20dB Min. (FC±230)
DC Voltage	4-24VDC	4.75-24VDC
DC Current (Min./Max.)	25mA / 40mA	45mA / 55mA
Burnout Protection	30dBm/1.0 W	N/A
(CW unmod.)		
Polarization	RHCP	LHCP
Radiation Gain Pattern	Hemispherical	Hemispherical
<b>RF Characteristics</b>	VHF	
Frequency	118-137 MHz	
VSWR	2.5:1	
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Power Rating	50 Watts	
Impedance	50 OHMS	
Mechanical / Environm	ental	
Weight	1.25 lbs. maximum	
Connector	TNC, SMA, BNC	
Air Speed	325 KIAS maximum @	Sea Level

Connector TNC, SMA, BNC
Air Speed 325 KIAS maximum @ Sea Level
Service Ceiling 35,000' maximum
TSO C144, C37d, C38d
Environmental Category [F2X]ACB[S(C,L,M)T(C1,Y,R)]
XSFXSXXXXX[XX]X[XXXX]XCX

#### **Passive Antenna Characteristics**

Refer to Installation Drawing for Passive Antenna Data

## CI 2680-400

**GPS** Frequency SAT-ENT Frequency **VHF** Frequency

1575.42 ± 3 MHz 2320.0-2345.0 MHz 118-137 MHz

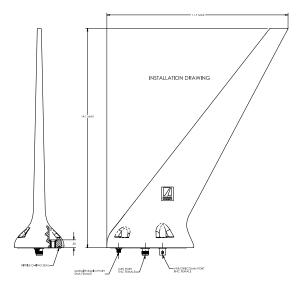


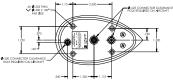
The CI 2680-400 combines three separate antenna functions into one. Three different connectors are on the base plate; TNC for GPS, SMA for popular satellite radio and/or weather data systems, and BNC for VHF. The SAT-ENT function allows two different applications. It can be connected to popular Satellite Radio systems for music enjoyment. Or, connect it to popular Satellite Weather Data systems for up-to-theminute weather updates in the cockpit.

This model encompasses what the ComDat® concept is all about. Installers will save time and money, placing one antenna instead of three. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

The CI 2680-404 features super tough construction for today's bigger and higher speed aircraft. Built-in harmonic suppression filter limits VHF/GPS co-site interference.

P/N CI 2680-400





## CI 2680-404

GPS Frequency SAT-ENT Frequency VHF Frequency 1575.42 ± 3 MHz 2320.0-2345.0 MHz 118-137 MHz

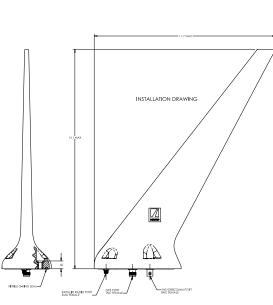


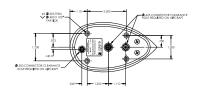
The Cl 2680-404 combines three separate antenna functions into one. Three different connectors are on the base plate; TNC for GPS, SMA for popular satellite radio and/or weather data systems, and BNC for VHF. The SAT-ENT function allows two different applications. It can be connected to popular Satellite Radio systems for music enjoyment. Or, connect it to popular Satellite Weather Data systems for up-to-theminute weather updates.

Installers will save time and money by installing fewer antennas. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

The CI 2680-404 features super tough construction for today's bigger and higher speed aircraft. Built-in harmonic suppression filter limits VHF/GPS co-site interference.

P/N CI 2680-404





Model	CI 2680-404	
Preamp Characteristics	GPS	SAT-ENT/WX
Frequency	1575.42 ±3 MHz	2320.0-2345.0 MHz
Output Impedance	50.0HMS (nominal)	50 OHMS (nominal)
Output VSWR	1.7:1 maximum	2.0:1 maximum
Gain @ 1575.42 ±3 MHz	37.0dB-43.0dB	N/A
Noise Figure	3.8dB maximum	2.7dB maximum
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5	-20dB Min. (FC±230
DC Voltage	4-24VDC	4.75-24VDC
DC Current (Min./Max.)	25mA / 40mA	45mA / 55mA
Burnout Protection (CW unmod.)	30dBm/1.0 W	N/A
Polarization	RHCP	LHCP
Radiation Gain Pattern	Hemispherical	Hemispherical
<b>RF Characteristics</b>	VHF	
Frequency	118-137 MHz	
VSWR	2.5:1	
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Power Rating	50 Watts	
Impedance	50 OHMS	
Mechanical / Environm	ental	
Weight	1.25 lbs. maximum	
Connector	TNC, SMA, BNC	
Air Speed	325 KIAS maximum @	Sea Level
Service Ceiling	35,000' maximum	
TSO	C144, C37d, C38d	
Environmental Category	[F2X]ACB[S(C,L,M)T(C	1,Y,R)]
	XSFXSXXXXX[XX]X[X	XXX]XCX
Passive Antenna Chara	cteristics	

Refer to Installation Drawing for Passive Antenna Data

Model	CI 2680-405	
Preamp Characteristics	GPS	WSI-WX
Frequency	1575.42 ±3 MHz	2320.0-2345.0 MHz
Output Impedance	50 OHMS (nominal)	50 OHMS (nominal)
Output VSWR	1.7:1 maximum	1.67:1 maximum
Gain @ 1575.42 ±3 MHz	26.5dB-31.5dB	N/A
Gain @ 154.5 ±3 MHz	N/A	25.0dB-29.0dB
Noise Figure	3.8dB maximum	0.9dB maximum
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5	-20dB Min. (FC±230)
DC Voltage	4-24VDC	4-5VDC
DC Current (Min./Max.)	25mA / 40mA	49mA maximum
Burnout Protection	30dBm/1.0 W	N/A
(CW unmod.)		
Polarization	RHCP	RHCP
Radiation Gain Pattern	Hemispherical	Hemispherical
<b>RF Characteristics</b>	VHF	
Frequency	118-137 MHz	
VSWR	2.5:1	
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Power Rating	50 Watts	
Impedance	50 OHMS	
Mechanical / Environm	ental	
Weight	1.25 lbs. maximum	
Connector	TNIC SMA DNC	

vveight	1.25 IDS. MAXIMUM
Connector	TNC, SMA, BNC
Air Speed	325 KIAS maximum @ Sea Level
Service Ceiling	35,000' maximum
TSO	C144, C37d, C38d
Environmental Category	[F2X]ACB[S(C,L,M)T(C1,Y,R)]
	XSFXSXXXXX[XX]X[XXXX]XCX
Service Ceiling TSO	35,000' maximum C144, C37d, C38d [F2X]ACB[S(C,L,M)T(C1,Y,R)]

#### **Passive Antenna Characteristics**

Refer to Installation Drawing for Passive Antenna Data

## CI 2680-405

GPS Frequency WSI-WX Frequency VHF Frequency 1575.42 ±3 MHz 1544.5 MHZ 118-137 MHz

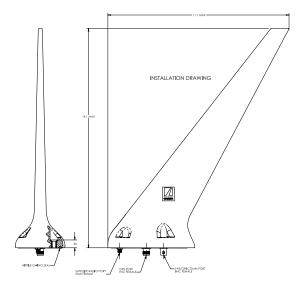


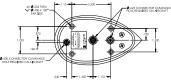
WSI and Comant have teamed to provide excellent weather data equipment. By combining standard features like GPS and VHF, WSI users will find it easy to add a WSI System because the ComDat<sup>®</sup> antenna is TSO'd, simplifying the installation process. Features 26.5dB gain GPS.

This model encompasses what the ComDat<sup>®</sup> concept is all about. Installers will save time and money by installing fewer antennas. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

The CI 2680-405 features super tough construction for today's bigger and higher speed aircraft. Built-in harmonic suppression filter limits VHF/GPS co-site interference. Integral Nitrile 'O' ring and a nickel plated aluminum base plate make this antenna easier to install on pressurized aircraft.

P/N CI 2680-405





## CI 2680-406

GPS Frequency WSI-WX Frequency VHF Frequency 1575.42 ± 3 MHz 1544.5 MHz 118-137 MHz

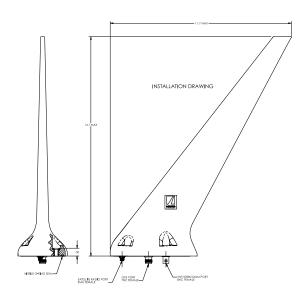


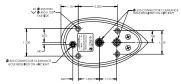
WSI and Comant have teamed to provide excellent weather data equipment. By combining standard features like GPS and VHF, WSI users will find it easy to add a WSI System because the ComDat<sup>®</sup> antenna is TSO'd, simplifying the installation process.

This model encompasses what the ComDat<sup>®</sup> concept is all about. Installers will save time and money by installing fewer antennas. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

The CI 2680-406 features super tough construction for today's bigger and higher speed aircraft. Built-in harmonic suppression filter limits VHF/GPS co-site interference. Integral Nitrile '0' ring and a nickel plated aluminum base plate make this antenna easier to install on pressurized aircraft.

P/N CI 2680-406





Model	CI 2680-406	
Preamp Characteristics	GPS	WSI-WX
Frequency	1575.42 ±3 MHz	1544.5 MHz
Output Impedance	50.0HMS (nominal)	50 OHMS (nominal)
Output VSWR	1.7:1 maximum	1.67:1 maximum
Gain @ 1575.42 ±3 MHz	37.0dB-43.0dB	N/A
Gain @ 154.5 ±3 MHz	N/A	25.0dB-29.0dB
Noise Figure	3.8dB maximum	0.9dB maximum
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5	-20dB Min. (FC±230)
DC Voltage	4-24VDC	4-5VDC
DC Current (Min./Max.)	25mA/40mA	49mA maximum
Burnout Protection	30dBm/1.0 W	N/A
(CW unmod.)		
Polarization	RHCP	RHCP
Radiation Gain Pattern	Hemispherical	Hemispherical
<b>RF Characteristics</b>	VHF	
Frequency	118-137 MHz	
VSWR	2.5:1	
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Power Rating	50 Watts	
Impedance	50 OHMS	
Mechanical / Environm	ental	
Weight	1.25 lbs. maximum	
Connector	TNC, SMA, BNC	
Air Speed	325 KIAS maximum @	Sea Level
Service Ceiling	35,000' maximum	
TSO	C144, C37d, C38d	
Environmental Category	[F2X]ACB[S(C,L,M)T(C1,Y,R)] XSFXSXXXXX[XX]X[XXXX]XCX	
Passive Antenna Chara	cteristics	

Refer to Installation Drawing for Passive Antenna Data

Model	CI 2680-500		
Preamp Characteristics	GPS	SAT-ENT/WX	
Frequency	1575.42 ±3 MHz	2320.0-2345.0 MHz	
Output Impedance	50.0HMS (nominal)	50 OHMS (nominal)	
Output VSWR	1.7:1 maximum	2.0:1 maximum	
Gain @ 1575.42 ±3 MHz	26.5dB-31.5dB	N/A	
Noise Figure	3.8dB maximum	2.7dB maximum	
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5	-20dB Min. (FC±230)	
DC Voltage	4-24VDC	4.75-24VDC	
DC Current (Min./Max.)	25mA / 40mA	45mA / 55mA	
Burnout Protection	30dBm/1.0 W	N/A	
(CW unmod.)			
Polarization	RHCP	LHCP	
Radiation Gain Pattern	Hemispherical	Hemispherical	
<b>RF</b> Characteristics	VHF	Orbcomm	
Frequency	118-137 MHz	137.00- 150.05 MHz	
VSWR	2.5:1	2.5:1	
Polarization	Vertical	Vertical	
Radiation Pattern	Omnidirectional	Omnidirectional	
Power Rating	50 Watts	50 Watts	
Impedance	50 OHMS	50 OHMS	

#### **Mechanical / Environmental**

Weight	1.25 lbs. maximum
Connector	TNC, SMA, BNC
Air Speed	325 KIAS maximum @ Sea Level
Service Ceiling	35,000' maximum
TSO	C144, C37d, C38d
Environmental Category	[F2X]ACB[S(C,L,M)T(C1,Y,R)]
	XSFXSXXXXX[XX]X[XXXX]XCX

#### **Passive Antenna Characteristics**

Refer to Installation Drawing for Passive Antenna Data

## CI 2680-500

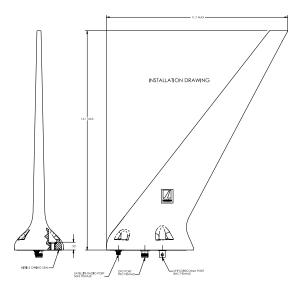
GPS Frequency SAT-ENT Frequency VHF Frequency Orbcomm Frequency 1575.42 ± 3 MHz 2320.0-2345.0 MHz 118-137 MHz 137.00-150.05 MHz

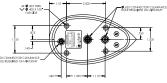


First of its kind, the CI 2680-500 combines four separate antenna functions into one. Three different connectors are on the base plate; TNC for GPS, SMA for popular satellite radio and/or weather data systems, and BNC for combined VHF/Orbcomm. The BNC VHF/Orbcomm requires the Avidyne DC50 Coupler<sup>®</sup>, allowing the VHF side to operate as Comm 2 or as Orbcomm TX/RX.

This model encompasses what the ComDat<sup>®</sup> concept is all about. Installers will save time and money, placing one antenna instead of four. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

The Cl 2680-500 features super tough construction for today's bigger and higher speed aircraft. Built-in harmonic suppression filter limits VHF/GPS co-site interference. **P/N Cl 2680-500** 





## CI 2680-504

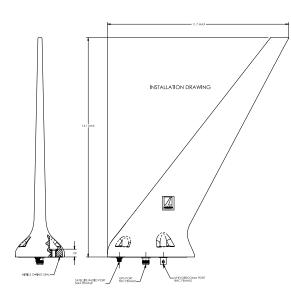
**GPS** Frequency SAT-ENT Frequency VHF Frequency **Orbcomm** Frequency 1575.42 ± 3 MHz 2320.0-2345.0 MHz 118-137 MHz 137.00-150.05 MHz

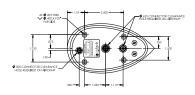


First of its kind, the CI 2680-504 combines four separate antenna functions into one. Three different connectors are on the base plate; TNC for GPS, SMA for popular satellite radio and/or weather data systems, and BNC for combined VHF/Orbcomm. The BNC VHF/Orbcomm requires the Avidyne DC50 Coupler®, allowing the VHF side to operate as Comm 2 or as Orbcomm TX/RX.

This model encompasses what the  ${\tt ComDat}^{\circledast}$  concept is all about. Installers will save time and money, placing one antenna instead of four. Pilots will appreciate the reduction in the number of antennas on their aircraft, and reduced drag, resulting in fuel economy and even higher speeds.

The CI 2680-504 features super tough construction for today's bigger and higher speed aircraft. Built-in harmonic suppression filter limits VHF/GPS co-site interference. P/N CI 2680-504





Model	CI 2680-504	
Preamp Characteristics	GPS	SAT-ENT/WX
Frequency	1575.42 ±3 MHz	2320.0-2345.0 MHz
Output Impedance	50.0HMS (nominal)	50 OHMS (nominal)
Output VSWR	1.7:1 maximum	2.0:1 maximum
Gain @ 1575.42 ±3 MHz	37.0dB-43.0dB	N/A
Noise Figure	3.8dB maximum	2.7dB maximum
Selectivity (dB @ MHz)	-35dB Min. @ 1626.5	-20dB Min. (FC±230)
DC Voltage	4-24VDC	4.75-24VDC
DC Current (Min./Max.)	25mA / 40mA	45mA / 55mA
Burnout Protection (CW unmod.)	30dBm/1.0 W	N/A
Polarization	RHCP	LHCP
Radiation Gain Pattern	Hemispherical	Hemispherical
<b>RF Characteristics</b>	VHF	Orbcomm
Frequency	118-137 MHz	137.00- 150.05 MHz
VSWR	2.5:1	2.5:1
Polarization	Vertical	Vertical
Radiation Pattern	Omnidirectional	Omnidirectional
Power Rating	50 Watts	50 Watts
Impedance	50 OHMS	50 OHMS
Mechanical / Environm	ental	
Weight	1.25 lbs. maximum	
Connector	TNC, SMA, BNC	
Air Speed	325 KIAS maximum @ Sea Level	
Service Ceiling	35,000' maximum	
TSO	C144, C37d, C38d	
Environmental Category	[F2X]ACB[S(C,L,M)T(C	(1,Y,R)]
	XSFXSXXXXX[XX]X[XXXX]XCX	
Passive Antenna Chara	cteristics	
		_

Refer to Installation Drawing for Passive Antenna Data

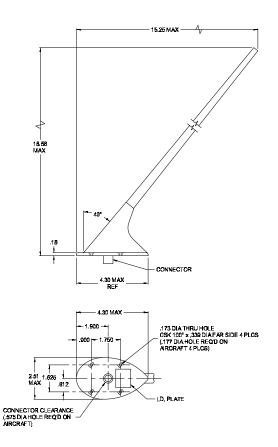
Model	CI 109 VHF Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	0.6 lbs. maximum
Height	18 9/16" maximum
Material	Cast housing/fiberglass whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS
Federal Specification	IS
RTCA Environmental	D0-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B12607-3 cork neoprene

## **VHF Communications**

Frequency 118-137 MHz



Exhibits excellent electrical characteristics and incorporates an aerodynamically shaped mounting base and radiator housing that matches the styling of the communication antennas used on the 1968-72 single engine Cessnas. The 109 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS. **P/N CI 109** 



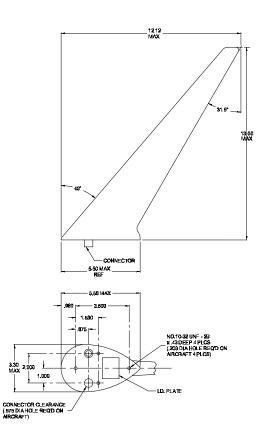
## **VHF Communications**

Frequency 118-137 MHz



Designed for large single or twin-engine aircraft. The antenna assembly enclosed in an aerodynamically shaped, injection molded polyester glass shell with internal components foamed in place for mechanical integrity. Reduced height convenient for mounting to the underside of an aircraft. The 119 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS.

P/N CI 119



Model	CI 119 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	1.2 lbs. maximum
Height	13.00″ maximum
Material	Valox 420
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	35,000′
Air Speed	350 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	D0-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C12704 cork neoprene

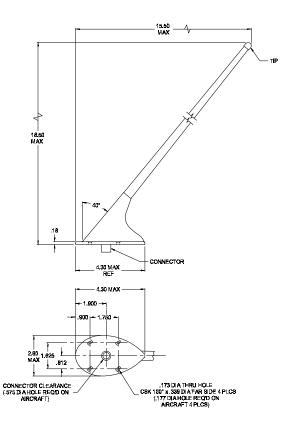
Frequency 118-137 MHz

Model	CI 121 VHF Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	18.50" maximum
Material	Cast housing/fiberglass whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS
Federal Specification	15
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C12607-3 cork neoprene



Similar to the Cl 109, the Cl 121 is smaller in diameter and lighter at only 0.5 pounds. Features a tapered glass laminate housing and die-cast aluminum base. Offers standard mounting and appearance to many Cessna communication antennas. The Cl 121 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS.





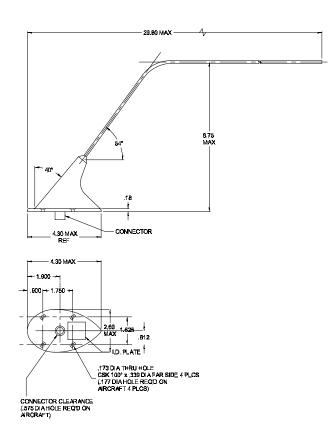
## **VHF Communications**

Frequency 118-137 MHz



Designed specifically for mounting to the underside of an aircraft providing excellent radiation coverage for air-to-ground communications. Bent configuration makes it ideally suited for helicopters and low wing aircraft. The CI 122 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS.

P/N CI 122



Model	CI 122 VHF Antenna	
Electrical		
Frequency	118 to 137 MHz	
VSWR	3.0:1	
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Impedance	50 OHMS	
Power	50 Watts	
Mechanical		
Weight	0.5 lbs. maximum	
Height	8.75" maximum	
Material	Cast housing/stainless whip	
Finish	Polyurethane enamel	
Connector	BNC	
Environmental		
Temperature	-55° C to +85° C	
Altitude	50,000'	
Air Speed	350 Knots TAS	
Federal Specification	IS	
RTCA Environmental	DO-160D	
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)] XWFDXSXXXXX[XX]X[XXX]XAX	
FAA TSO	C37d, C38d	
RTCA MOPS	D0-186A	
Order Options		
Connector		
BNC	Standard	
Color		
White	Standard	
Gasket		
Gasket	C12607-3 cork neoprene	

Model	CI 138 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	1.0 lbs. maximum
Height	13.00" maximum
Material	Valox 420
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	350 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	D0-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C13804 cork neoprene—standard

## **VHF Communications**

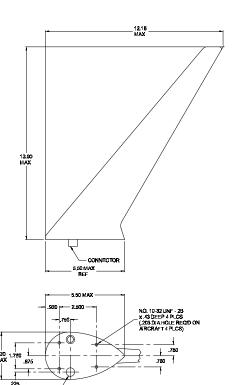
Frequency 118-137 MHz



Identical to the CI 119 with the exception of the mounting hole pattern and RF connector location which are compatible with Beechcraft mounting. RF connector is offset from the center line of the antenna. The CI 138 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS.

