

A-186 GPS/GLONASS DUAL ANTENNA



Features

- ✦ GPS/GLONASS dual band
- ✦ IPX6 waterproof
- ✦ 2-stage LNA
- ✦ 10 watt RF suppression protection
- ✦ Wide power supply range
- ✦ Short circuit protection
- ✦ RoHS compliant

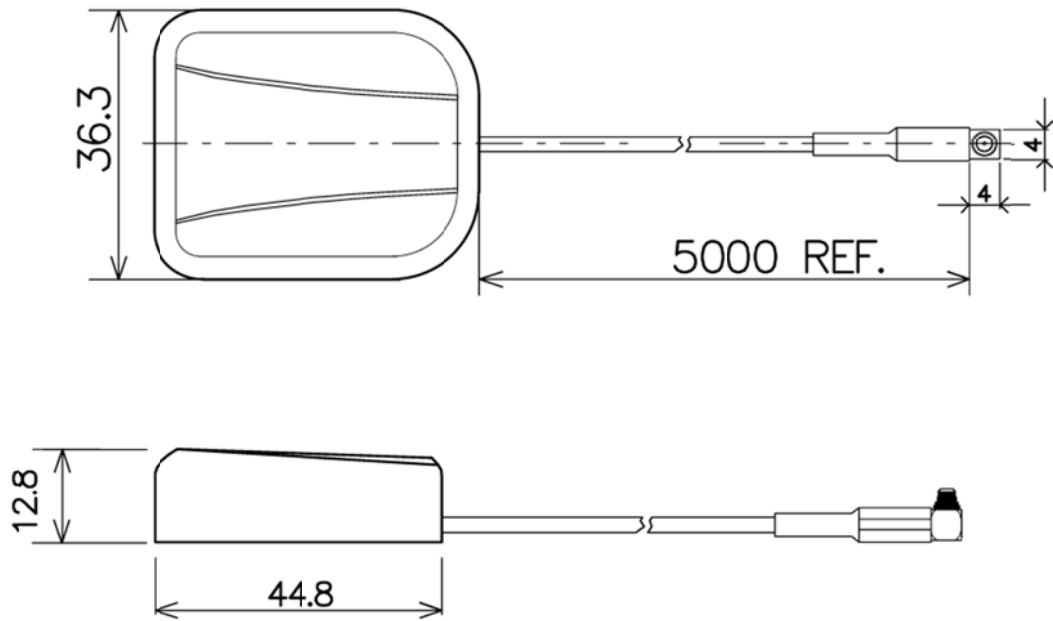
Specifications

Frequency	1575.42MHz ± 10 MHz 1602 MHz ± 5MHz
Gain	28 ± 1 dB (3m cable)
V.S.W.R.	<2.0
Noise Figure	1.0 typical
Band Width	26.6 MHz min. @S11< -10dB
Impedance	50Ω typical
Polarization	Right-hand circular (R.H.C.)
Patch antenna Gain	3.0 dBic typical
Power Supply	2.8 ~ 5.0V DC
Power Consumption	8 mA max. @ 3V, 7 mA max.@ 5V (typical)
Dimension	45mm(L) x 36.3 mm(W) x 12.7mm(H)
Operating Temperature	-30°C~ +85°C
Storage Temperature	-40°C ~ +85°C
Coax Connector	BNC, SMB, Fakra, SMA, MCX, MMCX, GT5 or on request
Cable Length	3M, 5M or upon request
Coax Cable	Low loss RG-174
Mount	Magnetic and/or 3M sticker

NOTE:

- Avoid running the antenna cable next to other antenna cables from two way radios, cell phones, etc.
- Do NOT lengthen/shorten the shielded antenna cable
- Take special care when plugging and unplugging the antenna connector
- Take extreme care in handling and not to place the antenna under any metal structure surface such as a metal roof rack

