Comant CI 429-410

ComDat WAAS GPS/XM

2008 Data Sheet

The most important thing we build is trust

CI 429-410 ComDat WAAS GPS/XM

Comant has developed the first and only FAA TSO'd GPS/XM antenna qualified under new, stringent C190 WAAS requirements. Using the popular ARINC 743 footprint, this WAAS GPS will operate with any DO-301 qualified WAAS GPS system providing full Gamma 2 & 3 and LPV capabilities.

The XM portion of the antenna will operate with popular panel mounted systems from Garmin and Heads Up.

Manufactured with a tough, Skydrol resistant radome and nickel plated aluminum base plate, the CI 429-410 comes standard with a Nitrile 'O' ring for positive sealing to the aircraft skin.

Applications

Most aircraft up to and including business jets. Consult your FBO or installation shop for best application information.

Frequencies Covered

GPS 1575.42 MHz/ 26.5 dB gain

XM 2332.5 - 2345.0 MHz/ 25.0 dB gain

Specifications

GPS Preamplifier Characteristics	
Frequency	1575.42 +/- 10.23MHz
VSWR	1.5:1
Polarization	RHCP
Radiation Pattern	Omnidirectional
Impedance	50 Ohms (Nominal)
Gain @ 1575.42 MHz	26.5dB MIN - 32.5dB MAX
DC Voltage	4 to 24 VDC
DC Current Min/Max	40mA TYP / 60mA MAX
Noise Figure	2.5dB MAX
Stability	Unconditional

XM Weather Data Specification	
Frequency	2332.5 to 2345.0MHz
VSWR	1.5:1
Polarization	LHCP
Radiation Pattern	Omnidirectional
Impedance	50 Ohms (Nominal)
Gain	25 +/- 2dB
DC Voltage	3.6 to 24 VDC
DC Current Min/Max	35 to 55mA
Noise Figure	2.7dB MAX

Mechanical / Environmental	
Weight	8.5 Oz. MAX
Connectors	GPS TNC / XM TNC
RTCA Env. / TSO	DO-160E / C190

WARNING: Use factory supplied drawings and specifications for installation. Refer to FAA AC 43.13-2B for installation guidelines.

For further information please contact:

Cobham SATCOM Airborne Systems
577 Burning Tree Road
Fullerton, California 92833 USA
Tel: (01) 714-870-2420
Fax: (01) 714-870-5133
Email: comant@cobham.com