P/N CI 138

CONNECTOR CLEARANC (.675 DIA HOLE REQ D OF AIRCRAFT)



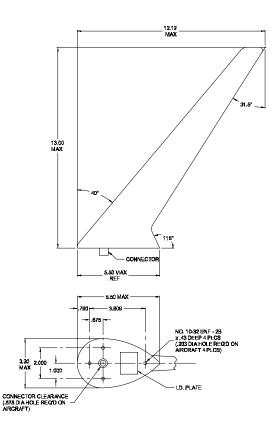
**Dallas Avionics** 

## **VHF Communications**

Frequency 118-137 MHz



Piper compatible mounting version of the Cl 119 with respect to the mounting hole pattern and RF connector location. The Cl 139 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A M0PS. **P/N Cl 139** 



Model	CI 139 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	1.25 lbs. maximum
Height	13.00" maximum
Material	Valox 420
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	350 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C13904 cork neoprene—standard

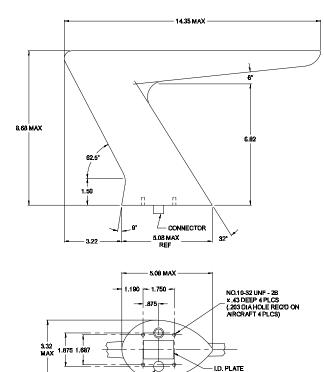
Model	CI 156 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	1.25 lbs. maximum
Height	8.68" maximum
Material	High density polyurethane
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Air Speed	350 Knots TAS
Order Options	
Connector	
BNC	Standard
Color	
White	Standard

## **VHF Communications**

Frequency 118-136 MHz



Matches the styling and mounting configuration used by Mooney aircraft up to 1977. Antenna assembly is cast in an aerodynamically shaped polyurethane shell featuring a very low profile. Reduced height makes it ideal for mounting to the underside of an aircraft. **P/N CI 156** 



CONNECTOR CLEARANCE (.575 DIA HOLE REQD ON AIRCRAFT)

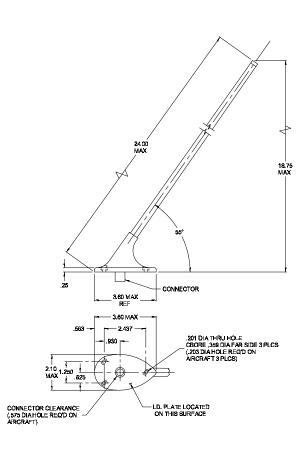
## **VHF Communications**

Frequency 118-137 MHz



High strength antenna designed as an improved direct replacement for the standard Cessna 3-hole mounting configuration. The Cl 175 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS.

#### P/N CI 175



Model	CI 175 VHF Antenna	
Electrical		
Frequency	118 to 137 MHz	
VSWR	2.5:1 maximum	
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Impedance	50 OHMS	
Power	50 Watts	
Mechanical		
Weight	0.5 lbs. maximum	
Height	18.75″ maximum	
Material	Cast housing/fiberglass whip	
Finish	Polyurethane enamel	
Connector	BNC (female)	
Environmental		
Temperature	-55° C to +85° C	
Altitude	50,000'	
Air Speed	250 Knots TAS	
Federal Specification	ns	
RTCA Environmental	DO-160D	
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]	
	XWFDXSXXXXX[XX]X[XXXX]XAX	
FAA TSO	C37d, C38d	
RTCA MOPS	D0-186A	
Order Options		
Connector		
BNC	Standard	
Color		
White	Standard	

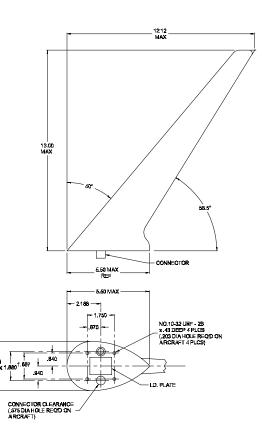
Model	CI 196 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	1.25 lbs. maximum
Height	13.00" maximum
Material	Valox 420
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	350 Knots TAS @ 25,000'
Federal Specification	S
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	DO-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B19604

## **VHF Communications**

Frequency 118-137 MHz



Identical to the CI 119. Matches the styling and mounting configuration of the late model Mooney 201/231/252 aircraft series starting in 1978. The CI 196 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS. **P/N CI 196** 



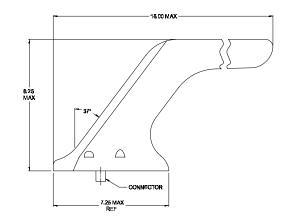
## **VHF Communications**

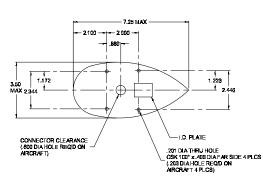
Frequency 118-137 MHz



Optimum antenna for high-performance jet aircraft. Only 8.25" high, yet provides good performance without the added drag of a taller blade-type communication antenna. Skydrol and rain erosion resistant. The optional Cl 211-L offers leading edge protection as shown in outline drawing. The Cl 211 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS.

P/N CI 211





Model	CI 211 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	30 Watts C.W.
Mechanical	
Weight	1.6 lbs. maximum
Height	8.25" maximum
Material	High density polyurethane
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	573 Knots TAS or 0.88 Mach @ 45,000'
Federal Specificatio	ns
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)] XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C21104 cork neoprene—standard
Leading Edge Protection	

Leading Edge Protection CI 211-L

# Avionics & Accessories C

Frequency 118-153 MHz

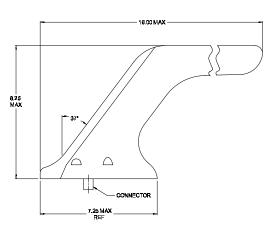
Model	CI 211-1 VHF Blade Antenna
Electrical	
Frequency	118 to 153 MHz
VSWR	2.75:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	30 Watts C.W.
Mechanical	
Weight	1.6 lbs. maximum
Height	8.25" maximum
Material	High density polyurethane
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	573 Knots TAS or 0.88 Mach @ 45,000
Federal Specificatio	ns
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
0,	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C21104 cork neoprene
Leading Edge Protec	tion

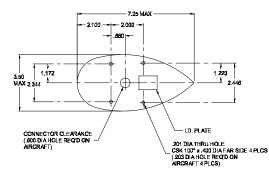
Leading Edge Protection CI 211-1-L



Intended for installation on long-range executive jet and turbo-prop aircraft capable of operating in Europe, Asia and South America where VHF communication is available over a much wider band. Only 8.5" high, yet provides good performance without the added drag of taller blade communication antennas. Skydrol and rain erosion resistant, the optional Cl 211-1-L offers leading edge protection as shown in outline drawing. The Cl 211-1 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements.

P/N CI 211-1



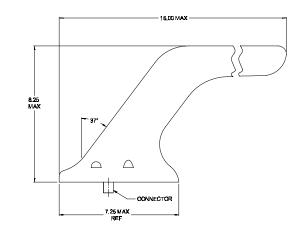


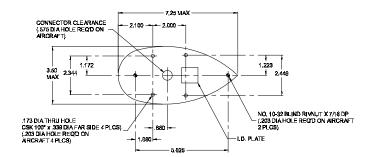
#### **VHF Extended Band**

Frequency 118-153 MHz



Intended for installation on long-range executive jet and turbo-prop aircraft capable of operating in Europe, Asia and South America where VHF communication is available over a much wider band. Only 8.25" high, yet provides good performance without the added drag of taller blade communication antennas. The Cl 211-16 is identical to the Cl 211-1 except it also includes one internal mounting hole forward and one internal mounting hole aft on the antenna center line as shown in outline drawing. The Cl 211-16 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements. **P/N Cl 211-16** 





Model	CI 211-16 VHF Blade Antenna
Electrical	
Frequency	118 to 153 MHz
VSWR	2.75:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	30 Watts C.W.
Mechanical	
Weight	1.6 lbs. maximum
Height	8.25" maximum
Material	High density polyurethane
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	573 Knots TAS or 0.88 Mach @ 45,000'
Federal Specification	IS
RTCA Environmental	D0-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
с,	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C21104 cork neoprene

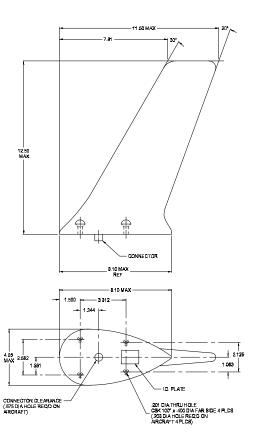
Model	CI 223 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.0:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	1.5 lbs. maximum
Height	12.5″ maximum
Material	High density polyurethane
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000′
Air Speed	600 Knots @ 25,000'
Federal Specification	S
RTCA Environmental	D0-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	DO-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C22310

#### **VHF Communications**

Frequency 118-137 MHz



Blade-type antenna with four mounting holes for external mounting on high-performance twins and jets. Very low-drag profile and clean aerodynamical shape. Suitable for mounting on top or bottom of the aircraft fuselage. The CI 223 has beenre-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS. **P/N CI 223** 

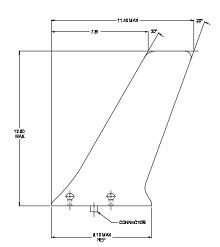


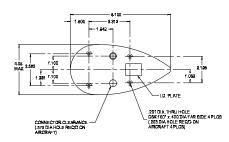
#### **VHF Communications**

Frequency 118-137 MHz



Blade-type antenna with four mounting holes for external mounting on high-performance twins and jets. Very low-drag profile and clean aerodynamical shape. Suitable for mounting on top or bottom of the aircraft fuselage. The Cl 223-1 is identical to the Cl 223 but with offset connector. The Cl 223-1 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS. **P/N Cl 223-1** 





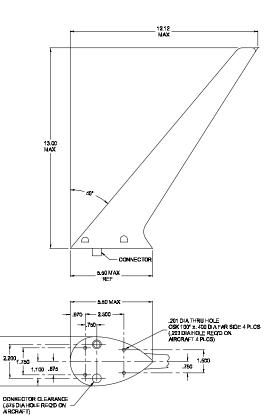
Model	CI 223-1 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.0:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	1.5 lbs. maximum
Height	12.5″ maximum
Material	High density polyurethane
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	600 Knots @ 25,000'
Federal Specification	ns
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
Environmental outegory	XWFDXSXXXXX[XX]XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C22310

Frequency 118-137 MHz

Model	CI 238 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	1.25 lbs. maximum
Height	13.00" maximum
Material	Fiberglass
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	350 Knots TAS @ 35,000'
Federal Specification	15
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	CI13804 cork neoprene—standard



Specifically designed for medium speed single and twin-engine aircraft. Features a low drag aerodynamic blade design with an overall height of 13". The CI 238 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS. **P/N CI 238** 



**Dallas Avionics** 

3.30 MAX

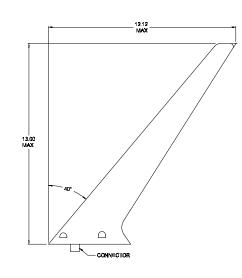
#### **VHF Communications**

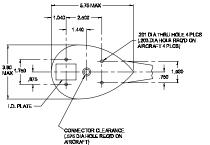
Frequency 118-137 MHz



Specifically designed for medium speed single and twin-engine aircraft. Features a low drag aerodynamic blade design with an overall height of 13 inches. The CI 238-1 is identical to the CI 238 with the exception of the mounting configuration. The CI 238-1 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS.

P/N CI 238-1





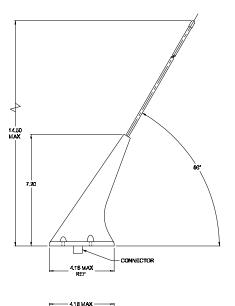
Model	CI 238-1 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	1.25 lbs. maximum
Height	13.00" maximum
Material	Fiberglass
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	350 Knots TAS @ 35,000'
Federal Specificatio	ns
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)] XWFDXSXXXXX[XX]X[XXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	CI13804 cork neoprene

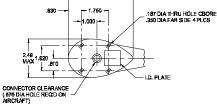
Frequency 118-137 MHz

Model	CI 270 VHF Blade Antenna	
Electrical		
Frequency	118 to 137 MHz	
VSWR	2.5:1 maximum	
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Impedance	50 OHMS	
Power	50 Watts	
Mechanical		
Weight	0.53 lbs. maximum	
Height	14.50" maximum	
Material	Polyester housing/fiberglass whip	
Finish	Polyurethane enamel	
Connector	BNC (female)	
Environmental		
Temperature	-55° C to +85° C	
Altitude	50,000′	
Air Speed	250 Knots TAS @ 35,000'	
Federal Specificatio	ns	
RTCA Environmental	DO-160D	
Environmental Category	[D2X]ACB[T(C,C1)U(F,F1)R(Y)]	
	XRFDXSXXXXX[XX]X[XXXX]XCX	
FAA TSO	C37d, C38d	
RTCA MOPS	D0-186A	
Order Options		
Connector		
BNC	Standard	
Color		
White	Standard	



The Cl 270 VHF communications antenna is designed for top or bottom installation on high performance single, twin and turbo engine aircraft. Tested to the RTCA's newest and toughest D0-160D standards, the Cl 270 is qualified to the C37d, C38d TSO. This antenna is a robust design ideal for both fixed and rotary wing applications. The Cl 270 matches popular footprints and designs. **P/N Cl 270** 



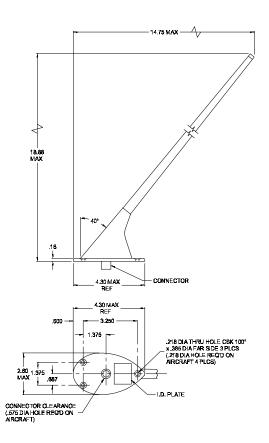


#### **VHF Communications**

Frequency 118-137 MHz



Weighs only 0.5 pounds. Features high strength fiberglass "stick" radiator and die-cast, 3-hole mounted aluminum base. Virtually identical in appearance to many Cessna communication antennas and most LORAN antennas. The CI 291 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS. **P/N CI 291** 

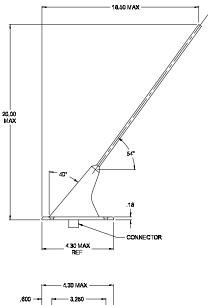


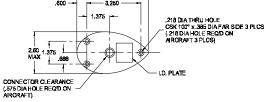
Model	CI 291 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	18.88″ maximum
Material	Cast housing/fiberglass whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS
Federal Specification	15
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
<b>U</b> ,	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C29205 cork neoprene

Frequency 118-137 MHz

Model	CI 292-1 VHF Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	20.0" maximum
Material	Cast housing/stainless whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS
Federal Specification	ns
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
с,	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C29205 cork neoprene

Designed specifically for top mounting on an aircraft. Provides excellent omnidirectional pattern coverage for all VHF aircraft communications. It is equivalent to the Cl 291 but features a straight tapered stainless steel radiator. The Cl 292-1 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS. **P/N Cl 292-1** 





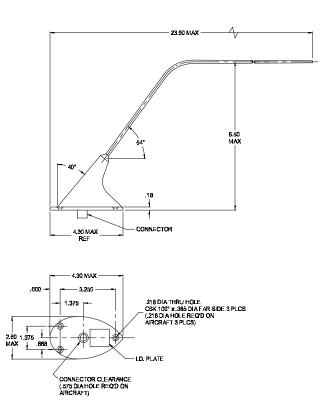
#### **VHF Communications**

Frequency 118-137 MHz



Identical to the CI 292-1 except that it provides a stainless steel bent-whip radiator which makes it ideal for helicopters and bottom mounting underneath fixed wing aircraft. The CI 292-2 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS.

P/N CI 292-2



Model	CI 292-2 VHF Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	3.0:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	8.50" maximum
Material	Cast housing/stainless whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS
Federal Specification	ns
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C29205 cork neoprene

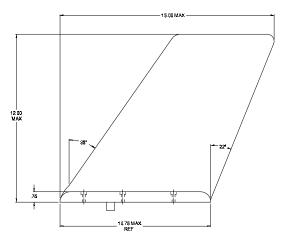
Model	CI 108 VHF Blade Antenna
Electrical	
Frequency	118 to 137 MHz
VSWR	2.5:1
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	2.5 lbs. maximum
Height	12.0" maximum
Material	High density polyurethane
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	600 Knots TAS @ 35,000'
Federal Specification	15
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)] XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C10810 cork neoprene—standard

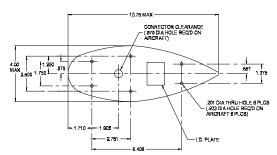
#### **VHF Communications**

Frequency 118-137 MHz



Designed for high-performance aircraft applications. Suitable for either top or bottom mounting. Solid Polyurethane construction for strength, reliability and durability. White Polyurethane finish is Skydrol and rain erosion resistant. The 108 Series has been re-tested and upgraded to the RTCA D0-160D environmental requirements and offers the 118 to 137 MHz frequency associated with D0-186A MOPS. Optional leading edge protection available with the CI 108-L. **P/N CI 108** 





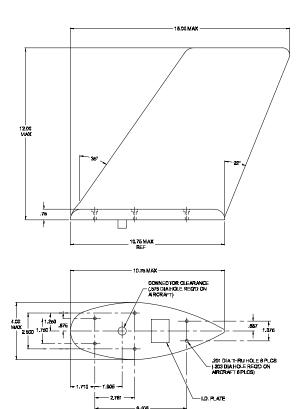
#### **VHF Extended Band**

Frequency 118-153 MHz



Designed for world-wide service where VHF communication is available over a wider band. Suitable for either top or bottom mounting. Solid Polyurethane construction for strength, reliability and durability. White Polyurethane finish is Skydrol and rain erosion resistant. The 108 Series has been re-tested and upgraded to the RTCA D0-160D environmental requirements. Optional leading edge protection available with the CI 108-1-L.

P/N CI 108-1



Model	CI 108-1 VHF Blade Antenna
Electrical	
Frequency	118 to 153 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	2.5 lbs. maximum
Height	12.0" maximum
Material	High density polyurethane
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	600 Knots TAS @ 35,000'
Federal Specification	ns
RTCA Environmental	D0-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
0,1	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	

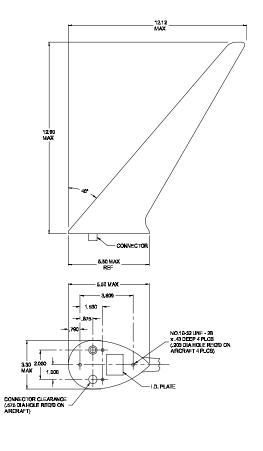
Model	CI 145 FM/2 Meter Communications
Electrical	
Frequency	148 to 174 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts.
Mechanical	
Weight	1.25 lbs. maximum
Height	12.90" maximum
Material	Valox
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	35,000'
Air Speed	350 Knots TAS @ 25,000'
Federal Specification	ns
RTCA	DO 160
FAA TSO	C37b, Class 1, C38b
Environmental Category Order Options	C2BLXXXXXXXXXXX
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C12704

#### FM/2 Meter

Frequency 148-174 MHz



Designed for single or twin-engine aircraft. Similar to the Cl 119 but covers the 148-174MHz FM/2 meter communication band. **P/N Cl 145** 

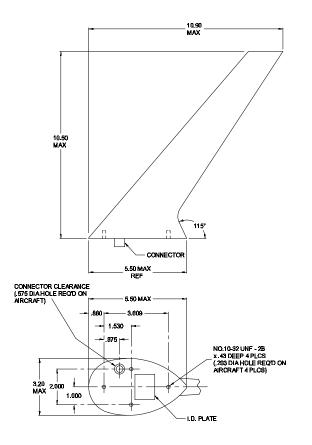


#### FM/2 Meter

Frequency 148-174 MHz



Similar to the CI 145, but is only 10.50" tall. This makes the CI 145-1 ideal for mounting on the underside of the fuselage. P/N CI 145-1



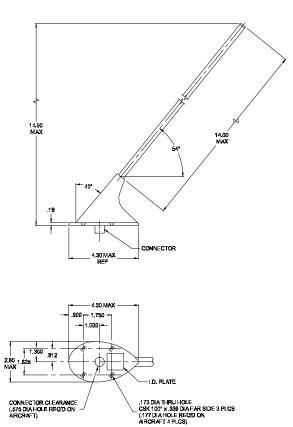
Model	CI 145-1 FM/2 Meter Communications
Electrical	
Frequency	148 to 174 MHz
VSWR	2.7:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	1.25 lbs. maximum
Height	10.50" maximum
Material	Valox
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	35,000′
Air Speed	350 Knots TAS @ 25,000'
Federal Specificatio	ns
RTCA	DO 160
FAA TSO	C37b, Class 1, C38b
Environmental Category	C2BLXXXXXXXXXXX
Order Options	
Connector	
BNC	Standard
Color	
White	Standard

Frequency 148-174 MHz

Model	Cl 177 FM/2 Meter Whip Antenna
Electrical	
Frequency	148 to 174 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts.
Mechanical	
Weight	0.5 lbs. maximum
Height	14.50″ maximum
Material	Die cast housing/fiberglass whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +55° C
Altitude	30,000′
Air Speed	450 Knots @ 25,000'
Federal Specification	15
RTCA	D0 138
FAA TSO	C37b, Class 1, C38b
Environmental Category	BAJXXXXXXXXXXX
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B12607



Designed for use over the public service FM frequency band. Features the popular standard 4 hole mounting with the radiating element enclosed in a high strength tapered glass laminate housing. **P/N CI 177** 



**Dallas Avionics** 

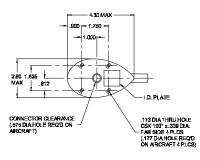
#### FM/2 Meter Extended Band

Frequency 138-174 MHz



Wider band version of the Cl 177 over a frequency band of 138 to 174 MHz. Improved bandwidth provides greater flexibility by optimizing features of some of the newer FM transceivers. Features a molded base with popular 4-hole mounting. Radiating element is enclosed in a high strength, tapered glass laminate housing. **P/N Cl 177-1** 

15.30 MAX 14.00 13.00 NAX 14.00 MAX 14.00 MAX 14.00 MAX 14.00 MAX 14.00 MAX 14.00 MAX 14.00 MAX



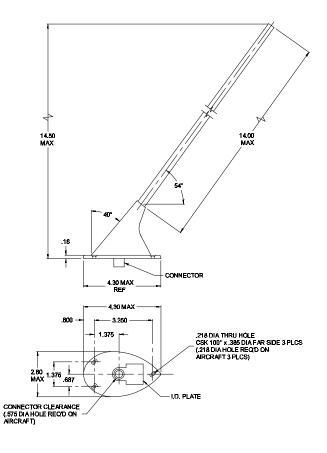
Model	Cl 177-1 FM/2 Meter Extended Band
Electrical	
Frequency	138 to 174 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts.
Mechanical	
Weight	0.5 lbs. maximum
Height	15.30″ maximum
Material	Die cast housing/fiberglass whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +55° C
Altitude	30,000'
Air Speed	450 Knots @ 25,000'
Federal Specification	ns
RTCA	DO 138
FAA TSO	C37b, Class 1, C38b
Environmental Category Order Options	BAJXXXXXXXXXX
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B12607-3
Uaskel	D12007-3

Frequency 148-174 MHz

Model	CI 177-3 FM/2 Meter Antenna
Electrical	
Frequency	148 to 174 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	14.50" maximum
Material	Die cast housing/fiberglass whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +55° C
Altitude	30,000′
Air Speed	450 Knots @ 25,000'
Federal Specification	15
RTCA	DO 138
FAA TSO	C37b, Class 1, C38b
Environmental Category	BAJXXXXXXXXXXX
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C29205



Designed for use over the public service FM frequency band. Features the popular standard 3-hole mounting with the radiating element enclosed in a high strength tapered glass laminate housing. **P/N CI 177-3** 



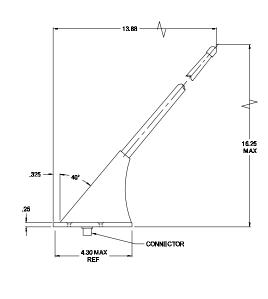
#### **Data Link**

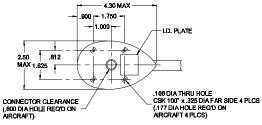
Frequency 137-150 MHz



The CI 177-4 is specifically designed for use with Weather/Data or WX systems, bringing e-mail and weather data to the cockpit. The CI 177-4 links to the ORBCOMM™ LEO satellite constellation to bring real time weather and e-mail within easy reach of any pilot. This was built for pure electrical performance. Its 1.5:1 VSWR provides the best reception of any airborne antenna of its kind.