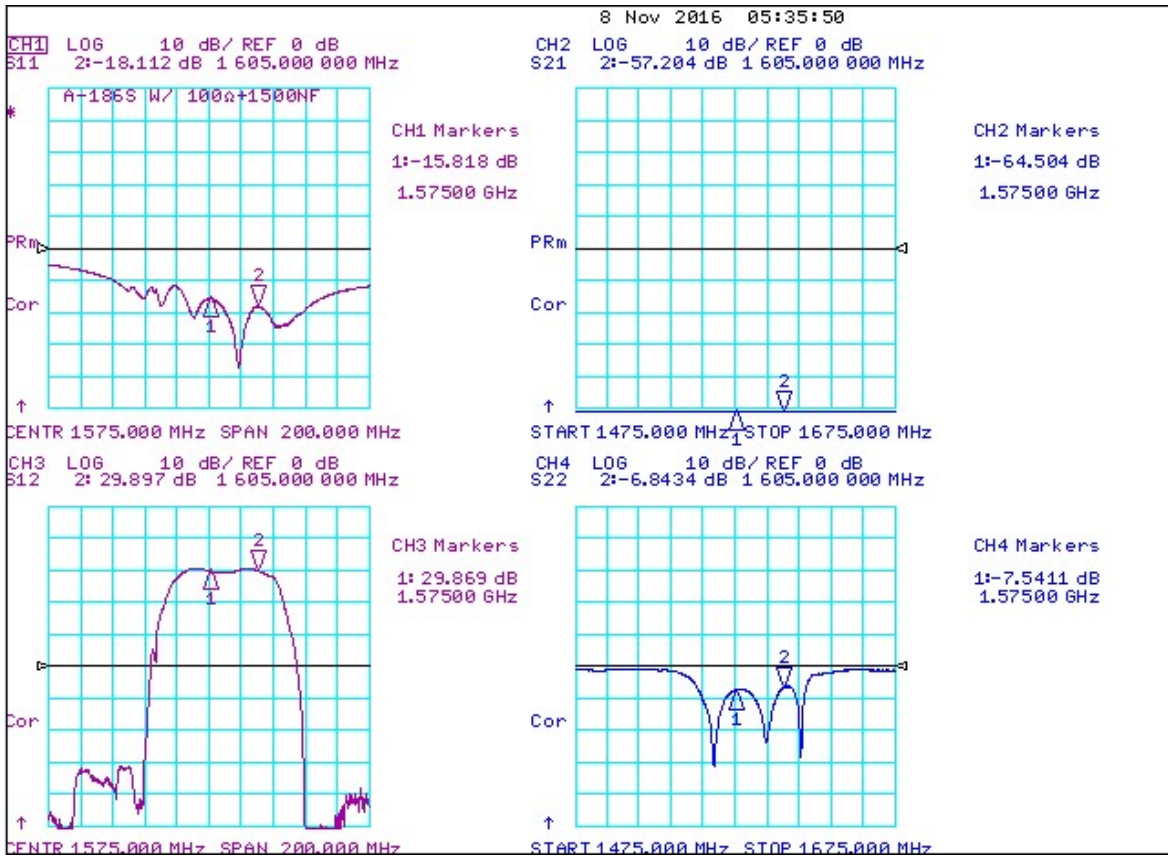
Mechanical Diagram



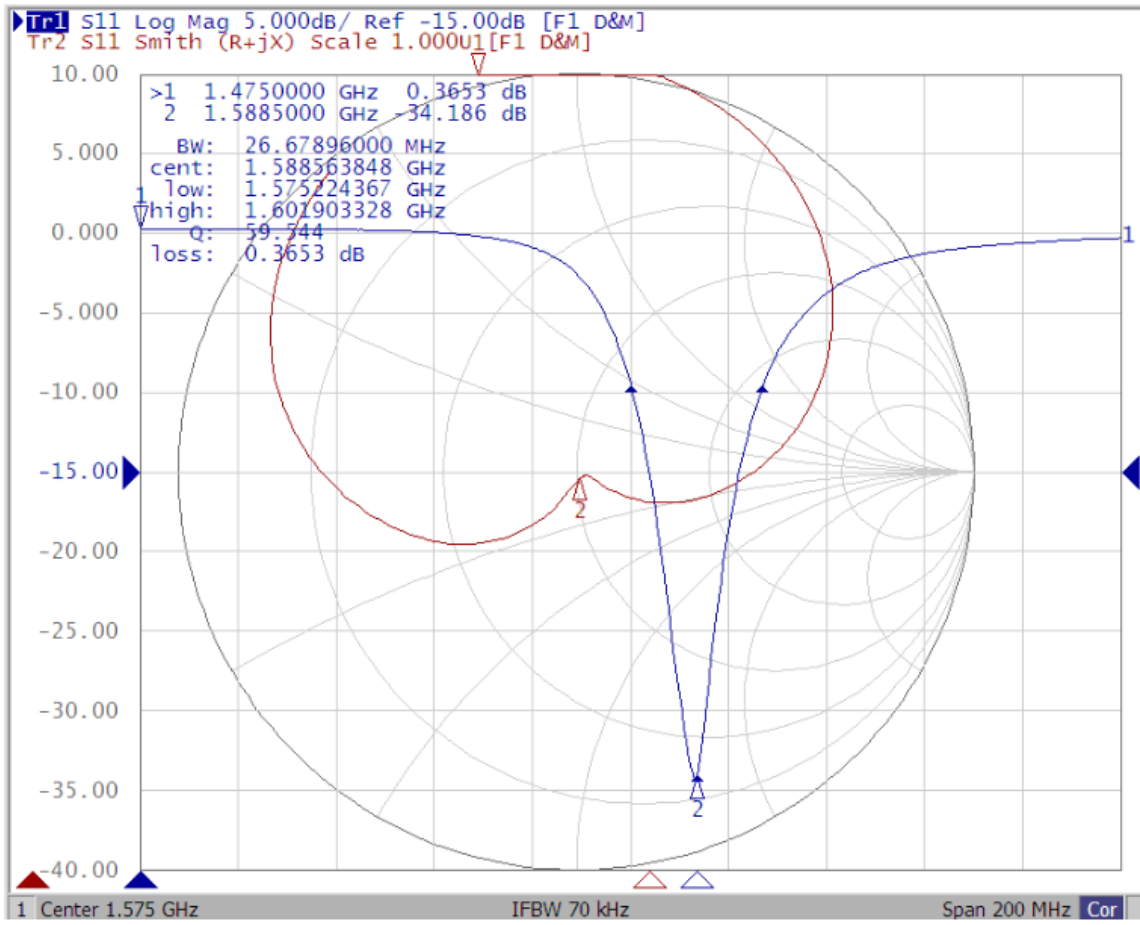
