

# Comant CI 2680-500

ComDat VHF/GPS/XM/DL

# COBHAM

2008 Data Sheet

The most important thing we build is trust

## CI-2680-500 ComDat VHF/GPS/XM/DL

Comant's ComDat triple function extended band VHF/GPS/XM Weather antenna for twin and light jet aircraft. Comant's patented technology provides 80 dB of VHF harmonic suppression allowing VHF and GPS to function in one radome without in-line filters.

Compatible with Avidyne Narrowcast datalink systems. Requires Avidyne's DC50 coupler switch for dual VHF/Data Link functionality.

Certified FAA TSO-C144 for GPS and GPS WAAS Class Gamma 1 equipment. Not compliant for GPS WAAS Class Gamma 2 and 3 applications.

Designed for popular 26.5 dB gain GPS panel mount systems. Not compatible with most portable receiver systems.

## Applications

Single and twin engine piston aircraft for applications of this antenna design. Some light turbine and light jets. Consult your FBO or installation shop for best application information.

## Frequencies Covered

VHF 118-150.05 MHz  
GPS 1575.42 MHz / 26.5 dB Gain  
XM 2332.5 - 2345.0 / 30 dB Gain

## Specifications

Specifications	VHF	Data Link
Frequency	118-137 MHz	137-150.05 MHz
VSWR	2.9:1 Maximum	2.9:1 Maximum
Polarization	Vertical	Vertical
Radiation Pattern	Omni Directional	Omni Directional
Impedance	50 Ohms	50 Ohms
Power Rating	50 Watts	50 Watts
<b>Amplifier Specifications</b>		
	<b>GPS</b>	<b>XM Weather</b>
Frequency	1575.42 +/-3 MHz	2332.5-2345.0 MHz
VSWR	1.5:1 Max.	1.5:1 Max.
Polarization	RHCP	LHCP
Radiation Pattern	Hemispherical	Hemispherical
Impedance	50 Ohms	50 Ohms
Gain	26.5-31.5 dB	30 -34 dB
DC Voltage	4 - 24 Vdc	4 - 24 Vdc
DC Curr. Min/Max	25mA / 40mA	25mA / 55mA
Noise	3.8 dB Max	2.7 dB Max
<b>Mechanical / Environmental</b>		
Weight	1.25 lb Maximum	
RTCA Env. / TSO	DO 160D / C37d, C38d, C144	
Connectors	VHF - BNC / GPS - TNC / XM - SMA	



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

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