P/N CI 177-4





Model	CI 177-4 Data Link/WX
Electrical	
Frequency	137 to 150 MHz
VSWR	1.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedence RF	50 OHMS
Power RF	50 Watts
Mechanical	
Weight	0.4 lbs. maximum
Height	16.25" maximum
Material	Valox housing/fiberglass whip
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	55,000'
Air Speed	250 Knots TAS @ 25,000'
Federal Specifications	
RTCA Environmental	DO-160D
Environmental Category	[D2]-ACB[(C,C1,R)(F,F1,U)] XRFDXSX[X]XXX[XXX]X[XXXX]XCA
FAA TSO	C37d, C38d
RTCA MOPS	DO-186A
Order Options	00-100A
Connector	
BNC	Standard
Color	
White	Standard

Model	CI 177-13 FM/2 Meter Extended Band
Electrical	
Frequency	148 to 174 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	14.50" maximum
Material	Die cast housing/fiberglass whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +55° C
Altitude	30,000'
Air Speed	450 Knots @ 25,000'
Federal Specification	S
RTCA	D0 138
FAA TSO	C37b, Class 1, C38b
Environmental Category <b>Order Options</b>	BAJXXXXXXXXXXX
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	C29205

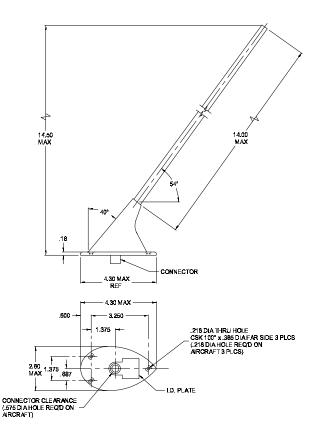
#### FM/2 Meter Extended Band

Frequency 138-174 MHz



Wider band version of the Cl 177 with 2.5:1 VSWR or better over a frequency band of 138 to 174 MHz. Improved bandwidth provides greater flexibility by optimizing features of some of the newer FM transceivers. Features a molded base with popular 3-hole mounting. Radiating element is enclosed in a high strength, tapered glass laminate housing.

P/N CI 177-13



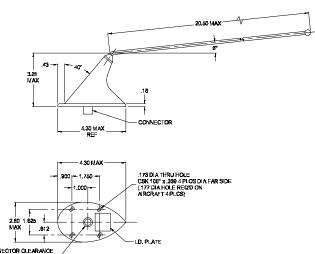
#### **AM/FM Receive**

Frequency 88-108 MHz 550-1600 KHz



AM/FM receive antenna offers a unique low profile design using standard 4-hole mounting used on many VHF type antennas. Bent whip configuration is ideally suited for underbelly and helicopter installations. **P/N CI 222** 

Model	CI 222 AM/FM Antenna
Electrical	
Frequency	88 to 108 MHz & 550 to 1600 KHz
VSWR	3.5:1 maximum @ mid-band
Polarization	Slant/linear
Radiation Pattern	Omnidirectional—receive only
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	5.5" maximum
Material	Cast zinc housing/stainless whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Air Speed	450 Knots TAS @ 25,000'
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B12607-3



CONNECTOR CLEARANCE (.575 DIA HOLE RECIDION ARCRAFT)

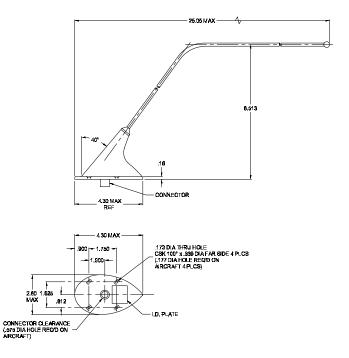
Model	CI 222-1 FM Antenna
Electrical	
Frequency	88 to 108 MHz
VSWR	3.0:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	8.5" maximum
Material	Cast zinc housing/stainless whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Air Speed	450 Knots TAS @ 25,000'
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B12607-3

#### **FM Receive**

Frequency 88-108 MHz



Efficient FM radio bent whip antenna is higher performance and moderately higher profile version of the Cl 222. Features 4-hole mounting, suitable for either top or bottom airframe installations or fixed wing/rotorcraft. DC grounded. **P/N Cl 222-1** 

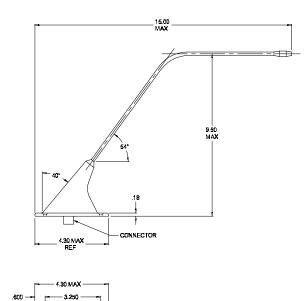


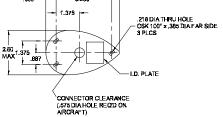
#### FM/2 Meter Extended Band

Frequency 138-174 MHz



Designed to provide 2.5:1 VSWR or better over a bandwidth of 138 to 174 MHz. Features a high-strength die-cast 3-hole aluminum base. Radiating element is a bent-whip tapered stainless steel rod suitable for bottom mounting. The Cl 292-3 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements. **P/N Cl 292-3** 





Model	CI 292-3 FM Extended Band Bent Whip
Electrical	
Frequency	138 to 174 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	50 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	9.50" maximum
Material	Die cast housing/stainless whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +70° C
Altitude	50,000′
Air Speed	250 Knots TAS @ 25,000'
Federal Specificatio	ns
RTCA Environmental	DO-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
	XWFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B29205

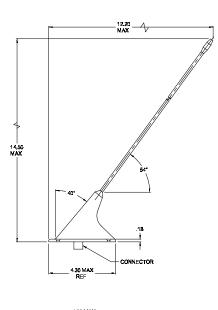
FM/2 Meter Extended Band
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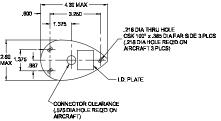
Frequency 136-174 & 138-174 MHz

Model	Cl 292-4 FM Extended Band Whip Antenna
Electrical	
Frequency	138 to 174 MHz & 136 to 174 MHz
VSWR	2.5:1 @ 138 to 174 MHz
	3.0:1 @ 136 to 174 MHz
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS (nominal)
Power	50 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	14.50" maximum
Material	Die cast housing/stainless whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +70° C
Altitude	50,000'
Air Speed	250 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	D0-160D
Environmental Category	[D2X]ACB[R(C,C1)U(F,F1)]
σ,	XWFDXSXXXXX[XX]X[XXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	DO-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B29205



Wider band covers popular VHF and FM frequencies. Designed to provide 2.5:1 VSWR or better over a bandwidth of 138-174 MHz. Features a high-strength die-cast 3-hole aluminum base. Radiating element is a straight tapered stainless steel rod suitable for bottom mounting. Overall height only 14.5 inches with BNC connector as standard. The Cl 292-4 has been re-tested and upgraded to the new RTCA D0-160D environmental requirements **P/N Cl 292-4** 





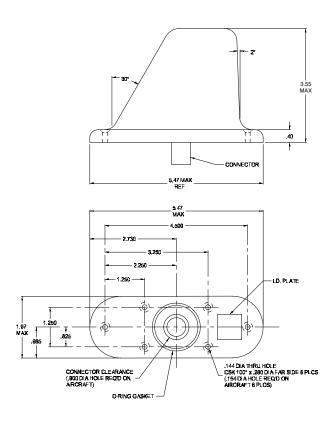
#### **UHF Radiotelephone**

Frequency 806-960 MHz & 960-1220 MHz



Wide band vertically polarized/omnidirectional antenna designed for high performance aircraft over the UHF/L band of frequencies from 806 to 960 MHz. Low profile blade-type construction features 6-hole mounting, low drag, low weight, wide band/high efficiency electrical performance, DC grounding for lightning protection and Skydrol/rain erosion resistance.

#### P/N CI 105-20 Series



	Cl 105-20 Series Radiotelephone
Electrical	
Frequency	806 to 960 MHz & 960 to 1220 MHz
VSWR	1.5:1 894 to 896 MHz transmit
	1.5:1 849 to 851 MHz receive
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda$ / 4 stub
Impedance RF	50 OHMS
Resistance DC	Short circuit
Power RF	100 Watts maximum average
Mechanical	
Weight	0.40 lbs. maximum
Height	3.55" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	See order options
Environmental	
Temperature	-55° C to +85° C
Altitude	70,000'
Air Speed	600 Knots TAS @ 25,000'
Federal Specificatio	ns
RTCA	DO 160C
Environmental Category	[E1]-AX(CLY)XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
FAA TSO	C66b, C74b
RTCA MOPS Order Options	DO-144, DO-189
Connector	
BNC	CI 105-20
TNC	CI 105-22
С	CI 105-23
HN	CI 105-24
N	CI 105-25
Color	
White	Standard
Orange	Minimum order required
Gasket	

Model	Cl 105-30 Series Radiotelephone
Electrical	
Frequency	806 to 960 MHz; 960 to 1220 MHz
VSWR	1.5:1 806 to 960 MHz
	2.5:1 960 to 1220 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance RF	50 OHMS
Resistance DC	Short circuit
Power RF	100 Watts maximum average
Mechanical	
Weight	0.33 lbs.
Height	3.00″
Material	Molded radome
Finish	Polyurethane enamel
Connector	See order options
Environmental	
Temperature	-55° C to +85° C
Altitude	70,000′
Air Speed	600 Knots @ 25,000'
Federal Specification	ns
RTCA	D0 160C
Environmental Category	[E1]-AX(CLY)XXXXXXXXXXXXXX[XXXX][X]X
FAA TSO	C66b, C74b
RTCA MOPS	DO-144, DO-189
Order Options	
Connector	
BNC	CI 105-30
TNC	CI 105-32
С	CI 105-33
HN	CI 105-34
N	CI 105-35
Color	
White	Standard
Orange	Minimum order required
Gasket	
Gasket	70445 'O' Ring

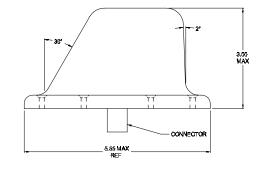
#### **UHF Radiotelephone**

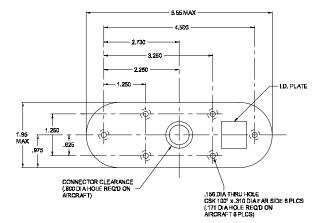
Frequency 806-960 MHz & 960-1220 MHz



Similar to the Cl 105-20 series but offers slightly lower profile. Wide band vertically polarized/omnidirectional antenna designed for high performance aircraft over the UHF/L band of frequencies. Features 6-hole mounting, low drag, low weight, wide band/high efficiency electrical performance, DC grounding for lightning protection and Skydrol/rain erosion resistance.

P/N CI 105-30 Series



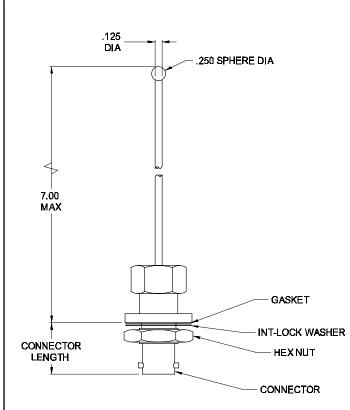


#### **UHF Radiotelephone**

Frequency 450-470 MHz Series



Stub antenna designed to withstand the environment associated with the underside of an aircraft. Antenna radiator is mechanically captivated and sealed against leakage. All exposed metal surfaces are nickel-plated for corrosion resistance and long service. See Order Options for connector choices. P/N CI 106



Model	CI 106 UHF Radiotelephone
Electrical	
Frequency	450 to 470 MHz
VSWR	1.5:1 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance RF	50 OHMS
Power RF	50 Watts average
Mechanical	
Weight	0.18 lbs. maximum
Height	7.0" maximum
Material	Nickel plated brass
Finish	Tin nickel alloy
Connector	BNC (female)
Environmental	
Air Speed <b>Order Options</b>	250 Knots TAS
Connector	
BNC	CI 106
TNC	CI 106-2
С	CI 106-3
N	CI 106-5

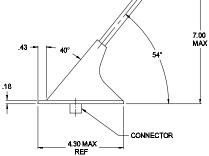
Model	CI 177-20 UHF Antenna
Electrical	
Frequency	450 to 470 MHz
VSWR	2.0:1 MHz
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power RF	30 Watts
Mechanical	
Weight	0.5 lbs. maximum
Height	7.00" maximum
Material	Die cast housing/fiberglass whip
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +55° C
Altitude	30,000'
Air Speed	450 Knots TAS @ 25,000'
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B12607

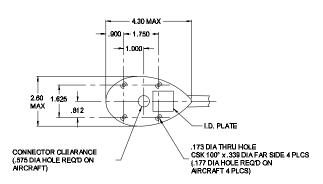
#### **UHF Radiotelephone**

Frequency 450-470 MHz



A rugged monopole antenna particularly well-suited to the harsh environments experienced on the underside of an aircraft. Features standard 4-hole mounting, die-cast metal base and radiator encased in glass laminate housing. **P/N CI 177-20** 





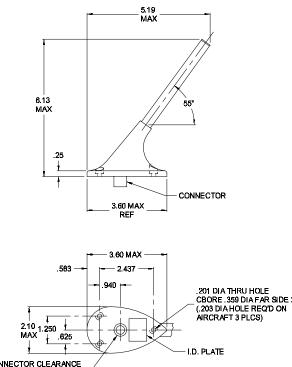
#### **UHF Radiotelephone**

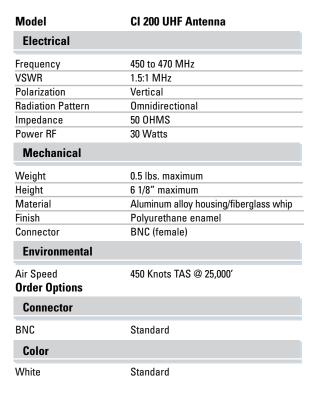
Frequency 450-470 MHz



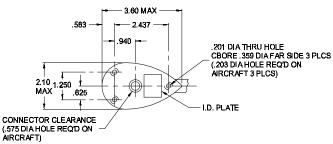
Rugged monopole antenna particularly well-suited to the harsh environments experienced on the underside of an aircraft. Features a very compact 3-hole mounted die-cast aluminum base with the radiator encased in a glass laminate housing.

P/N CI 200









214.320.9770

Model	CI 271 Series UHF Antenna
Electrical	
Frequency	400 to 430 MHz
VSWR	1.8:1 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of λ/4 stub
Impedance	50 OHMS
Power RF	50 Watts average
Mechanical	
Weight	0.18 lbs. maximum
Height	7.00" maximum
Material	Nickel plated brass
Finish	Tin nickel alloy
Connector	BNC (female)
Environmental	
Air Speed	450 Knots TAS @ 25,000'
Order Options	
Connector	P/N
BNC	CI 271
TNC	CI 271-2
С	CI 271-3
N	CI 271-5

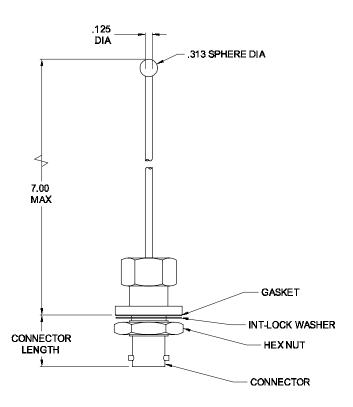
#### **UHF Radiotelephone**

Frequency 400-430 MHz



Stub antenna designed to withstand the harsh environments associated with the underside of an aircraft. Antenna radiator is mechanically captivated and is sealed against leakage. All exposed metal surfaces are nickel-plated for corrosion resistance and long service. Cl 271 mounts through single 0.600". BNC connector is standard. See Order Options for connector choices.

#### P/N CI 271 Series

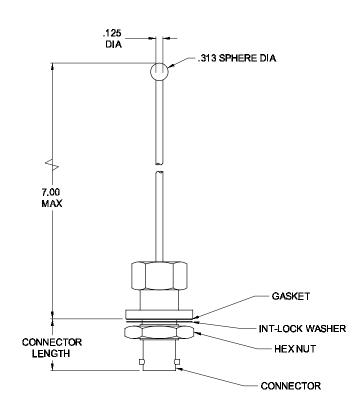


#### **UHF Radiotelephone**

Frequency 403-512 MHz



Identical to CI 271 except its electrical performance is specified over the frequency range of 403 to 512 MHz in various band segments with VSWR limits shown. Stub antenna designed to withstand the harsh environments associated with the underside of an aircraft. Antenna radiator is mechanically captivated and is sealed against leakage. All exposed metal surfaces are nickel-plated for corrosion resistance and long service. CI 273 mounts through single 0.600". BNC connector is standard. Other connectors available. See Order Options chart. **P/N CI 273 Series** 



Model	CI 273 Series UHF Antenna
Electrical	
Frequency	430 to 512 MHz
VSWR	3.0:1 @ 403 to 512 MHz
	3.0:1 @ 403 to 430 MHz
	2.0:1 @ 403 to 470 MHz
	3.0:1 @ 470 to 512 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance	50 OHMS
Power RF	50 Watts average
Mechanical	
Weight	0.18 lbs. maximum
Height	7.0″ maximum
Material	Nickel plated brass
Finish	Tin nickel alloy
Connector	BNC (female)
Environmental	
Air Speed	250 Knots TAS @ 25,000'
Order Options	
Connector	P/N
BNC	CI 273
TNC	CI 273-2
С	CI 273-3
N	CI 273-5

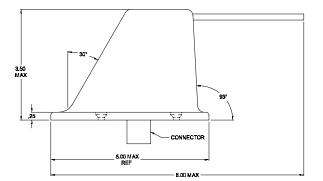
Model	CI 275 Series UHF Antenna
Electrical	
Frequency	406 to 512 MHz
VSWR	2.0:1 maximum
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance	50 OHMS
Power RF	50 Watts average
Mechanical	
Weight	0.5 lbs. maximum
Height	3.5″ maximum
Material	Lexan housing
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +70° C
Altitude	50,000'
Air Speed	600 Knots TAS @ 25,000'
Order Options	
Connector	P/N
BNC	CI 275
TNC	CI 275-2
C	CI 275-3
Ν	CI 275-5
Connector	
White	Standard

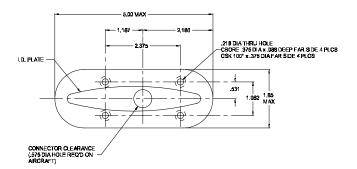
#### **UHF Radiotelephone**

Frequency 406-512 MHz



Wide band UHF antenna designed for high-performance aircraft over the full frequency range of 406-512 MHz. Low profile, blade-type antenna is encased in a low drag, low weight molded body to ensure high reliability. The CI 275 comes standard with BNC connector. Other connectors available. See order options chart. **P/N CI 275 Series** 





#### **UHF Radiotelephone**

Frequency 400-960 MHz

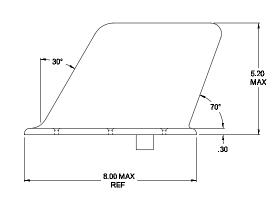


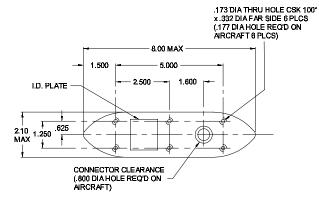
UHF blade antenna design for high performance aircraft over the full frequency range of 400-960 MHz. Low profile, low drag, light weight antenna is packaged in a molded body and metal mounting base to ensure stable performance in tough environmental conditions. Features vertically polarized/omnidirectional pattern, extremely wide band/high efficient electrical performance. DC grounding for lightning protection, 6-hole mounting.