TOLERANCE: $\pm 0.5\text{MM}$

Test Reports

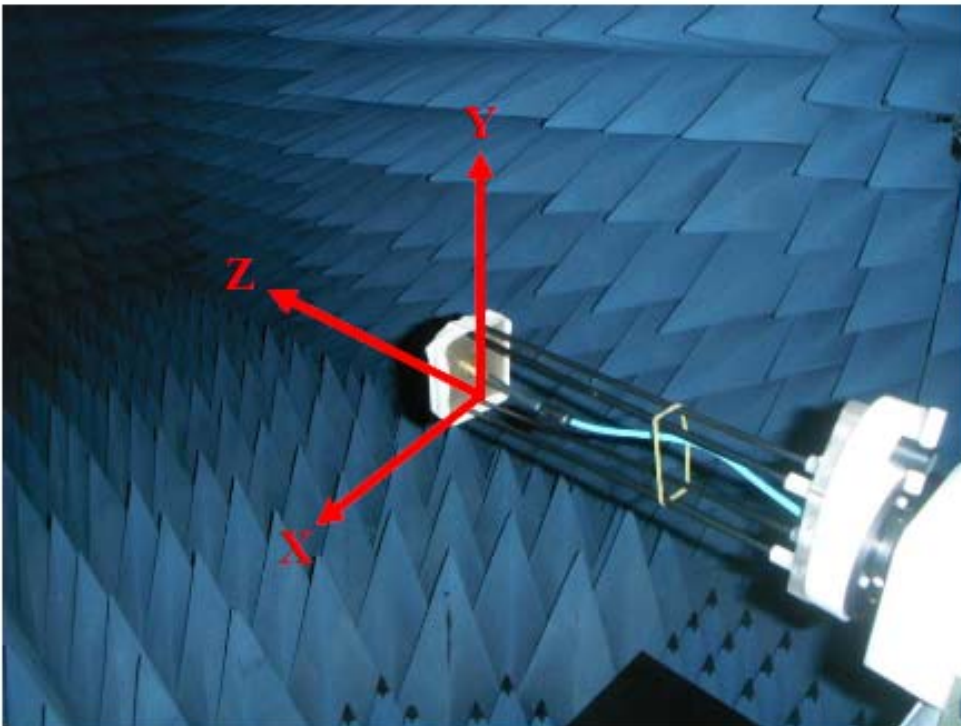