P/N CI 285

Avionics & Accessories

Comant





Model	Cl 285 Series UHF Wide Band Antenna
Electrical	
Frequency	400 to 960 MHz
VSWR	2.0:1 maximum
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda$ / 4 stub
Impedance	50 OHMS
Power RF	50 Watts average
Mechanical	
Weight	0.75 lbs. maximum
Height	5.20" maximum
Material	Lexan
Finish	Polyurethane enamel
Connector	N (female)
Environmental	
Temperature	-55° C to +70° C
Altitude	50,000'
Air Speed	600 Knots TAS @ 25,000'
Order Options	
Connector	
N	CI 285 standard
Connector	
White	Standard

108

Model	CI 306 Series UHF Antenna
Electrical	
Frequency	800 to 870 MHz
VSWR	1.5:1 maximum
Polarization	Vertical
Radiation Pattern	Equivalent of λ/4 stub
Impedance	50 OHMS
Power RF	50 Watts average
Mechanical	
Weight	0.15 lbs. maximum
Height	4.0" maximum
Material	Nickel plated brass
Finish	Tin nickel alloy
Connector	BNC (female)
Environmental	
Temperature	-55° C to +70° C
Altitude	25,000'
Air Speed	250 Knots TAS @ 25,000'
Order Options	
Connector	P/N
BNC	CI 306
TNC	CI 306-2
С	CI 306-3
Ν	CI 306-5

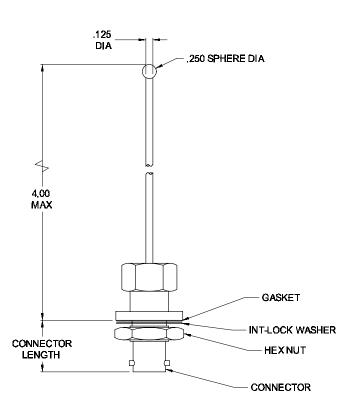
#### **UHF Radiotelephone**

Frequency 800-870 MHz



Stub-type antenna tuned for the 800-870 MHz radio telephone band. Intended for use on low-flying aircraft and helicopters. Cl 306 available with BNC connector and mounts through a single 0.600" diameter hole. Cl 306-5 available with a type N connector in which a mounting hole diameter of 0.800" is required. See Order Options for connector choices.

P/N CI 306 Series

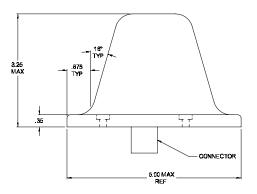


#### **UHF Radiotelephone**

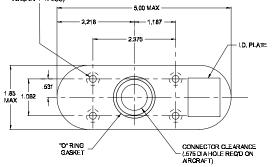
Frequency 806-960 MHz & 1030-1090 MHz



L Band/UHF blade antenna designed for high performance aircraft. Low profile, light weight antenna and is packaged in a molded body with metal mounting base to ensure stable environmental performance and resistance to vibration, rain erosion and cleaning solvents. Features vertical/omnidirectional pattern, wide band/high efficiency electrical performance and DC grounding for lightning protection. See Order Options for connector choices. **P/N CI 310 Series** 



.201 DIA THRU HOLE CBORE .359 DIA FAR SIDE 4 PLCS (.203 DIA HOLE REQ'D ON AIRCRAFT 4 PLCS)



Model	Cl 310 Series L Band Blade Antenna
Electrical	
Frequency	806 to 960 MHz & 1030 to 1090 MHz
VSWR	1.75:1 @ 806 to 960 MHz
	1.5:1 @ 1030 to 1090 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda$ / 4 stub
Impedance	50 OHMS
Power RF	50 Watts
Mechanical	
Weight	0.32 lbs. maximum
Height	3.25″ maximum
Material	High density polyurethane
Finish	Polyurethane enamel
Connector	See order options
Environmental	
Temperature	-55° C to +70° C
Altitude	50,000'
Air Speed	600 Knots TAS @ 25,000'
Federal Specification	ns
RTCA Environmental	D0-160D
Environmental Category	[A2F2]-AC[CLMY]XRFXXSXXXXXXXXX
FAA TSO	C74c, Class 1A
RTCA MOPS	D0-144
Order Options	
Connector	P/N
BNC	CI 310-20
TNC	CI 310-22
С	CI 310-23
N	CI 310-25
Color	
White	Standard
Gasket	
Gasket	B29205

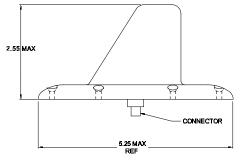
## UHF "L" Band Navigation

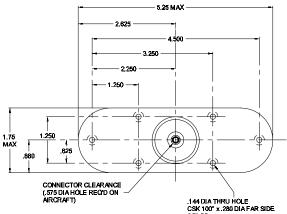
Frequency 960-1220 MHz & 1030-1090 MHz

Model	CI 100 DME / Transponder
Electrical	
Frequency	960 to 1220 MHz & 1030 to 1094 MHz
VSWR	1.6:1 960 to 1220 MHz
	1.4:1 1030 to 1090 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance RF	50 OHMS
Resistance DC	Open circuit
Power RF	2.5 kW @ 55,000'
Mechanical	
Weight	0.3 lbs. maximum
Height	2.55″ maximum
Material	Die cast A380 aluminum alloy
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-54° C to +55° C
Altitude	45,000'
Air Speed	Mach 2.5
Federal Specification	15
RTCA Environmental	DO-138
Environmental Category	AASXXXXXXXXX
FAA TSO	C66a, C74c
RTCA MOPS	DO-144, DO-189
Order Options	
Connector	P/N
BNC	CI 100
TNC	CI 100-2
С	CI 100-3
HN	CI 100-4
N	CI 100-5
Color	
White	Standard
Gasket	
Gasket	B10006



All Metal Blade DME/Transponder antenna designed and developed for Mach 2 military aircraft. Design is unique in that blade and mounting base are die-cast as one piece with no dielectric material in the airstream. Standard six-hole mounting configuration. See Order Options for available connectors. P/N CI 100 Series





.144 DIA THRU HOLE CSK 100° x.280 DIA FAR SIDE 6 PLCS

**Dallas Avionics** 

## UHF "L" Band Navigation

#### **Transponder**

Frequency 1030-1090 MHz

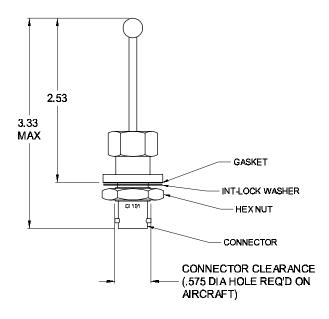


Transponder antenna with top loaded stub monopole. Antenna radiator is mechanically captivated and is machined from solid brass for impact resistance. Contact points are made from beryllium copper. Metallic parts are plated with bright nickel for corrosion protection. Mounts through a single 0.600" diameter mounting hole.

P/N CI 101

Avionics & Accessories

Comant



Model	CI 101 Transponder	
Electrical		
Frequency	1030 to 1090 MHz	
VSWR	1.3:1 1030 MHz	
	1.25:1 1090 MHz	
Polarization	Vertical	
Radiation Pattern	Equivalent of $\lambda/4$ stub	
Impedance RF	50 OHMS	
Resistance DC	Open circuit	
Power RF	1.0 kW peak average	
Mechanical		
Weight	0.06 lbs. maximum	
Height	3.33″ maximum	
Material	Brass	
Finish	Tin nickel alloy	
Connector	BNC (female)	
Environmental		
Temperature	-54° C to +55° C	
Altitude	30,000'	
Air Speed	300 Knots TAS	
Federal Specification	ns	
RTCA Environmental	DO-138	
Environmental Category	BAJXXXXXXXXX	_
FAA TSO	C74c	
RTCA MOPS	D0-144	
Order Options		
Connector		
BNC	Standard	

112

Model	CI 105 DME / Transponder
Electrical	
Frequency	960 to 1220 MHz & 1030 to 1094 MHz
VSWR	1.5:1 960 to 1220 MHz
	1.3:1 1030 to 1090 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance RF	50 OHMS
Resistance DC	Open circuit
Power RF	2.5 kW peak.
Mechanical	
Weight	0.24 lbs. maximum
Height	3.23" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-54° C to +55° C
Altitude	70,000′
Air Speed	400 Knots TAS @ 25,000'
Federal Specification	ıs
RTCA Environmental	DO-160C
Environmental Category	[E1]-B[CLY]XRHXXXXXXXXXXXXXXXXXX
FAA TSO	C66b, C74c
RTCA MOPS	DO-144, DO-189
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B10505

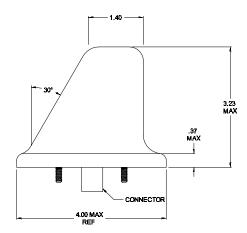
#### **DME/Transponder**

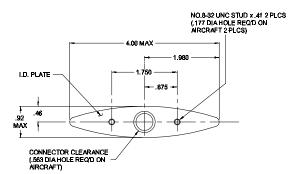
Frequency 960-1220 MHz & 1030-1090 MHz



Broadband and rugged antenna designed for DME or transponder use. Antenna assembly encased in a glass reinforced polyester molded shell. Standard two stud mounting configuration. Cl 105 includes a BNC connector.





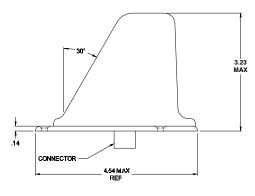


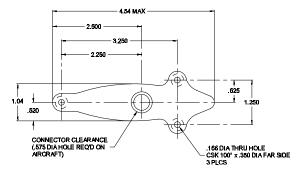
## **DME/Transponder**

Frequency 960-1220 MHz & 1030-1090 MHz



Identical to the CI 105 in operating characteristics. Antenna configuration specifically designed for external applications using a three hole flange mounting. Includes a BNC connector. **P/N CI 105-3** 





Model	CI 105-3 DME / Transponder
Electrical	
Frequency	960 to 1220 MHz & 1030 to 1090 MHz
VSWR	1.5:1 960 to 1220 MHz
	1.25:1 1030 to 1090 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance RF	50 OHMS
Resistance DC	Open circuit
Power RF	2.5 kW peak
Mechanical	
Weight	0.24 lbs. maximum
Height	3.23″ maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-54° C to +55° C
Altitude	70,000′
Air Speed	400 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	D0-160C
Environmental Category	[E1]-B[CLY]XRHXXXXXXXXXXXXXXXXXX
FAA TSO	C66c, C74c
RTCA MOPS	DO-144, DO-189
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B10535

Model	Cl 105-6 DME / Transponder Cl 105-7 DME / Transponder
Electrical	
Frequency	960 to 1220 MHz & 1030 to 1090 MHz
VSWR	1.5:1 960 to 1220 MHz
	1.3:1 1030 to 1090 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance RF	50 OHMS
Resistance DC	Open circuit
Power RF	2.5 kW peak.
Mechanical	
Weight	0.24 lbs. maximum
Height	3.31″ maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	See order options
Environmental	
Temperature	-54° C to +55° C
Altitude	70,000′
Air Speed	400 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	D0-160C
Environmental Category	[E1]-B[CLY]XRHXXXXXXXXXXXXXXXXX
FAA TSO	C66b, C74c
RTCA MOPS	DO-144, DO-189
Order Options	
Connector	P/N
BNC	CI 105-6
С	CI 105-7
Color	
White	Standard
Gasket	

214.320.9770

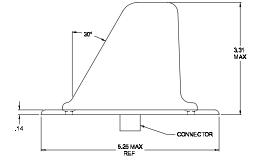
## **DME/Transponder**

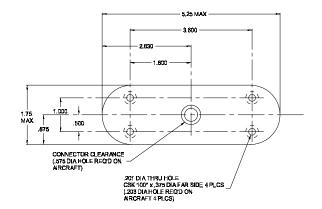
Frequency 960-1220 MHz & 1030-1090 MHz



Both are similar in electrical performance to Comant's Cl 105, except they provide the popular 4-hole external mounting typical on some turbo-prop and jet aircraft. **P/N Cl 105-6 &** 

CI 105-7



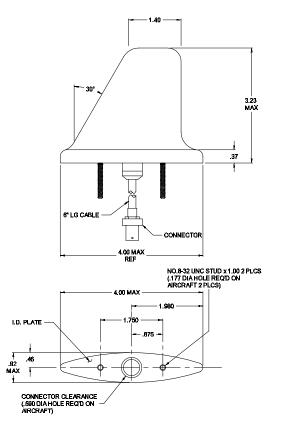


#### **DME/Transponder**

Frequency 960-1220 MHz & 1030-1090 MHz



Broadband and rugged antenna designed for DME or transponder use. Antenna assembly encased in a glass reinforced polyester molded shell. Cl 105-9 comes standard with a 6" extension coax cable and BNC connector. This model offers standard two stud mounting, where the studs are extended to 1" in length. **P/N Cl 105-9** 



Model	CI 105-9 DME / Transponder
Electrical	
Frequency	960 to 1220 MHz & 1030 to 1090 MHz
VSWR	1.5:1 960 to 1220 MHz
	1.3:1 1030 to 1090 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of λ/4 stub
Impedance RF	50 OHMS
Resistance DC	Open circuit
Power RF	2.5 kW peak
Mechanical	
Weight	0.24 lbs.
Height	3.23″
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC (female) on 6" coax cable
Environmental	
Temperature	-54° C to +55° C
Altitude	70,000'
Air Speed	400 Knots TAS @ 25,000'
Federal Specification	ns
RTCA Environmental	DO-160C
Environmental Category	[E1]-B[CLY]XRHXXXXXXXXXXXXXXXXX
FAA TSO	C66c, C74c
RTCA MOPS	DO-144, DO-189
Order Options	
Connector	
BNC	With integral 6" coax cable
Color	-
White	Standard
Gasket	
Gasket	B10505

DME/	Transponder
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Frequency 960-1220 MHz & 1030-1090 MHz

Model	Cl 105-16 DME Transponder
Electrical	
Frequency	960 to 1220 MHz & 1030 to 1090 MHz
VSWR	1.5:1 960 to 1220 MHz
	1.3:1 1030 to 1090 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance RF	50 OHMS
Resistance DC	Open circuit
Power RF	2.5 kW peak
Mechanical	
Weight	0.2 lbs.
Height	3.23″
Material	Molded radome
Finish	White federal standard 595
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	70,000′
Air Speed	400 Knots TAS @ 25,000'
Federal Specification	S
RTCA Environmental	D0-160C
Environmental Category	[E1]-XX[C,C1,F,F1,R]XRFXXSXX
	[XX][XX]X[XXX]X[XXXX]XXX
FAA TSO	C66c, C74d
RTCA MOPS	DO-144, DO-189
Order Options	
Connector	
BNC	Standard
Color	

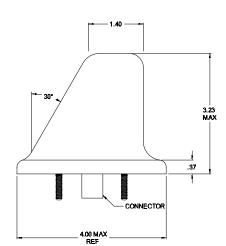
White

Standard



Broadband and rugged antenna designed for DME or transponder use. The CI 105-16 was designed specifically for the Honeywell Bendix-King™ KA60. This unit offers the extended length, two stud mounting found on the KA60. Tested to the tougher DO-160D environmental requirements, this antenna offers the best in ruggedness and performance.

#### P/N CI 105-16



I.D. PLATE CONNECTOR CLEARANCE (563 DIA HOLE RECTO ON ARCRAFT 2 PLCS) 1.D. PLATE CONNECTOR CLEARANCE (563 DIA HOLE RECTO ON ARCRAFT)

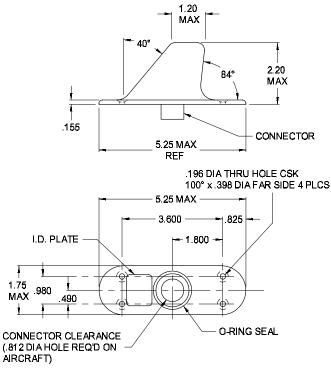
#### **DME/Transponder**

Frequency 960-1220 MHz & 1030-1090 MHz



All metal, low profile antenna is designed for business jet and commercial high speed aircraft. With a popular four hole mount and connector with open path to ground, this antenna is ideally suited for those aircraft equipped with standard transponders and Mode S transponders. Tough, one piece construction provides 175 lbs. side load capability, guarding against breakage from ground equipment. Moisture failure is prevented with completely sealed construction.

Refer to the CI 110-41 or the CI 110-61 for similar antennas offering DC short circuit. P/N CI 110-40



Model	Cl 110-40 Series DME / Transponder
Electrical	
Frequency	960 to 1220 MHz & 1030 to 1090 MHz
VSWR	1.7:1 960 to 1220 MHz
	1.4:1 1000 to 1100 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance RF	50 OHMS
Resistance DC	Open circuit
Power RF	3 kW peak 100 watts average
Mechanical	
Weight	0.25 lbs. maximum
Height	2.20" maximum
Material	Die cast A380 aluminum alloy
Finish	Polyurethane enamel
Connector	See order options
Environmental	
Temperature	-55° C to +85° C
Altitude	70,000′
Air Speed	600 Knots TAS @ 25,000'
Federal Specification	15
RTCA Environmental	DO-160C
Environmental Category	[F2X]ACB[S](L)U(F,F1)T(C,C1,R)]
	XRFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C66c, C74c, C112
RTCA MOPS	DO-144, DO-189, DO-181
Order Options	
Connector	
С	CI 110-40-3
Color	
White	Standard
Gasket	
Gasket	70445 'O' Ring

214.320.9770

DME/	Transpond	er
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Frequency 960-1220 MHz & 1030-1090 MHz

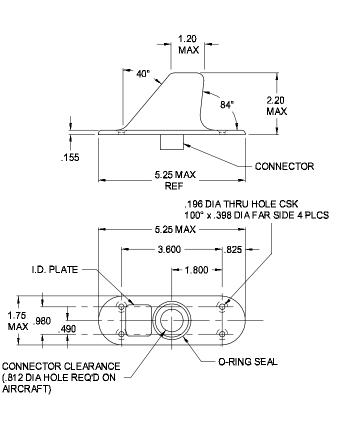
Model	Cl 110-41 Series DME/Transponder
Electrical	
Frequency	960 to 1220 MHz & 1030 to 1090 MHz
VSWR	1.7:1 960 to 1220 MHz
	1.4:1 1000 to 1100 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub/omnidirectional
Impedance RF	50 OHMS
Resistance DC	Short circuit
Power RF	3 kW peak 100 watts average.
Mechanical	
Weight	0.25 lbs. maximum
Height	2.20" maximum
Material	Die cast A380 aluminum alloy
Finish	Polyurethane enamel
Connector	See order options
Environmental	
Temperature	-55° C to +85° C
Altitude	70,000'
Air Speed	600 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	DO-160C
Environmental Category	[F2X]ACB[S(L)U(F,F1)T(C,C1,R)] XRFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C66c, C74c, C112
RTCA MOPS	DO-144, DO-189, DO-181
Order Options	
Connector	
С	CI 110-41-3
Color	
White	Standard
Gasket	
Gasket	70445 'O' Ring



All metal, low profile antenna is designed for business jet and commercial high speed aircraft. With a popular four hole mount and connector path to ground, this antenna is ideally suited for those aircraft equipped with Mode S transponders. In addition to standard DME, transponder, and Mode S transponder, this antenna can be used for TAS/IHAS installations. Tough, one piece construction provides 175 lbs. side load capability, guarding against breakage from ground equipment. Moisture failure is prevented with completely sealed construction.

Refer to the CI 110-40 or the CI 110-60 for similar antennas offering DC open circuit.

P/N CI 110-41



**Dallas Avionics** 

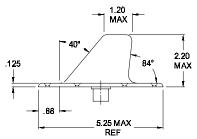
#### **DME/Transponder**

Frequency 960-1220 MHz & 1030-1090 MHz

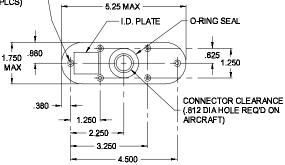


All metal, low profile antenna is designed for business jet and commercial high speed aircraft. With a popular six hole mount and connector with open path to ground, this antenna is ideally suited for those aircraft equipped with standard transponders and Mode S transponders. Tough, one piece construction provides 175 lbs. side load capability, guarding against breakage from ground equipment. Moisture failure is prevented with completely sealed construction.

Refer to the Cl 110-41 or the Cl 110-61 for similar antennas offering DC short circuit. **P/N Cl 110-60** 



.144 DIA THRU HOLE CSK 100° x.280 DIA FAR SIDE 6 PLCS (.154 DIA HOLE REQ'D CN AIRCRAFT 6 PLCS)



Model	Cl 110-60 Series DME / Transponder
Electrical	
Frequency	960 to 1220 MHz & 1030 to 1090 MHz
VSWR	1.7:1 960 to 1220 MHz
	1.4:1 1000 to 1100 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub/omnidirectional
Impedance RF	50 OHMS
Resistance DC	Open circuit
Power RF	Peak 3 kW average 100 watts
Mechanical	
Weight	0.25 lbs. maximum
Height	2.20" maximum
Material	Die cast A380 aluminum alloy
Finish	Polyurethane enamel
Connector	See order options
Environmental	
Temperature	-55° C to +85° C
Altitude	70,000′
Air Speed	600 Knots TAS @ 25,000'
Federal Specification	ns
RTCA Environmental	D0-160C
Environmental Category	[F2X]ACB[S](L)U(F,F1)T(C,C1,R)] XRFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C66c, C74c, C112
RTCA MOPS	DO-144, DO-189, DO-181
Order Options	
Connector	
С	CI 110-60-3
Color	
White	Standard
Gasket	
0 1 1	70445 (O/ D'

Gasket

70445 'O' Ring

<b>DME/Transponde</b>	r
-----------------------	---

Frequency 960-1220 MHz & 1030-1090 MHz

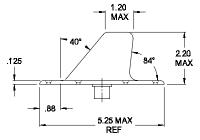
Model	Cl 110-61 Series DME/Transponder
Electrical	
Frequency	960 to 1220 MHz & 1030 to 1090 MHz
VSWR	1.7:1 960 to 1220 MHz
	1.4:1 1000 to 1100 MHz
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub/omnidirectional
Impedance RF	50 OHMS
Resistance DC	Short circuit
Power RF	Peak 3 kW average 100 watts
Mechanical	
Weight	0.25 lbs. maximum
Height	2.20″ maximum
Material	Die cast A380 aluminum alloy
Finish	Polyurethane enamel
Connector	See order options
Environmental	
Temperature	-55° C to +85° C
Altitude	70,000′
Air Speed	600 Knots TAS @ 25,000'
Federal Specification	15
RTCA Environmental	D0-160C
Environmental Category	[F2X]ACB[S(L)U(F,F1)T(C,C1,R)]
	XRFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C66c, C74c, C112
RTCA MOPS	DO-144, DO-189, DO-181
Order Options	
Connector	
с	CI 110-61-3
Color	
White	Standard
Gasket	
Gasket	70445 'O' Ring



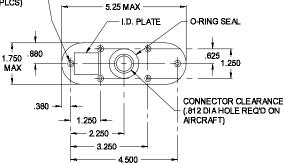
All metal, low profile antenna is designed for business jet and commercial high speed aircraft. With a popular six hole mount and connector path to ground, this antenna is ideally suited for those aircraft equipped with Mode S transponders. In addition to standard DME, transponder, and Mode S transponder, this antenna can be used for TAS/IHAS installations. Though, one piece construction provides 175 lbs. side load capability, guarding against breakage from ground equipment. Moisture failure is prevented with completely sealed construction.

Refer to the CI 110-40 or the CI 110-60 for similar antennas offering DC open circuit.

#### P/N CI 110-61



#### .144 DIA THRU HOLE CSK 100° x .280 DIA FAR SIDE 6 PLCS (.154 DIA HOLE REQ'D ON ARCRAFT 6 PLCS)

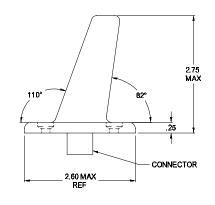


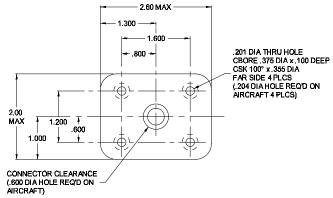
#### **DME/Transponder**

Frequency 960-1220 MHz



Miniature high speed DME/transponder, one of the smallest DME/transponder antennas available from Comant. Less than 2.75" high featuring a very low-drag frontal profile. Strong, lightweight and easy to mount using four external mounting holes in the base. P/N CI 305 Series





Model	Cl 305 Series DME / Transponder
Electrical	
Frequency	960 to 1220 MHz
VSWR	1.8:1 maximum
Polarization	Vertical
Radiation Pattern	Equivalent of $\lambda/4$ stub
Impedance RF	50 OHMS
Resistance DC	Open circuit
Power RF	1 kW peak
Mechanical	
Weight	0.3 lbs. maximum
Height	2.75″ maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	See order options
Environmental	
Temperature	-55° C to +85° C
Altitude	70,000′
Air Speed	600 Knots TAS @ 35,000'
Federal Specification	IS
RTCA Environmental	D0-160A
Environmental Category	AE1/A/JXXXXXXXXXX
FAA TSO	C66c, C74c
RTCA MOPS	DO-144, DO-189, DO-181
Order Options	
Connector	P/N
BNC	CI 305
TNC	CI 305-2
С	CI 305-3
Color	
White	Standard
Gasket	
Gasket	B30503

Avionics & Accessories

Comant

Model	CI 102 Marker Beacon
Electrical	
Frequency	75 MHz
VSWR	≤ 1.5:1 maximum
Polarization	Parallel to the mounting plane
Radiation Pattern	Partially downward
Impedance RF	50 OHMS
Resistance DC	DC grounded
Power RF	Receive only
Mechanical	
Weight	0.6 lbs. maximum
Height	2.15" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	45,000'
Air Speed	400 Knots TAS @ 25,000'
Federal Specification	15
RTCA Environmental	D0-160A
Environmental Category	AASXXXXXXXXX
FAA TSO	C35d
RTCA MOPS	DO-138, DO-143
Order Options	
Connector	
BNC	CI 102
TNC	CI 102-2
Color	
White	Standard
Gasket	
Gasket	C10208

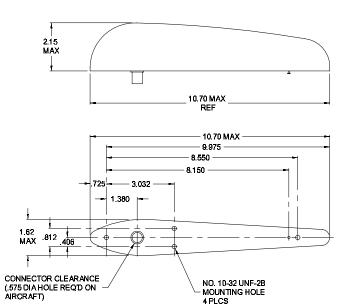
## **Marker Beacon**

Frequency 75 MHz



Designed for use with modern, high sensitivity marker beacon receivers. Small and lightweight, featuring 4-hole internal mounting for simple installation. Antenna assembly is enclosed in an injection molded radome which is impervious to the tough environments typical of the underside of an aircraft. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static.





#### **Marker Beacon**

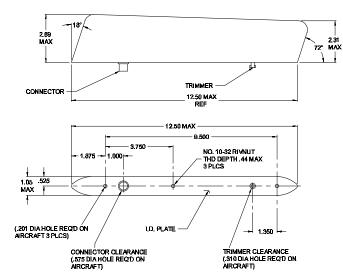
Frequency 75 MHz

Avionics & Accessories

Comant



Designed specifically for high-performance aircraft applications. Features aerodynamic design in a lightweight package. Antenna is a low profile blade-type encased in a molded polyurethane shell. Skydrol and rain erosion resistant. **P/N CI 118** 



Model	CI 118 Marker Beacon
Electrical	
Frequency	75 MHz
VSWR	≤ 1.5:1 maximum
Polarization	Parallel to the mounting plane
Radiation Pattern	Partially downward
Impedance RF	50 OHMS
Resistance DC	DC grounded
Power RF	Receive only
Mechanical	
Weight	0.5 lbs. maximum
Height	2.69" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	45,000'
Air Speed	400 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	D0-160A
Environmental Category	AASXXXXXXXXX
FAA TSO	C35d
RTCA MOPS	DO-138, DO-143
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	

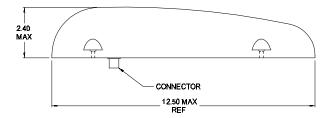
Model	CI 118-1 Marker Beacon
Electrical	
Frequency	75 MHz
VSWR	≤ 1.5:1 maximum
Polarization	Parallel to the mounting plane
Radiation Pattern	Partially downward
Impedance RF	50 OHMS
Resistance DC	DC grounded
Power RF	Receive only
Mechanical	
Weight	0.5 lbs. maximum
Height	2.40" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	45,000'
Air Speed	400 Knots TAS @ 25,000'
Federal Specification	15
RTCA Environmental	D0-160A
Environmental Category	AASXXXXXXXXX
FAA TSO	C35d
RTCA MOPS	DO-138, DO-143
Order Options	
Connector	
BNC	Standard
Color	
White	Standard

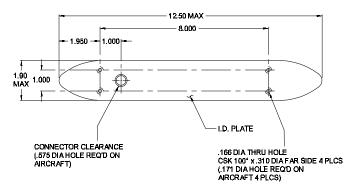
## **Marker Beacon**

Frequency 75 MHz



Low-drag, lower profile alternative to the popular Cl 102 "boat style" marker beacon antenna. Approved for medium- to high-performance single, turbo-prop or jet aircraft and provides simple external mounting. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static. **P/N Cl 118-1** 



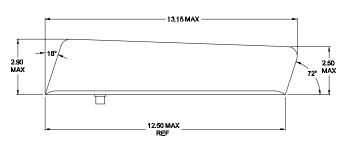


#### **Marker Beacon**

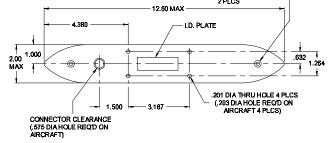
Frequency 75 MHz



Identical to CI 118 except the mounting base includes a flange to provide for 4-hole external mounting. Approved for medium to high-performance single, turbo-prop or jet aircraft and provides simple external mounting. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static. **P/N CI 118-5** 



NO. 10-32 BLIND RIVNUT X 7/16 DEEP (.203 DIA HOLE REQTO ON AIRCRAFT) 2 PLCS



Model	Cl 118-5 Marker Beacon
Electrical	
Frequency	75 MHz
VSWR	≤ 1.7:1 maximum
Polarization	Parallel to the mounting plane
Radiation Pattern	Partially downward
Impedance RF	50 OHMS
Resistance DC	DC grounded
Power RF	Receive only
Mechanical	
Weight	0.5 lbs. maximum
Height	2.90" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	45,000'
Air Speed	400 Knots TAS @ 25,000'
Federal Specification	15
RTCA Environmental	D0-160A
Environmental Category	AASXXXXXXXX
FAA TSO	C35d
RTCA MOPS	D0-138, D0-143
Order Options	
Connector	
BNC	Standard
Color	
White	Standard

Avionics & Accessories Co

# Comant

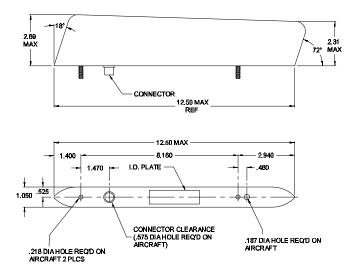
Model	CI 118-9 Marker Beacon
Electrical	
Frequency	75 MHz
VSWR	≤ 1.5:1 maximum
Polarization	Parallel to the mounting plane
Radiation Pattern	Partially downward
Impedance RF	50 OHMS
Resistance DC	DC grounded
Power RF	Receive only
Mechanical	
Weight	0.65 lbs. maximum
Height	2.69" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	45,000′
Air Speed	400 Knots TAS @ 25,000'
Federal Specification	15
RTCA Environmental	D0-160A
Environmental Category	[D2]-XAX[S(C,F,Y)XRFDXSX
	[X]XXX[XXX}X[XXXX]XXX
FAA TSO	C35d
RTCA MOPS	DO-138, DO-143
Order Options	
Connector	
BNC	Standard
Color	
White	Standard

#### **Marker Beacon**

Frequency 75 MHz



Identical to CI 118 except the mounting configuration allows for a "drop-in" replacement to the Honeywell Bendix-King™ KA26 Marker Beacon. This Comant design has been tested to the tough DO-160D environmental standards. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static. **P/N CI 118-9** 



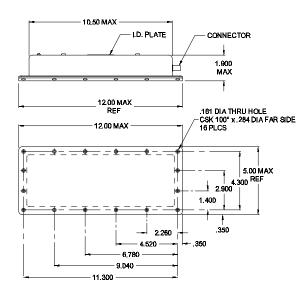
#### **Marker Beacon**

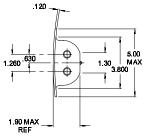
Frequency 75 MHz



Lightweight flush mount antenna was originally designed for use on military aircraft. Provides for dual marker beacon signal outputs at the antenna, eliminating the need for a separate marker beacon splitter. Antenna is housed in an aluminum enclosure with a glass laminate cover. Internal components are potted in place for mechanical integrity. The Cl 164 is designed for curved "crown" surface mounting as is currently used on the Cessna<sup>™</sup> Citation I and II.

#### P/N CI 164





Model	CI 164 Marker Beacon
Electrical	
Frequency	75 MHz
VSWR	1.5:1 maximum @ 75 MHz 5.0:1 maximum @ ± 15 MHz
Polarization	Horizontal
Isolation Between Ports	22dB minimum
Impedance RF	50 OHMS
Resistance DC	DC grounded
Power RF	Receive only
Mechanical	
Weight	1.0 lbs. maximum
Height	Flush mount
Material	Aluminum housing/
	Glass laminate cover
Finish	Polyurethane enamel
Connector	BNC (Two places)
Environmental	
Temperature	-55° C to +85° C
Altitude	45,000′
Air Speed	600 Knots TAS @ 55,000'
Federal Specification	ns
RTCA Environmental	D0-160A
Environmental Category	AASXXXXXXXXX
FAA TSO	C35d
RTCA MOPS	DO-138, DO-143
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	

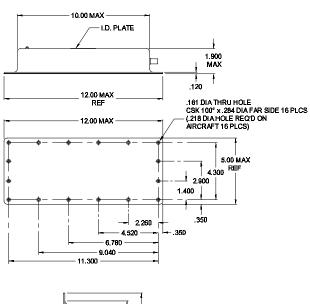
Model	CI 165 Marker Beacon
Electrical	
Frequency	75 MHz
VSWR	1.5:1 maximum @ 75 MHz 5.0:1 maximum @ ± 15 MHz
Polarization	Horizontal
Isolation Between Ports	22 dB minimum
Impedance RF	50 OHMS
Resistance DC	DC grounded
Power RF	Receive only
Mechanical	
Weight	1.0 lbs. maximum
Height	Flush mount
Material	Aluminum housing/
	Glass laminate cover
Finish	Polyurethane enamel
Connector	BNC (two places)
Environmental	
Temperature	-55° C to +85° C
Altitude	45,000′
Air Speed	600 Knots TAS @ 55,000'
Federal Specification	IS
RTCA Environmental	DO-160A
Environmental Category	AASXXXXXXXX
FAA TSO	C35d
RTCA MOPS	DO-138, DO-143
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	D16404

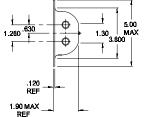
#### **Marker Beacon**

Frequency 75 MHz



Lightweight flush mount antenna was originally designed for use on military aircraft. Provides for dual marker beacon signal outputs at the antenna, eliminating the need for a separate marker beacon splitter. Antenna is housed in an aluminum enclosure with a glass laminate cover. Internal components are potted in place for mechanical integrity. The Cl 165 is designed for flat surface mounting and is used on the Citation III<sup>TM</sup>. **P/N Cl 165** 





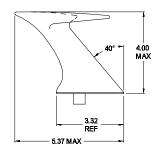
**Dallas Avionics** 

## **Glide Slope**

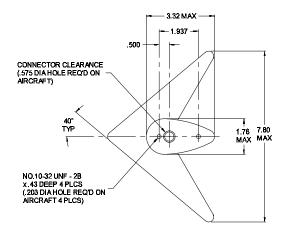
Frequency 329-335 MHz



Half wave dipole in "V" configuration. Features an aerodynamic shape with 2-hole mounting for simple installation and a unique ferrite balun which is integral to the antenna. P/N CI 104



Model	CI 104 Glide Slope Antenna
Electrical	
Frequency	329 to 335 MHz
VSWR	5.0:1 maximum
Polarization	Horizontal
Radiation Pattern	Forward coverage ± 60° azimuth +20° elevation
Impedance	50 OHMS (nominal)
Power	Low power
Mechanical	
Weight	0.5 lbs. maximum
Height	4.00" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Air Speed	350 Knots TAS @ 25,000'
Order Options	
Connector	
BNC	Standard
Color	
White	Standard



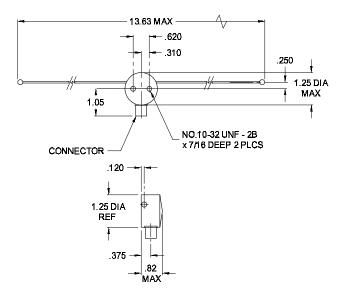
Model	CI 193 Glide Slope Antenna
Electrical	
Frequency	329 to 335 MHz
VSWR	2.0:1 maximum
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS
Power RF	Receive only
Gain	2.0 dB (nominal)
Mechanical	
Weight	0.15 lbs. maximum
Height	1.5″ maximum
Material	Delrin housing/brass radiators
Finish	Black/nickel
Connector	BNC
Environmental	
Temperature	-55° C to +55° C
	Internal mount
Federal Specification	S
RTCA Environmental	DO-160
Environmental Category	D2ALXXXXXXXXXXX
FAA TSO	C34c
RTCA MOPS	DO-192
Order Options	
Connector	
BNC	Standard

#### **Glide Slope**

Frequency 329-335 MHz

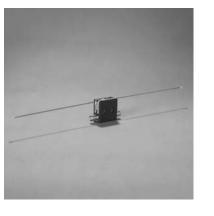


Half wave dipole designed for interior mounting. Integral ferrite balun can result in improved performance when propeller modulation is a problem. **P/N CI 193** 

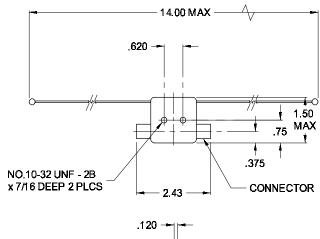


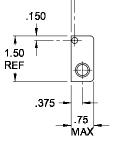
## **Glide Slope**

Frequency 329-335 MHz



Similar to the Cl 193 except it provides dual glide slope outputs without the need for a separate glide slope coupler. **P/N Cl 193-2** 





Model	Cl 193-2 Glide Slope Antenna
Electrical	
Frequency	329 to 335 MHz
VSWR	2.0:1 maximum
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS
Power RF	Low power
Gain	2.0 dB (nominal)
Mechanical	
Weight	0.15 lbs. maximum
Height	2.50" maximum
Material	Delrin housing/brass radiators
Finish	Black/nickel
Connector	BNC
Environmental	
Temperature	-55° C to +55° C
	Internal mount
Federal Specificatio	ns
RTCA Environmental	DO 160
Environmental Category	D2ALXXXXXXXXXXX
FAA TSO	C34c
RTCA MOPS	DO 192
Order Options	
Connector	
BNC	Standard

Model	CI 212 Glide Slope Antenna
Electrical	
Frequency	329 to 335 MHz
VSWR	2.0:1 maximum
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS
Power RF	Receive only
Gain	2.0 dB (nominal)
Mechanical	
Weight	0.15 lbs. maximum
Height	6.50″ maximum
Material	Delrin housing/brass radiators
Finish	Black/nickel
Connector	BNC
Environmental	
Temperature	-55° C to +55° C
	Internal mount
Federal Specification	S
RTCA Environmental	DO-160
Environmental Category	D2ALXXXXXXXXXXX
FAA TSO	C34c
RTCA MOPS	DO-192
Order Options	
Connector	
BNC	Standard

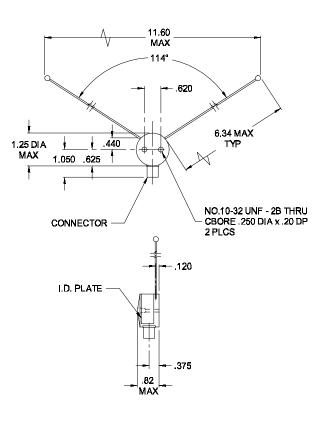
#### **Glide Slope**

Frequency 329-335 MHz



"V" glide slope designed specifically for mounting inside the nose cone of twin-engine aircraft. Provides a -3dB reduction in gain at the +30 degree points and +6.0 dB gain looking forward relative to standard glide slope antennas. Antenna radiation characteristics eliminate or significantly reduce problems associated with propeller modulation.

#### P/N CI 212

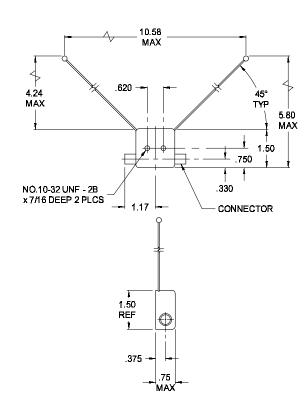


## **Glide Slope**

Frequency 329-335 MHz



"V" Glide Slope similar to the Cl 212 except provides two output signals for dual glide slope receiver installation without the need for a glide slope coupler. Configured in a "V" for internal mounting in aircraft nose radome. **P/N Cl 212-2** 



Model	CI 212-2 Glide Slope Antenna
Electrical	
Frequency	329 to 335 MHz
VSWR	2.0:1 maximum
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS
Power RF	Receive only
Gain	2.0 dB (nominal)
Mechanical	
Weight	0.15 lbs. maximum
Height	6.50" maximum
Material	Delrin housing/brass radiators
Finish	Black/nickel
Connector	BNC
Environmental	
Temperature	-55° C to +55° C
	Internal mount
Federal Specification	ns
RTCA Environmental	DO 160
Environmental Category	D2ALXXXXXXXXXXX
FAA TSO	C34c
RTCA MOPS	D0 192
Order Options	
Connector	
BNC	Standard

Comant

Model	CI 120G/S VOR/GS Antenna
Electrical	
Frequency	108 to 118 MHz (VOR/LOC)
	329 to 335 MHz (glide slope)
VSWR	6.0:1 108 to 118 (VOR/LOC)
	3.5:1 329 to 335 MHz (glide slope)
Polarization	Horizontal
Radiation Pattern	Omnidirectional
Impedance	50 OHMS (nominal)
Power RF	Receive only
Mechanical	
Weight	1.4 lbs. per blade
Height	6.0" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC/single output combiner
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	600 Knots TAS @ 25,000'
Federal Specification	ns
RTCA Environmental	DO-160D
Environmental Category	[(F2)X]ACE[(T)E1P]
	XRXXXSXXXXXXXXXXXX
FAA TSO	C34e, C36e, C40c
RTCA MOPS	DO-192, DO-195, DO-196
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	

B12014

Gasket

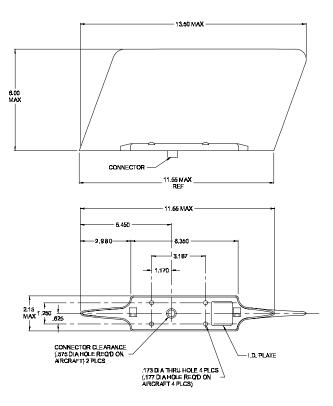
#### **VOR/LOC/GS**

Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)



VOR/GS navigation antenna set provides optimum VOR performance when used for area navigation. Antenna system qualified for use on single, twin, jet and helicopter aircraft. Also provides glide slope reception capability. Complete set includes a pair (2) of blades, each with single BNC connector output, two coax interconnect cables and a signal combiner with single BNC connector output providing for a single cable run to the avionics installation. View the footprint of this combiner (Cl 120-3).

For dual VOR/Single Glide Slope operation with NAV 1 and NAV 2 receivers, use Cl 505 diplexer. Dual VOR/dual glide slope operation is available when used with the Cl 1125 diplexer. **P/N Cl 120G/S** 



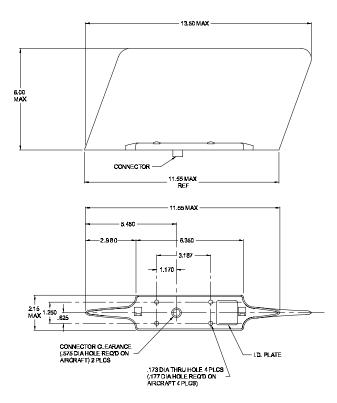
#### **VOR/LOC/GS**

Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)



VOR/GS navigation antenna set provides optimum VOR performance when used for area navigation. Antenna system qualified for use on single, twin, jet and helicopter aircraft. Also provides glide slope reception capability. Complete set includes a pair (2) of blades, each with single BNC connector output, and two coax interconnect cables. Dual BNC output combiner, providing for a separate RF cable run to the avionics installation for NAV 1 and NAV 2 receivers, is included. View the footprint of this combiner (CI 120-4).

Dual VOR/Dual Glide Slope operation is available when used with a pair of Cl 507 diplexers. **P/N Cl 120-200G/S** 



Model	CI 120-200G/S VOR/GS Antenna
Electrical	
Frequency	108 to 118 MHz (VOR/LOC)
	329 to 335 MHz (glide Slope)
VSWR	6.0:1 108 to 118 MHz (VOR/LOC)
	3.5:1 329 to 335 MHz (glide Slope)
Polarization	Horizontal
Radiation Pattern	Omnidirectional
Impedance	50 OHMS (nominal)
Power RF	Receive only
Gain	2.0 dB (nominal)
Mechanical	
Weight	1.4 lbs. per blade
Height	6.0" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC/single output combiner
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	600 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	DO 160D
Environmental Category	[(F2)X]ACE(T)E1P]
	XRXXXSXXXXXXXXXXXXX
FAA TSO	C34c, C36e, C40c
RTCA MOPS	DO-192, DO-195, DO-196
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B12014

VOR/L	.OC/GS
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Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)

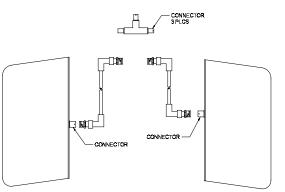
Model	CI 120-400 VOR/GS Antenna
Electrical	
Frequency	108 to 118 MHz (VOR/LOC)
	329 to 335 MHz (glide Slope)
VSWR	6.0:1 108 to 118 MHz (VOR/LOC)
	3.5:1 329 to 335 MHz (glide Slope)
Polarization	Horizontal
Radiation Pattern	Omnidirectional
Impedance	50 OHMS (nominal)
Power RF	Receive only
Mechanical	
Weight	1.4 lbs. per blade
Height	6.0" maximum
Material	Glass reinforced radome
Finish	Polyurethane enamel
Connector	BNC/single output combiner
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	300 Knots TAS @ 25,000'
Federal Specification	ns
RTCA Environmental	DO 160D
Environmental Category	[(D2)X]AXB(S)E]
	XRFDXSXXXXXXXXXXX
FAA TSO	C34e, C36e, C40c
RTCA MOPS	DO-192, DO-195, DO-196
Order Options	
Connector	
BNC	Standard
Color	
White	Standard

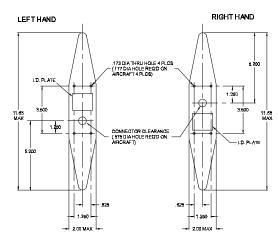


Comant designed this VOR/GS navigation antenna blade set for the Cessna 182 Series. Unique design and manufacturing techniques keep this set competitively priced while offering the reduced-drag advantages of a blade set.

Provides for VOR/LOC/GS. Complete set includes a pair (2) of blades, each with single BNC connector output, and two coax interconnect cables. Single BNC output phasing combiner providing for a single RF cable run to the avionics installation.







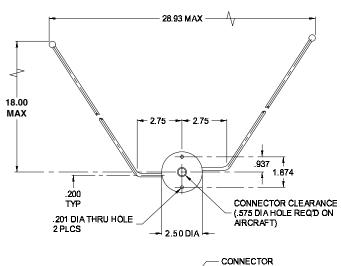
#### **VOR/GS**

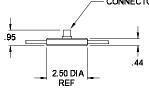
Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)



"V" Dipole VOR/Glide Slope Antenna with fixed elements designed specifically for compatibility with the Piper Aircraft mounting. Integral ferrite balun provides for higher radiation efficiency replacing cumbersome coaxial baluns previously utilized. Radiating elements are not removable. Not approved for helicopter installations.

P/N CI 157P





Model	Cl 157P V-Dipole
Electrical	
Frequency	108 to 118 MHz (VOR/LOC)
	329 to 335 MHz (glide slope)
VSWR	6.0:1 108 to 118 (VOR/LOC)
	2.5:1 329 to 335 MHz (glide slope)
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS (nominal)
Power RF	Receive only
Mechanical	
Weight	0.5 lbs. per blade
Height	18.00" maximum
Material	Delrin housing/stainless whips
Finish	Black housing/stainless whips
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS @ 25,000'
Federal Specification	S
RTCA Environmental	DO-160C
Environmental Category	[A2F2]-CA[CLM]
	XRFXXXXXXXXXXXXC
FAA TSO	C34c, C38c, C40c
RTCA MOPS Order Options	DO-192, DO-195, DO-196
Connector	
BNC	Standard

Model	Cl 158C V-Dipole
Electrical	
Frequency	108 to 118 MHz (VOR/LOC) 329 to 335 MHz (glide slope)
VSWR	6.0:1 108 to 118 MHz (VOR/LOC) 2.5:1 329 to 335 MHz (glide slope)
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS (nominal)
Power RF	Receive only
Mechanical	
Weight	0.35 lbs. maximum
Height	17 5/8" maximum
Material	Delrin housing/stainless whip
Finish	Black housing/stainless whip
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS @ 25,000'
Federal Specification	ns
RTCA Environmental	D0 160
Environmental Category	B2ALXXXXXXXXXXX
FAA TSO	C34c, C38c, C40c
RTCA MOPS	DO-192, DO-195, DO-196
Order Options	
Connector	
BNC	Standard

BNC

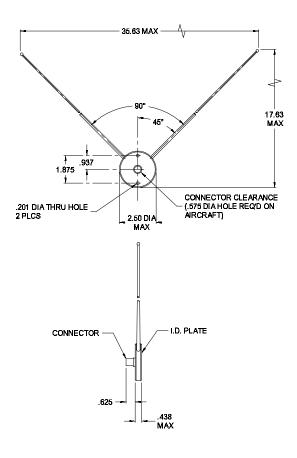
Standard

VOR/GS

Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)



"V" Dipole VOR/Glide Slope Antenna with detachable elements mounts on top of the vertical fin stabilizer for most single engine general aviation aircraft. RF design similar to the CI 157P. Integral ferrite balun provides for higher radiation efficiency. Detachable element results in a significantly smaller shipping and storage carton than fixed element versions. Not approved for helicopter installations. **P/N CI 158C** 



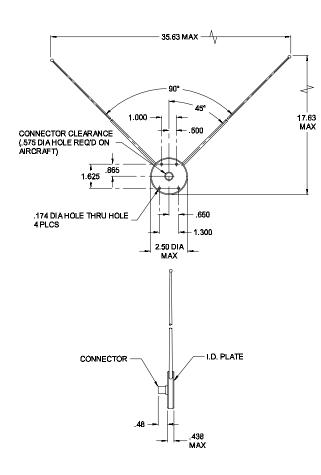
#### **VOR/GS**

Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)



"V" Dipole VOR/Glide Slope Antenna with detachable elements mounts on top of the vertical fin stabilizer offering the four-hole mounting configuration found on many Beech aircraft. RF design similar to the CI 157P. Integral ferrite balun provides for higher radiation efficiency. Detachable element results in a significantly smaller shipping and storage carton than fixed element versions. Not approved for helicopter installations.

P/N CI 158C-2



Model	Cl 158C-2 V-Dipole
Electrical	
Frequency	108 to 118 MHz (VOR/LOC)
	329 to 335 MHz (glide slope)
VSWR	6.0:1 108 to 118 (VOR/LOC)
	2.5:1 329 to 335 MHz (glide slope)
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS (nominal)
Power RF	Receive only
Mechanical	
Weight	0.35 lbs. maximum
Height	17 5/8″ maximum
Material	Delrin housing/stainless whips
Finish	Black housing/stainless whips
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS @ 25,000'
Federal Specification	ns
RTCA Environmental	D0-160
Environmental Category	B2ALXXXXXXXXXXX
FAA TSO	C34c, C38c, C40c
RTCA MOPS	DO-192, DO-195, DO-196
Order Options	
Connector	
BNC	Standard

Model	Cl 158C-3 V-Dipole
Electrical	
Frequency	108 to 118 MHz (VOR/LOC) 329 to 335 MHz (glide slope)
VSWR	6.0:1 108 to 118 MHz (VOR/LOC) 2.5:1 329 to 335 MHz (glide slope)
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS (nominal)
Power RF	Receive only
Mechanical	
Weight	0.35 lbs. maximum
Height	16.70" maximum
Material	Delrin housing/polyester glass laminate over stainless radiators
Finish	Black housing/polyurethane paint over P-Stat paint
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	DO-160
Environmental Category	B2ALXXXXXXXXXXX
FAA TSO	C34c, C38c, C40c
RTCA MOPS	DO-192, DO-195, DO-196
Order Options	
Connector	
BNC	Standard
Color	

White

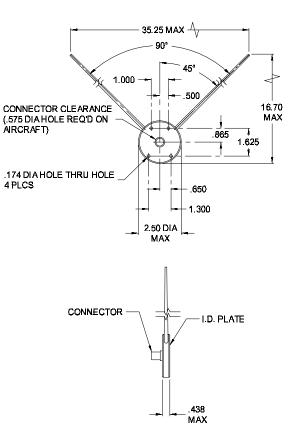
Radiators only

#### **VOR/GS**

Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)



"V" Dipole VOR/Glide Slope Antenna with detachable elements was developed specifically for Beech Bonanza aircraft and encompasses reduced static capability with the use of P-Stat paint and bleeder resistors. Integral ferrite balun provides for higher radiation efficiency. Not approved for helicopter installations. **P/N CI 158C-3** 



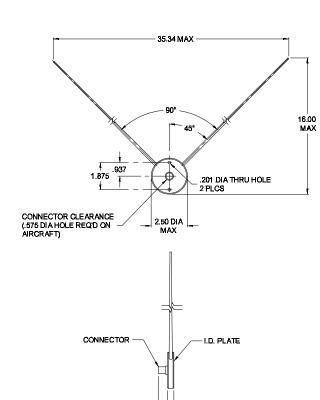
#### **VOR/GS**

Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)



"V" Dipole VOR/Glide Slope Antenna with detachable elements is similar to the CI 158C-3 with the exception of offering 2-hole mount instead of a 4-hole mount. This V Dipole encompasses reduced static capability with the use of P-Stat paint. Integral ferrite balun provides for higher radiation efficiency. Not approved for helicopter installations.

P/N CI 159C



Model	Cl 159C V-Dipole
Electrical	
Frequency	108 to 118 MHz (VOR/LOC)
	329 to 335 MHz (glide slope)
VSWR	6.0:1 108 to 118 (VOR/LOC)
	2.5:1 329 to 335 MHz (glide slope)
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS (nominal)
Power RF	Receive only
Mechanical	
Weight	0.35 lbs. maximum
Height	16.00" maximum
Material	Delrin housing/glass laminate whips/
	SS radiators
Finish	Black housing/polyurethane enamel
	over P-Stat paint
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	D0-160
Environmental Category	B2ALXXXXXXXXXXX
FAA TSO	C34c, C38c, C40c
RTCA MOPS	D0-192, D0-195, D0-196
Order Options	
Connector	
BNC	Standard
Color	
White	Radiators only

.48

.438 MAX

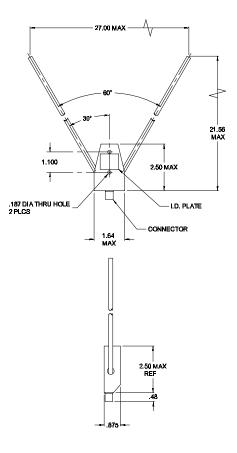
Model	Cl 182 V-Dipole
Electrical	
Frequency	108 to 118 MHz (VOR/LOC)
	329 to 335 MHz (glide slope)
VSWR	6.0:1 108 to 118 MHz (VOR/LOC)
	2.5:1 329 to 335 MHz (glide slope)
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS (nominal)
Power RF	Receive only
Mechanical	
Weight	0.47 lbs. maximum
Height	21 9/16" maximum
Material	Delrin housing/glass radiators/
	glass whips
Finish	Black housing/polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS @ 25,000'
Order Options	
Connector	
BNC	Standard
Color	
White	Radiators only

#### **VOR/GS**

Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)



"V" Dipole VOR/Glide Slope Antenna with detachable elements was developed specifically for Commander aircraft. Mounts inside top of vertical stabilizer for improved aerodynamics. RF design is similar to the CI 157P. Integral ferrite balun provides for higher radiation efficiency. Not approved for helicopter installations. **P/N CI 182** 



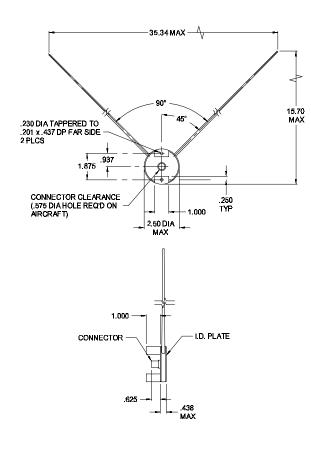
#### **VOR/GS**

Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)



"V" Dipole VOR/Glide Slope Antenna with Detachable Elements features two integrally molded mounting legs or "spacers" for increased strength. Radiating elements are laminated with polyester glass material for improved precipitation static protection. Interchangeable with the VOR/GS antenna used on most Cessna single-engine aircraft since 1980 including the Cessna 182 and 210 models. Not approved for helicopter installations.

P/N CI 215



Model	Cl 215 V-Dipole
Electrical	
Frequency	108 to 118 MHz (VOR/LOC)
	329 to 335 MHz (glide slope)
VSWR	6.0:1 108 to 118 MHz (VOR/LOC)
	3.0:1 329 to 335 MHz (glide slope)
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS (nominal)
Power RF	Receive only
Mechanical	
Weight	0.35 lbs. maximum
Height	16.00" maximum
Material	Delrin housing/glass laminate whips,
	SS radiators
Finish	Black housing/polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	250 Knots TAS @ 25,000'
Order Options	
Federal Specification	ns
RTCA Environment	DO-160
Environmental Category	C2AL XXXXXXXXXXX
FAA TSO	C34c, C36c, C40a
RTCA MOPS	DO-192, DO-195, DO-196
Connector	
BNC	Standard
Color	
White	Radiators only

<b>VOR/GS</b>	
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Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)

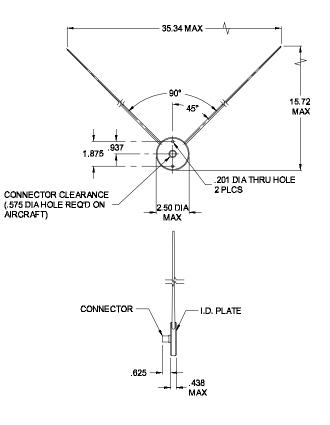
Model	CI 259E V-Dipole
Electrical	
Frequency	108 to 118 MHz (VOR/LOC) 329 to 335 MHz (glide slope)
VSWR	6.0:1 108 to 118 (VOR/LOC) 3.0:1 329 to 335 MHz (glide slope)
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS (nominal)
Power	Receive only
Mechanical	
Weight	0.35 lbs. maximum
Height	16.00" maximum
Material	Delrin mounts/glass laminate whips/
	SS radiators
Finish	Black housing/polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	300 Knots TAS @ 25,000'
Federal Specification	S
RTCA Environmental	DO-160C
Environmental Category	D2A/UV/XXXXXXX
FAA TSO	C34c, C38c, C40c
RTCA MOPS	DO-192, DO-195. DO-196
Order Options	
Connector	
BNC	Standard
Color	

White

Radiators only



"V" Dipole VOR/Glide Slope Antenna with Fixed Elements is approved for use on helicopter aircraft. Features an integral ferrite balun and fixed element construction. Mechanically designed to withstand the severe low frequency vibration environment experienced in typical helicopter installations. APPROVED for use on helicopter aircraft. **P/N CI 259E** 



## **VOR Antennas**

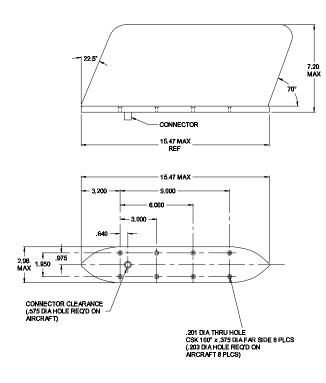
#### VOR

Frequency 108-118 MHz



VOR High Performance Balanced-Loop Set/Single Output Combiner with single output combiner is designed primarily for large airframe turbo-jet aircraft installations where the VOR and glide slope signal reception is provided by separate antennas. Antenna set provides for reception of VOR, area navigation and localizer signals when mounted high on the aircraft vertical stabilizer. Features low drag "knife-edge" aerodynamic shape, rugged mounting base, horizontal/omnidirectional pattern, wide band/high efficiency/ high gain electrical performance, DC grounding for lightning protection and "industry standard" 8-hole mounting. Complete set includes a pair (2) of blades, each with single BNC connector output, two coax interconnect cables and a CI 120-3 signal combiner with single BNC connector output. Set provides for a single cable routing to the avionics installation for NAV 1 receiver. Use the CI 502 diplexer for dual VOR operation with NAV 1 and NAV 2 receivers.

P/N CI 135-100



Model	CI 135-100 VOR Antenna
Electrical	
Frequency	108 to 119 MHz
VSWR	3.0:1
Polarization	Horizontal
Radiation Pattern	Omnidirectional
Impedance	50 OHMS (nominal)
Power	Receive only
Mechanical	
Weight	2.44 lbs. per blade
Height	7.20″ maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC/single output combiner
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	600 Knots TAS @ 25,000'
Order Options	
Federal Specification	ns
RTCA Environment	D0-160C
Environmental Category	F2-XCCXXXXXXXXXXXXXXXXXX
FAA TSO	C40c
RTCA MOPS	DO-196
Connector	
BNC	Standard
Color	
White	Radiators only

# VOR Antennas

Model Electrical Frequency VSWR Polarization

Electrical	
Frequency	108 to 118 MHz
VSWR	3.0:1
Polarization	Horizontal
Radiation Pattern	Omnidirectional
Impedance	50 OHMS (nominal)
Power	Receive only
Mechanical	
Weight	2.44 lbs. per blade
Height	7.20" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC/single output combiner
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000′
Air Speed	600 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	D0-160C
Environmental Category	F2-XCCXXXXXXXXXXXXXXXXXXXX

CI 135-200 VOR Antenna

#### Environmental FAA TSO C40c **RTCA MOPS** DO-196 **Order Options** Connector BNC Standard

Color White

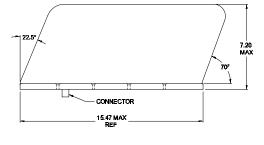
Standard

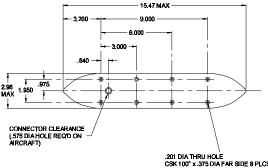


Frequency 108-118 MHz



VOR High Performance Balanced-Loop set with BNC connectors is identical to the CI 135-100 set except that the CI 120-4 signal combiner is supplied with dual BNC connectors. The CI 135-200 provides for two separate cable runs to the avionics installation for NAV 1 and NAV 2 receivers. P/N CI 135-200





.201 DIA THRU HOLE CSK 100° x.375 DIA FAR SIDE 8 PLCS (.203 DIA HOLE REQID ON AIRCRAFT 8 PLCS)

# VOR Antennas

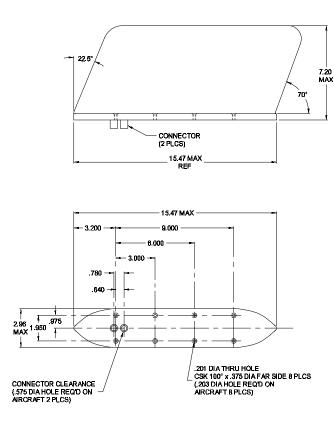
#### VOR

Frequency 108-118 MHz



VOR High Performance Balanced-Loop Set is identical to the Cl 135-100 set except that a pair (2) of blades, each with dual BNC connectors, is included in place of the single BNC connector blade type. Four coax interconnect cables are included in place of two interconnect cables. Pair of (2) CI 120-3 signal combiners are included each with single BNC connector output. Set provides for a completely independent pair (2) of channel connection and cable runs to the avionics installation for NAV 1 and NAV 2 receivers.

P/N CI 135-300



	CI 135-300 VOR Antenna
Electrical	
Frequency	108 to 119 MHz
VSWR	3.0:1
Polarization	Horizontal
Radiation Pattern	Omnidirectional
Impedance	50 OHMS (nominal)
Power	100 watts maximum average
Mechanical	
Weight	2.44 lbs. per blade
Height	7.20" maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	Dual BNC/dual output combiner
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	600 Knots TAS @ 25,000'
Federal Specification	ns
RTCA Environment	DO-160C
Environmental Category	F2-XCCXXXXXXXXXXXXXXXXXXXX
FAA TSO	C40c
RTCA MOPS	DO-196
Order Options	
Connector	
BNC	Dual to Standard
Color	
White	Standard

### VOR Antennas

Model	CI 205-3 Towel Bar Set
Electrical	
Frequency	108 to 118 MHz (VOR/LOC) 329 to 335 MHz (glide slope)
VSWR	5.0:1 108 to 118 (VOR/LOC) 5.25:1 329 to 335 MHz (glide slope)
Polarization	Horizontal
Radiation Pattern	Dipole
Impedance	50 OHMS (nominal)
Power	Receive only
Mechanical	
Weight	1.75 lbs. maximum
Height	5.25″ maximum
Material	Delrin mounts/aluminum "towel bar"
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	300 Knots TAS @ 25,000'
Federal Specification	IS
RTCA Environmental	DO-160C
Environmental Category	F2-XC[CVY4UW]
	XXXXXXXXXXXXXX[1B]X
FAA TSO	C34c, C38c, C40c
RTCA MOPS	DO-196
Order Options	
Connector	
BNC	Standard (with 4' cables)
Color	

White

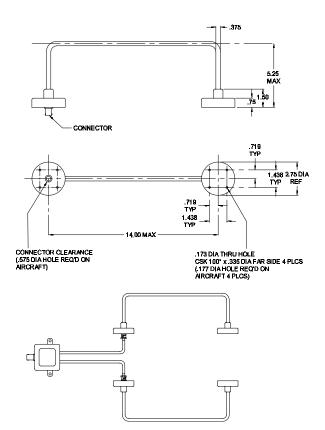
Standard

**VOR/GS** 

Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope)



VOR/Glide Slope High Performance Navigation Antenna Set is designed for mounting on the aircraft vertical stabilizer or helicopter tail boom. Features low weight/drag, tubular structure to minimize helicopter rotor "down wash" forces, wide band/high efficiency electrical performance and DC grounding for lightning protection. Set includes a pair (2) of "towel bar" sensor elements each with single BNC output connector and a one-piece dual coax interconnect signal combiner harness with single BNC connector output. Provides for a single cable routing to the avionics location. Use the CI 502 coupler for dual VOR operation with NAV 1 and NAV 2 receivers. Single or dual VOR/Single Glide Slide operation is available when used with the CI 507 or CI 505 diplexers respectfully in NAV 1 and NAV 2 installations. Use the CI 1125 for dual VOR/dual Glide Slope operation. **P/N CI 205-3** 



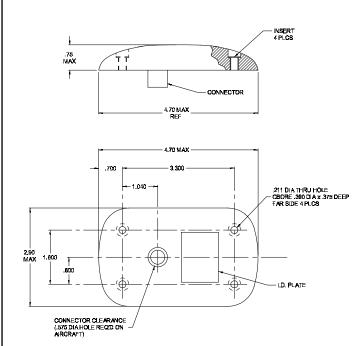
# GPS Antennas

#### GPS

Frequency 1575.42 MHz 26dB Gain



Active GPS antenna designed for airborne applications for aircraft up to 600 knots. Certified to TSO C-129a, complies to ARINC 743 specifications, and D0-208 Minimum Operation Performance requirements. All 401 Series antennas offer DC grounding and have passed rigorous Lightning Direct Effects testing as prescribed in D0-160C. Available in many standard formats as listed. Additional designs with various gain and filter configurations are available. **P/N CI 401 Series/Active** 



Model	CI 401 Series	
Electrical		
Frequency	1575.42 MHz	
Polarization	RHCP	
Axial Ratio (Boresight)	3 dB maximum	
Power Handling	1 watt	
Radiation Coverage (Gain)	-1.0 dBic $\leq \emptyset < 75^{\circ}$	
	-2.5 dBic $\leq \emptyset < 80^{\circ}$	
	-4.5 dBic $\leq \emptyset < 85^{\circ}$	
	-7.5 dBic $\leq \emptyset$ = 90° (horizon)	
	+5.0 dBic (nominal) @ $\emptyset = 0^{\circ}$ (zenith)	
Amplifier		
Voltage	5 or 12VDC (specify to order options)	
Gain	26 dB	
Noise Figure	2.0 dB (nominal)/3.8 dB maximum	
Impedance	50 OHMS	
VSWR	1.7:1 maximum output	
Out of Band Rejection	35 dB minimum @ 1626 MHz	
Power Handling	50 mA maximum	
Lightning	DC grounded	
Mechanical		
Weight	0.5 lbs.	
Height	0.75" maximum	
Material	Molded radome	
Finish	Polyurethane enamel	
Connector	See order options	
Footprint	ARINC 743	
Environmental		
Temperature	-55° C to +85° C	
Altitude	55,000'	
Air Speed	600 Knots TAS	
Federal Specifications		
RTCA Environmental	DO-160C	
Environmental Category	[A2F2]AC[CLMY]	
	XRFXXSAX[AB][BZ]AVAL[2A]C	
FAA TSO	C129a	
RTCA MOPS	D0-208	
Color		
White	Standard	

# GPS Antennas

CI 408-20

1575.42 MHz RHCP

< 3 dB @ 90°

7.0 to 24VDC

26.5 minimum/28 dB (nominal)

35 dB minimum @ 1626 MHz

2.0:1 maximum output

50 mA maximum

0.45 lbs. maximum

0.64" maximum

Molded radome

TNC (female)

-55° C to +85° C

600 Knots TAS

55,000'

DO-160D

C144

DO-228

Model

CI 408-20

Standard

[F2]-AC[S2]

XRFXXSXXXXXX[2A]C

Polyurethane enamel

Round mount configuration

DC grounded

2.0 dB (nominal)/3.8 dB maximum

3.0 dBic  $0^{\circ} \le \emptyset \le 60^{\circ}$ 0.0 dBic  $0^{\circ} \le \emptyset \le 75^{\circ}$ -3.0 dBic  $0^{\circ} \le \emptyset \le 80^{\circ}$ -4.5 dBic  $0^{\circ} \le \emptyset \le 85^{\circ}$ -7.5 dBic  $\emptyset = 90^{\circ}$ 

Model

Electrical Frequency

Polarization

Amplifier Voltage

Out of Band Rejection

Lightning Protection

**Power Handling** 

**Mechanical** 

Gain Noise Figure

VSWR

Weight

Height

Finish

Material

Connector

Temperature

Altitude

Air Speed

FAA TSO

**RTCA MOPS** 

Order Options Voltage (

7.0 to 24.0VDC

Color

White

**Environmental** 

RTCA Environmental Environmental Category

**Federal Specifications** 

Connector

TNC

Footprint

Radiation Coverage (Gain)

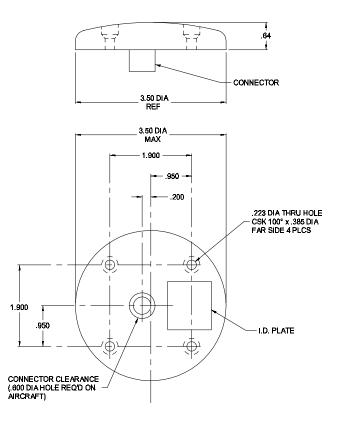
Axial Ratio

GI	PS

Frequency 1575.42 MHz 28dB Gain



Active GPS antenna designed for airborne applications for aircraft up to 600 knots. Certified to TSO C-144, and D0-228 Minimum Operation Performance requirements. This antenna offers DC grounding and has passed rigorous Lightning Direct Effects testing as prescribed in D0-160D. Round footprint allows for drop-in replacement in many popular GPS applications. **P/N CI 408-20/Active** 



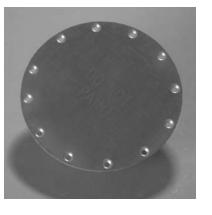
#### 214.320.9770

**Dallas Avionics** 

### Radar Altimeter

### **Radar Altimeter**

Frequency 4250-4350 MHz

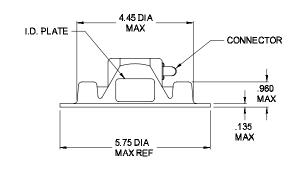


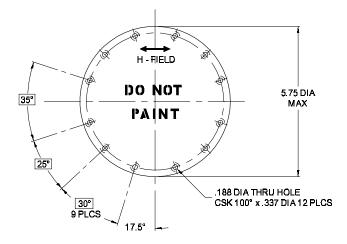
Flush mounted radar altimeter antenna encased in a 5.75" diameter aluminum die casting. Internal components are potted in place for mechanical integrity. Used in pairs, Cl 152s comply with ARINC 552 and exhibit very high isolation.

#### P/N CI 152

Avionics & Accessories

Comant





Model	CI 152 Radar Altimeter
Electrical	
Frequency	4250 to 4350 MHz
VSWR	1.2:1 @ 4350 MHz
	1.3:1 @ 4250 & 4350 MHz
Polarization	Vertical to linear
Gain	10.5 dB minimum @ 4300 MHz
Duty Cycle	0.002
Radiation Pattern	E Plane 45° ± 5° @ 3 dB
	H Plane 45° ± 5° @ 3 dB
Signal Rejection	50 dB @ 8500-8700 MHz
	25 dB @ 8200-8850 MHz
Isolation Beamwidth	H Plane coupled @ 2', 85 dB 35° x 35° minimum
	50 Ohm
Input Power Handling	1 kW peak
Mechanical	
Weight	0.6 lbs.
Height	Flush mount
Material	Die cast alloy aluminum
Finish	MIL-C 5541, CL2
Connector	TNC
Environmental	
Temperature	-55° C to +85° C
Altitude	70,000′
Air Speed	No drag to flush mount
Federal Specifications	:
Military	MIL-A-81605D(AS)
RTCA Environmental	D0 160A
Environmental Category	MIL-STD-810
FAA TSO	C87
Test per ATP	01-34-4550
Order Options	
Connector	
TNC	CI 152
Gasket	
Gasket	B15215

Frequency–Orbcomm Data Link 137.0-150.5 MHz

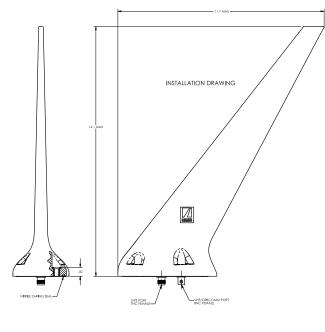
Model	CI 268-10	
<b>RF Characteristics</b>	Orbcomm	
Frequency	137.00-150.05 MHz	
VSWR	2.5:1	
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Power Rating	50 watts	
Impedance	50 OHMS	
Mechanical/Environmental		
Weight	1.25 lbs. maximum	
Connector	BNC	
Air Speed	325 KIAS maximum @ sea level	
Service Ceiling	35,000' maximum	
TSO	C37d, C38d	
Environmental Category	[F2X]ACB[S(C,L,M)T(C1,Y,R)]XSFDXSXXXX [XX]X[XXXX][XX]CX	

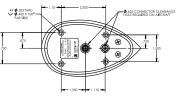


The Cl 268-10 offers the best Orbcomm functionality. Weather data on today's larger and faster aircraft is a quick and easy install with this all-new ComDat®. This model features a super-tough nickel plated aluminum base plate with integral Nitrile '0' ring for pressurized applications, and a heavy duty radome for demanding installations.

The Cl 268-10 operates at Orbcomm frequencies, providing weather data service to the cockpit.

P/N CI 268-10



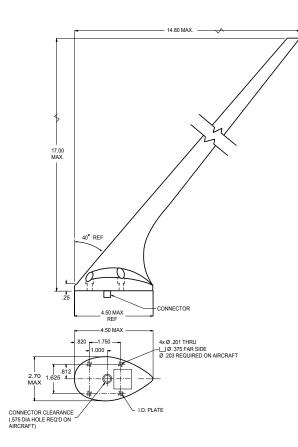


#### **COMDAT™** Data Link

Frequency 137-150.5 MHz



The CI 248-10 is specifically designed for use with Weather/Data or WX systems, bringing e-mail and weather data to the cockpit. The CI 248-10 links to the ORBCOMM™ LEO satellite constellation to bring real time weather and e-mail within easy reach of any pilot. This was built for pure electrical performance. P/N CI 248-10



Model	Cl 248-10 Data Link/ WX Antenna
Electrical	
Frequency	137 to 150.5 MHz
VSWR	2.5:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	0.52 lbs. maximum
Height	17″ maximum
Material	Molded radome
Finish	Polyurethane enamel
Connector	BNC
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000′
Air Speed	350 Knots TAS @ 25,000'
Federal Specifications	3
RTCA Environmental	DO-160D
Environmental Category	[F2X]ACB[S(L)U(F,F1)T(C,C1,R)] XRFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard

Model	CI 248-30 VHF Orbcomm A	ntenna
Electrical	VHF	Orbcomm
Frequency	118 to 135 MHz	137 to 150.5 MHz
VSWR	2.5:1 maximum	2.0:1 maximum
Polarization	Vertical	
Radiation Pattern	Omnidirectional	
Impedance	50 OHMS	
Power	25 Watts	
Mechanical		
Weight	0.5 lbs. maximum	
Height	17.00" maximum	
Material	Molded radome	
Finish	Polyurethane enam	nel
Connector	BNC (female)	
Environmental		
Temperature	-55° C to +85° C	
Altitude	50,000'	
Air Speed	350 Knots TAS	
Federal Specificati	ons	
RTCA Environmental	DO-160D	
Environmental Category	[F2X]ACB[S(L)U(F,F	1)T(C,C1,R)]
	XRFDXSXXXXX[XX]	X[XXXX]XAX
FAA TSO	C37d, C38d	
RTCA MOPS	D0-186A	
Order Options		
Connector		
BNC	Standard	
Color		
White	Standard	
Gasket		
Gasket	B24809 cork neopr	ene

### **COMDAT™ VHF/Data Link Combo**

Frequency 118-137 MHz 137-150.5 MHz

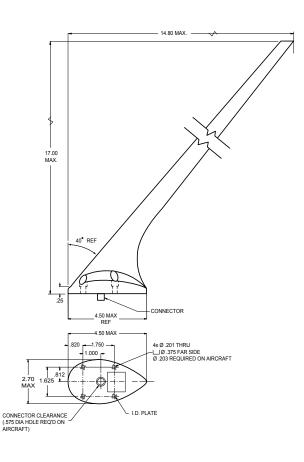


Brand new in concept, this COMDAT™ antenna combines VHF and ORBCOMM™ into a single footprint, allowing you to add ORBCOMM™ without adding another antenna.

Comant worked in conjunction with Avidyne<sup>TM</sup> to offer this unique system. Fully TSO'd this is the only antenna of its type on the market today.

Built-in high performance notch filter, eliminates the need for the in-line filters. Installations are not constrained with GPS/VHF spacing consideration.

P/N CI 248-30



**Dallas Avionics** 

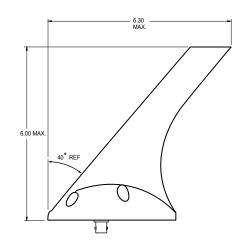
#### **COMDAT™ FIS Data Link**

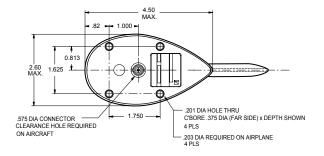
Frequency 137-150.5 MHz



The new Bendix-King KDR 510<sup>™</sup> Data Link receiver from Honeywell provides continuously transmitted weather information through high-speed VDL Mode 2. NEXRAD, METARs and TAFs are displayed for any area of the country at any time, providing greater situational awareness for pilots and aircraft equipped with the system.

Now Comant assures positive FIS performance with the new CI 248-180 FIS Data Link Antenna. Designed specifically to bring NEXRAD, METARs, and TAFs frequencies to the cockpit, the CI 248-180 offers superior performance in a rugged package. **P/N CI 248-180** 





Model	CI 248-180 FIS Data Link Antenna
Electrical	
Frequency	136.450 to 136.475 MHz
VSWR	2.0:1 maximum
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 OHMS
Power	25 Watts
Mechanical	
Weight	0.32 lbs. maximum
Height	6.00" maximum
Material	Glass reinforced nylon
Finish	Polyurethane enamel
Connector	BNC (female)
Environmental	
Temperature	-55° C to +85° C
Altitude	50,000'
Air Speed	650 Knots TAS @ 35,000'
Federal Specifications	
RTCA Environmental	DO-160D
Environmental Category	[F2X]ACB[S(L)U(F,F1)T(C,C1,R)] XRFDXSXXXXX[XX]X[XXXX]XAX
FAA TSO	C37d, C38d
RTCA MOPS	D0-186A
Order Options	
Connector	
BNC	Standard
Color	
White	Standard
Gasket	
Gasket	B24809 cork neoprene

### Satellite Communication & Satellite Entertainment

Model	CI 401-420 ComDat
Preamplifier	
Characteristics	(T <sub>A</sub> = -55° C to +70° C)
Frequency	1575.42 ±3 MHz
Output Impedance	50 OHMS (nominal)
Output VSWR	1.7:1 maximum (RL-11.73 dB)
Gain at 1575.42	26.5 dB minimum/31.5 dB maximum
Noise Figure	3.8 dB maximum
Selectivity	-40 dB minimum Satcom (1625.5 MHz)
DC Voltage	4 to 24VDC
DC Current	25 MA minimum/40 MA maximum
Burnout Protection	30 Bm/1.0 W CW unmodulated
Sat Dadia Maathar	Dete

#### Sat. Radio/Weather Data

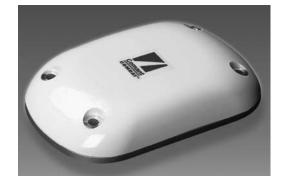
Characteristics	$(T_A = -55^{\circ} C \text{ to } +70^{\circ} C)$
Frequency	2320.0 to 2345.0 MHz
Polarization	LHCP
Radiation Gain Pattern	Hemispherical
Output Impedance	50 OHMS (nominal)
Output VSWR	1.5:1 maximum (RL -14.0 dB)
Amplifier Gain	26.0 dB minimum/30.0 dB maximum
Noise Figure	2.7 dB maximum
Selectivity	-20 dB minimum (FC 230 MHz)
DC Voltage	4 to 24VDC
DC Current	45 mA typical/55 mA maximum

#### **Mechanical/Environmental**

Weight	6.5 oz. maximum
Connector	TNC female GPS/SMA female SAT
Air Speed	600 Knots @ 55,000'
Environmental Category	[F2X]ACB[S(L)T(C,C1,R)]
	XRFDXSXXXXX[XX]X[XXXX][1B]CX
FAA TSO	C144/D0-160D/D0-228

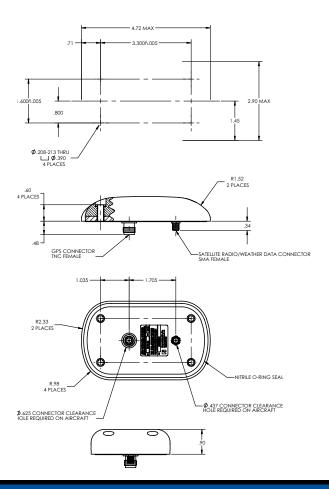
#### Satellite Radio/GPS CI 401-420

Frequency GPS 1575.42 MHz +/- 3 MHz Satellite Radio 2320.0-2345.0 MHz



The CI 401-420 is set apart from other antennas because, in addition to GPS, the antenna provides popular Satellite Radio and Weather Data signal capability. Now installers can quickly place this TSO'd antenna on limited space areas. What's more, installers can provide satellite entertainment and/or weather data systems for their customers without adding another antenna.

The newly redesigned 401 Series ARINC footprint has proven to be a versatile antenna. This model contains a highly stable GPS amplifier that offers gain performance at 27.0 to 31.5 dB while providing excellent Satcom rejection at 40 dB minimum. **P/N CI 401-420** 



# Satellite Communication & Satellite Entertainment

#### Globalstar™ CI 480-1

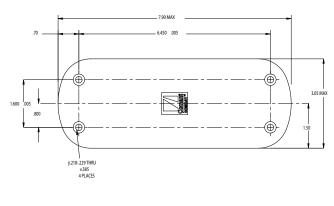
Frequency J1 TX 1610-16226.5 MHz J1 RX 2483.5-2500 MHz

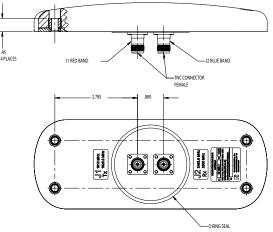


Dual-band active antenna operates at Globalstar<sup>™</sup> Frequencies, with continuous TX coverage from 1610 to 1626.5 MHz and RX band from 2483.5 to 2500 MHz. Receive side features a 29 dB gain amplifier with high-performance filtration and a built-in voltage regulator for DC bias operation of +3.3 to +28VDC.

The ComDat<sup>™</sup> CI 480-1 is standard equipment with Northern Airborne Technology's STX100 Airborne Satellite Communications System<sup>™</sup>, capable of both voice and data operations. Learn more about this system at www.northernairborne.com.

#### P/N CI 480-1





Model	CI 480-1 ComDat™
<b>RF Characteristics</b>	
Frequency	
J1 TX	1610 to 1626.5 MHz
J2 RX	2483.5 to 2500 MHz
Polarization	LHCP
Power Handling	
J1 TX	60 Watts
J2 RX	1 Watt
Radiation Pattern	Hemispherical
Impedance	50 OHMS
Gain	$\leq$ 3.0 dB @ zenith
Lightning Protection	DC Grounded
Amplifier Characterist	tics
Gain	29 dB ±1.5 dB
DC Voltage	+3.3 to +28VDC
DC Current	50 mA maximum
Noise Figure	2.5 dB maximum
Mechanical	
\\/oiaht	1.0 lbs.
Weight	0.95" maximum
Height Finish	Gloss white enamel
Connector	TNC female (2)
Environmental	The ternale (2)
Temperature/Altitude	-55° C to +85° C @ 55,000'
Air Speed	600 Knots @ 55,000'
Federal Specification	S
RTCA Environmental	DO-160C
Environmental Category	[F2X]ACB[S(L)T(C,C1,R)] XRFDXSXXXXX[XX]X[XXXX][X]XX
FAA TSO	C144
RTCA MOPS	D0-228

### Satellite Communication & Satellite Entertainment

Model	CI 490-1
<b>RF Characteristics</b>	
Frequency	
Iridium™	1616 to 1626.5 MHz
GPS	1575 ±10 MHz
Polarization	RHCP
Power Handling	60 Watts
Radiation Pattern	Hemispherical
Impedance	50 OHMS
Gain	$\leq$ 3.0 dB @ zenith
Lightning Protection	DC grounded
Mechanical	
Weight	0.5 lbs.
Height	0.75" maximum
Finish	Gloss white enamel
Connector	TNC (female)
Environmental	
Temperature/Altitude	-55° C to +85° C @ 55,000′
Air Speed	600 Knots @ 55,000'
Federal Specifications	S
RTCA Environmental	DO-160D
Environmental Category	[F2X]ACB[T(E,E1,R)]
	XRFDXSXXXXX[XX]X[XXXX]XCX
FAA TSO	C144
RTCA MOPS	DO-228

#### Iridium<sup>™</sup> CI 490-1

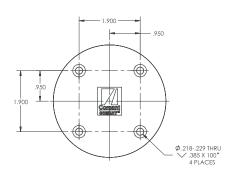
Frequency Iridium 1616-1626.5 MHz GPS 1575 ±10 MHz

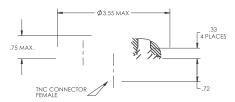


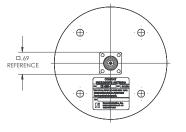
Dual-band passive antenna operates at IridiumTM frequencies, with continuous transmit and receive coverage from 1616 to 1626.5 MHz. Can also operate as a passive GPS antenna.

The ComDatTM CI 490-1 is a high performance communications antenna specifically designed for IridiumTM systems, and features our standard round-format footprint and mounting.

Through a constellation of 66 low-earth orbiting (LEO) satellites, IridiumTM delivers essential communications services to and from areas where terrestrial communications are not available. **P/N CI 490-1** 





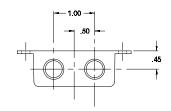


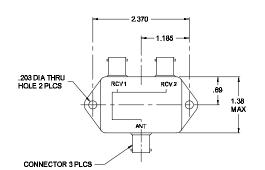
### **Coupler VOR**

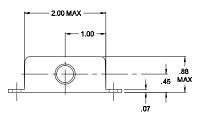
Frequency 108-118 MHz



Dual VOR coupler allows the simultaneous use of two VOR receivers from one VOR antenna. Compact design makes installation easy. **P/N CI 502** 







Model	CI 502 Coupler VOR
Electrical	
Frequency	108 to 118 MHz
VSWR	1.5:1 @ maximum
Insertion Loss	0.5 dB maximum
Isolation	20 dB minimum
Duty Cycle	0.002
Impedance RF	50 OHMS
Mechanical	
Weight	0.20 lbs. maximum
Height	0.88" maximum
Material	Die cast aluminum
Finish	Aluminum
Connector	BNC
Environmental	
	Internal mount
Federal Specifications	
FAA TSO Order Options	C36c, C40c
Connector	
BNC	CI 502
TNC	CI 502-2

Model	Cl 503 Coupler Glide Slope 329 to 335 MHz
Electrical	
Frequency	329 to 335 MHz
VSWR	1.5:1 @ maximum
Insertion Loss	0.5 dB maximum
Isolation	20 dB minimum
Impedance RF	50 OHMS
Mechanical	
Weight	0.20 lbs. maximum
Height	0.88" maximum
Material	Die cast aluminum
Finish	Aluminum
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specifications	i
FAA TSO	C34c
Order Options	
Connector	
BNC	Standard

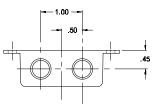
#### **Coupler Glide Slope**

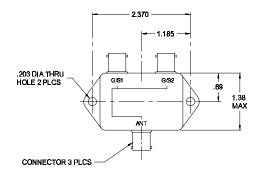
Frequency 329-335 MHz

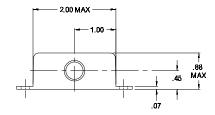


Dual glide slope coupler designed to allow the operation of two glide slope receivers from one glide slope antenna. Compact design makes installation easy.

P/N CI 503





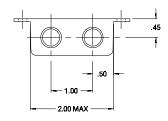


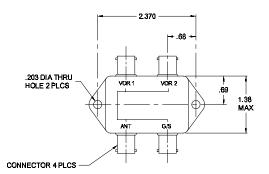
### **Diplexer Dual VOR Glide Slope**

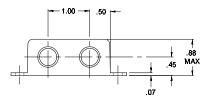
Frequency 108-118 MHz & 329-335 MHz



Dual VOR coupler/single glide slope diplexer allows the operation of two VOR receivers and one glide slope receiver from one VOR/glide slope antenna. Compact design makes installation easy. Also available with TNC connectors. **P/N CI 505** 







Model	CI 505 Diplexer Dual VOR/ Glide Slope
Electrical	
Frequency	108 to 118 & 329 to 335 MHz
VSWR	1.5:1 maximum
Insertion Loss	0.5 dB maximum
Isolation	20 dB minimum between any
	receiver port
Impedance RF	50 OHMS
Mechanical	
Weight	0.20 lbs. maximum
Height	0.88″ maximum
Material	Die cast aluminum
Finish	Aluminum
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specifications	
FAA TSO	C34c, C36c, C40a
Order Options	
Connector	
BNC	CI 505
TNC	CI 505-TNC

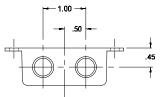
Model	Cl 507 Diplexer VOR/ Glide Slope
Electrical	
Frequency	108 to 118 & 329 to 335 MHz
VSWR	1.5:1 maximum
Insertion Loss	0.5 dB maximum
Isolation	20 dB minimum
Impedance RF	50 OHMS
Mechanical	
Weight	0.20 lbs. maximum
Height	0.88" maximum
Material	Die cast aluminum
Finish	Aluminum
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specifications	
FAA TSO Order Options	C34c, C36c, C40a
Connector	
BNC	Standard

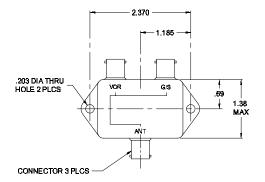
#### **Diplexer VOR/Glide Slope**

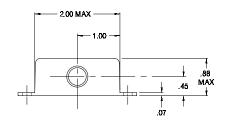
Frequency 108-118 MHz & 329-335 MHz



Single VOR/single glide slope diplexer allows the operation of one VOR and one glide slope receiver from one VOR/glide slope antenna. Compact design makes installation easy. **P/N CI 507** 







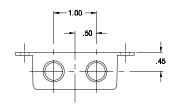
### **Coupler Marker Beacon**

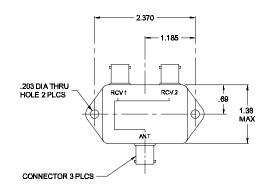
Frequency 75 MHz

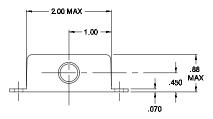


Dual marker beacon coupler permits the use of two marker beacon receivers from one marker beacon antenna. Compact design makes installation easy.

#### P/N CI 509







Model	Cl 509 Coupler/ Marker Beacon
Electrical	
Frequency	75 MHz
VSWR	1.5:1 maximum
Insertion Loss	0.5 dB maximum
Isolation	20 dB minimum
Impedance RF	50 OHMS
Mechanical	
Weight	0.20 lbs. maximum
Height	0.88" maximum
Material	Die cast aluminum
Finish	Aluminum
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specifications	
FAA TSO Order Options	C35d
Connector	
BNC	Standard

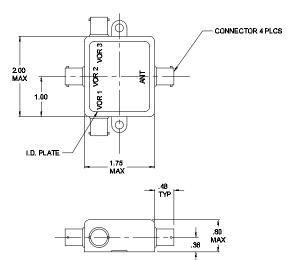
Model	Cl 1114 Coupler VOR/ Three Way
Electrical	
Frequency	108 to 118 MHz
VSWR	1.5:1 maximum
Insertion Loss	0.5 dB maximum
Isolation	20 dB minimum
Impedance RF	50 OHMS
Mechanical	
Weight	0.25 lbs. maximum
Height	0.80" maximum
Material	Aluminum
Finish	Aluminum
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specifications	
FAA TSO Order Options	C36c, C40a
Connector	
BNC	Standard

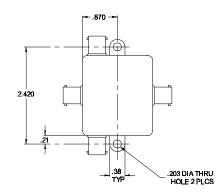
### **Coupler VOR/ Three Way**

Frequency 108-118 MHz



Coupler provides for use of three VOR receivers from one VOR antenna. Coupler circuitry is housed in stamped enclosure to ensure high reliability. **P/N CI 1114** 





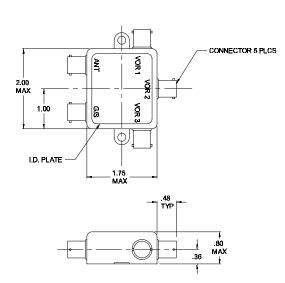
### **Diplexer VOR/GS/Three Way**

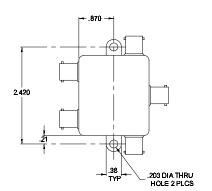
Frequency 108-118 MHz & 329-335 MHz



Triple VOR coupler/single glide slope diplexer allows operation between three VOR receivers and one glide slope receiver from the same VOR/glide slope antenna.

#### P/N CI 1115





Model	Cl 1115 Diplexer VOR/ GS/Three Way
Electrical	
Frequency	108 to 118 & 329 to 335 MHz
VSWR	1.5:1 maximum
Insertion Loss	0.5 dB maximum
Isolation	20 dB minimum
Impedance RF	50 OHMS
Mechanical	
Weight	0.25 lbs. maximum
Height	0.80" maximum
Material	Aluminum
Finish	Aluminum
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specifications	
FAA TSO Order Options	C34c, C36c, C40a
Connector	
BNC	Standard

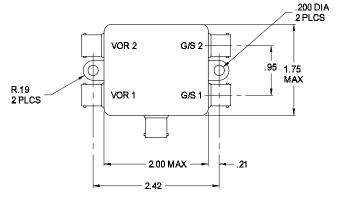
Model	Cl 1125 Diplexer Dual VOR/ Dual GS
Electrical	
Frequency	108 to 118 & 329 to 335 MHz
VSWR	1.5:1 maximum
Insertion Loss	0.6 dB maximum
Isolation	20 dB minimum between VOR & GS 18 dB minimum between VOR ports 18 dB minimum between GS ports
Impedance RF	50 OHMS
Mechanical	
Weight	0.25 lbs. maximum
Height	0.75" maximum
Material	Aluminum
Finish	Aluminum
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specifications	
FAA TSO <b>Order Options</b>	C34c, C36c, C40a
Connector	
BNC	CI 1125
TNC	CI 1125-TNC

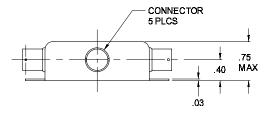
#### **Diplexer Dual VOR/Dual GS**

Frequency 108-118 MHz & 329-335 MHz



Dual VOR/dual glide slope diplexer features diplexer circuitry in a small die-stamped housing for high reliability. Provides operation between two VOR receivers and two glide slope receivers from the same VOR/glide slope antenna. **P/N CI 1125** 



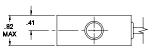


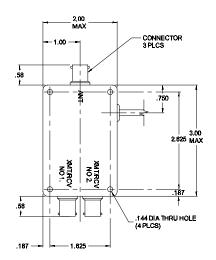
#### **Duplexer Switching**

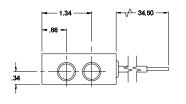
Frequency 118-136 MHz



Dual communication/ single antenna duplexer designed to provide operation between two transceivers and one antenna. In the de-energized mode, the diplexer acts as a 3 dB coupler with the output ports isolated by 20 dB. Control voltage actuated by the microphone circuit switches the antenna to transmitter No. 1 or transmitter No. 2. **P/N CI 601** 







Model	CI 601 Duplexer/Switching
Electrical	
Frequency	118 to 136 MHz
VSWR	1.5:1 maximum/
	transmit & receive
Insertion Loss	0.5 dB maximum
Isolation	20 dB minimum to receive
	(between XMT/RCV No. 1 & No. 2)
	30 dB minimum to transmit/receive
Impedance RF	50 OHMS
Mechanical	
Weight	0.40 lbs. maximum
Height	0.82" maximum
Material	Die cast aluminum
Finish	Flat grey epoxy
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specifications	
FAA TSO Order Options	C37b, C38b
Connector	
BNC	Standard
Color	
Flat Grey	Standard

Model	Cl 1120 Diplexer/ Single VOR/Single GS
Electrical	
Frequency	108 to 120 & 325 to 340 MHz
VSWR	1.5:1 maximum
Insertion Loss	0.5 dB maximum
Isolation	40 dB minimum
Impedance RF	50 OHMS
Mechanical	
Weight	0.44 lbs. maximum
Height	0.812" maximum
Material	Die cast aluminum
Finish	Flat grey epoxy paint
Connector	TNC (female)
Environmental	
	Internal mount
Federal Specifications	
FAA TSO	MIL-E-5400 MIL-STD-810B (vibration) MIL-B-5087

#### **Order Options**

Connector	
TNC	Standard
Color	
Flat Grey	Standard

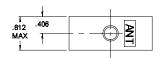
MIL-C-39012 (connector)

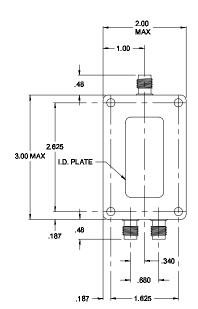
### **Diplexer Single VOR/Single GS**

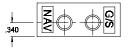
Frequency 108-120 MHz & 325-340 MHz



Provides operation between a single VOR receiver and a single glide slope receiver from the same VOR/glide slope antenna. Offers polarized VOR and GS output connectors. For military applications. **P/N CI 1120** 





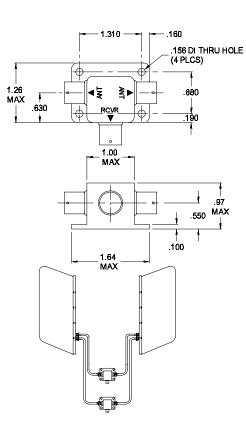


#### **Power Combiner VOR/GS**

Frequency 08-118 MHz & 329-335 MHz



Two input—one output Power Combiner is standard equipment with Comant's Cl 120G/S and Cl 135-300. As the Cl 135-300 typical configuration requires two Cl 120-3 Power Combiners, the Cl 120G/S only requires one. **P/N Cl 120-3** 



Model	Cl 120-3 Power Combiner VOR/GS
Electrical	
Frequency	108 to 118 & 329 to 335 MHz
Power Split	3 dB
VSWR	1.5:1 maximum
Insertion Loss	1.5 dB maximum
Isolation	20 dB minimum
Amplitude Balance	± 0.5 dB
Impedance RF	50 OHMS (nominal)
Phase	180° ± 5° between antenna ports
Mechanical	
Weight	0.1 lbs. maximum
Height	0.97" maximum
Material	Die cast aluminum
Finish	Aluminum
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specifications	
RTCA Environmental	D0-160C
Environmental Category	[A2F2]-AC[CLMY]
<b>C</b> ,	XRXXXSXXXXXXC
FAA TSO	C34c, C36c, C40a
RTCA MOPS	DO-192, DO-195, DO-196
Order Options	
Connector	
BNC	Standard

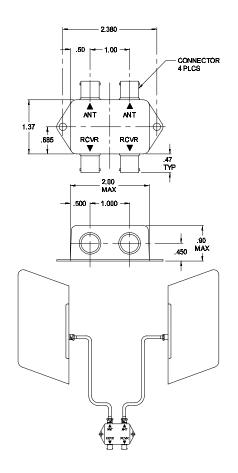
Model	Cl 120-4 Power Combiner VOR/GS
Electrical	
Frequency	108 to 118 & 329 to 335 MHz
Power Split	6 dB
VSWR	1.5:1 maximum
Insertion Loss	0.5 dB maximum
Isolation	20 dB minimum
Amplitude Balance	± 0.5 dB
Impedance RF	50 OHMS (nominal)
Phase	180° ± 1° between antenna ports
	0° ± 5° between receiver ports
Mechanical	
Weight	0.1 lbs. maximum
Height	0.90" maximum
Material	Die cast aluminum
Finish	Aluminum
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specifications	
RTCA Environmental	D0-160C
Environmental Category	[A2F2]-AC[CLMY]
	XRXXXSXXXXXXC
FAA TSO Order Options	C34c, C36c, C40a
Connector	
BNC	Standard

#### **Power Combiner VOR/GS**

Frequency 108-118 MHz & 329-335 MHz



Two input—two output Power Combiner is standard for either antenna system. The Cl 120-4 provides for two separate cable runs to the avionics installation for NAV 1 and NAV 2 receivers. **P/N Cl 120-4** 

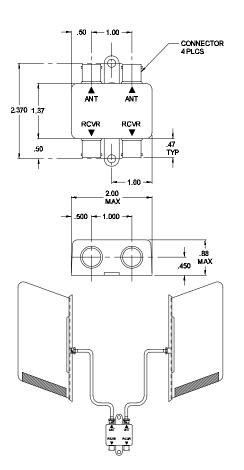


#### **Power Combiner VOR/GS**

Frequency 108-118 MHz & 329-335 MHz



Two input—two output Power Combiner is standard equipment with Comant's CI 120-200G/S-L as supplied to Cessna. The CI 120-5 provides for two separate cable runs to the avionics installation for NAV 1 and NAV 2 receivers. P/N CI 120-5



Model	Cl 120-5 Power Combiner VOR/GS
Electrical	
Frequency	108 to 118 & 329 to 335 MHz
Power Split	6 dB
VSWR	1.5:1 maximum
Insertion Loss	1.5 dB maximum
Isolation	20 dB minimum
Amplitude Balance	± 0.5 dB
Impedance RF	50 OHMS (nominal)
Phase	180° ± 1° between antenna ports
	$0^{\circ} \pm 5^{\circ}$ between receiver ports
Mechanical	
Weight	0.1 lbs. maximum
Height	0.88" maximum
Material	Die cast aluminum
Finish	Aluminum
Connector	BNC (female)
Environmental	
	Internal mount
Federal Specification	IS
RTCA Environmental	D0-160C
Environmental Category	[A2F2]-AC[CLMY]
<b>.</b> .	XRXXXSXXXXXXC
FAA TSO	C34c, C36c, C40a
RTCA MOPS	DO-192, DO-195, DO-196
Order Options	
Connector	
BNC	Standard

# Comant Antenna Cross Reference

WARNING: Because manufacturer's specifications may change, we cannot be responsible for errors or omissions that may be contained in this Cross-Reference. It is the buyers and/or installers responsibility to confirm the applicability of any model suggestion shown in this chart.

VHF Communication         Met Communication         Distribution           C108         Distribution         Distribution           C108         Distribution         Distribution           C121         Distribution         Distribution           C123         Distribution         Distribution <t< th=""><th>222</th><th>DM C60-1 DM C70-1/A DM C70-1/A</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	222	DM C60-1 DM C70-1/A DM C70-1/A						
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about the second sec		M C70-4			596-664	AV-10		12-50-01
Inded Frequency     35-5039       Inded Frequency     35-5039       Inded Frequency     72-384-100-003       L     72-384-100-003		111 0/0-4			683-725	AV-17		
35-5039       35-5039       35-5039       added Frequency       122-384-100-003       L       72-384-100-003       L       1006965       nsponder       nsponder       1006965		DM C70-6						
35-5039       35-5039       35-5039       aded Frequency       72-384-100-003       L       1006965       nsponder       nsponder       1006965					552-539			
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72-384-100-003       L     72-384-100-003       ter     72-384-110-003       ided Frequency     102-384-110-003       ided Frequency     100-905       ided Frequency     1006965       ind Radiotelephone     1006965       insponder     1006965	10-222							
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k FM Receive nd Radiotelephone nsponder						AV-14		
k FM Receive nd Radiotelephone In 1006965 nsponder		DM C63-3/A						
k FM Receive Ind Radiotelephone Insponder		DM C63-4/A						
nd Radiotelephone 1006965 nsponder					683-719			
1006965 isponder								
1006965 Isponder						AV-15		
25 1006965 1ansponder 2 2 3 4 4 6 6 6 6 7 1006965 1006965 1006965 1006965 1006965 1006965 1006965 1006965 1006965 1006965 1006965 10069		DM C57-1						
ransponder 2 3 4 5 6								
6 4 9								21-37-01
6 5		DMNI 50-3						
60 13		0MNI 50-4				AV-741		
CI 101 CI 105-6		DMNI 50-6						
CI 105-6						AV-22		
		DMNI 70-2						
Cl 105-7		DMNI 70-1						
CI 105-16			KA 60					
CI 110-40-3		DMNI 70-1						
CI 110-41-3		DMNI 50-2					S65-5366-7L	
CI 110-41-5			 				S65-5366-11L	

ARTEX	BEECH	DAYTON GRANGER	DORNE & Margolin	GARMIN	HONEYWELL	MOONEY	NORTHSTAR	PIPER	RA MILLER	SENSOR SYSTEMS	TRIVEC
DME/Transponder CI 110-61-3			DM C50-3							S65-5366-10LC	
CI 110-61-5			DMNI 50-6						AV-10	S65-5366-10L	
CI 305		DG 15980									
CI 305-3		DG 15982									
Marker Beacon CI 102						310071		597-893			
CI 118		DG EMB10-14									
CI 118-5	101-384179										
CI 118-9					KA 26						
Glide Slope Cl 193		DG RGS10-48									
VOR/GS CI 120G/S		VT10-56-6/15960	DM N4-17								
CI 157P								551-993			
CI 158C-2	71-411-081-00										
CI 158C-3	71-411-082-00										
CI 159C								598-539			
VOR CI 135-100			DMNI4-33								
CI 135-300			DMN4-15/DMN4-45								22-30-01
CI 205-1		16525	DMN48-1								
GPS											
CI 401-5-A					KA 91						
CI 401-21-A										S67-1575-21	
CI 401-32-A										S67-1575-16	
CI 405-7				0 1 0	KA 92		AN120				
CI 405-26 CI 405 22				GA 56						<u>67 1575 20</u>	
CI 403-33										85-0/01-/00	
CI 318-1B 870-2025		DG ELT 10-214-2									
CI 317 870-0317											
CI 317-1 870-1317											
CI 319-1 870-3137											
Couplers C1 En2		חה 11830/חה חתריח.	DM H21_1						A\/_5/7		
01 502 01 502									15-12		
CI 500		DG DMR20-20									
CI 505 CI 505		DG 14850	DM H23-1					556-795	AV 571		
CI 505 TNC						312602					
CI 507		DG GSNC20-05	DM H22-1						AV 570		
CI 1125	4845-39086	DG 16010	DM H69-1					556-753			

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