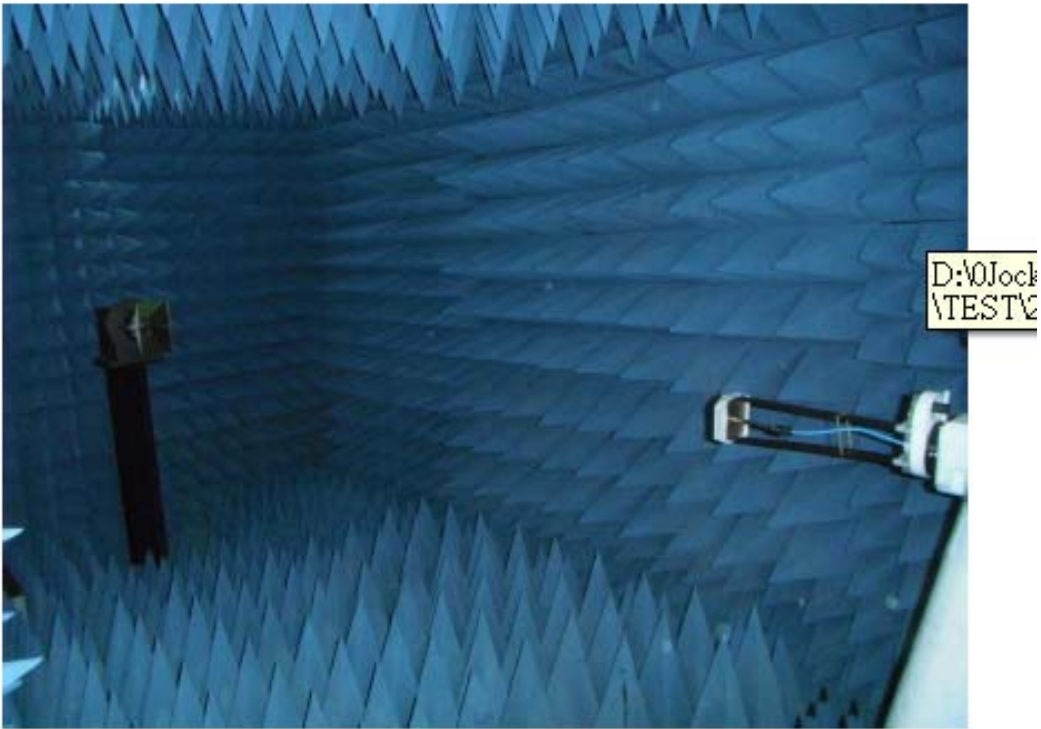
Return loss and Gain



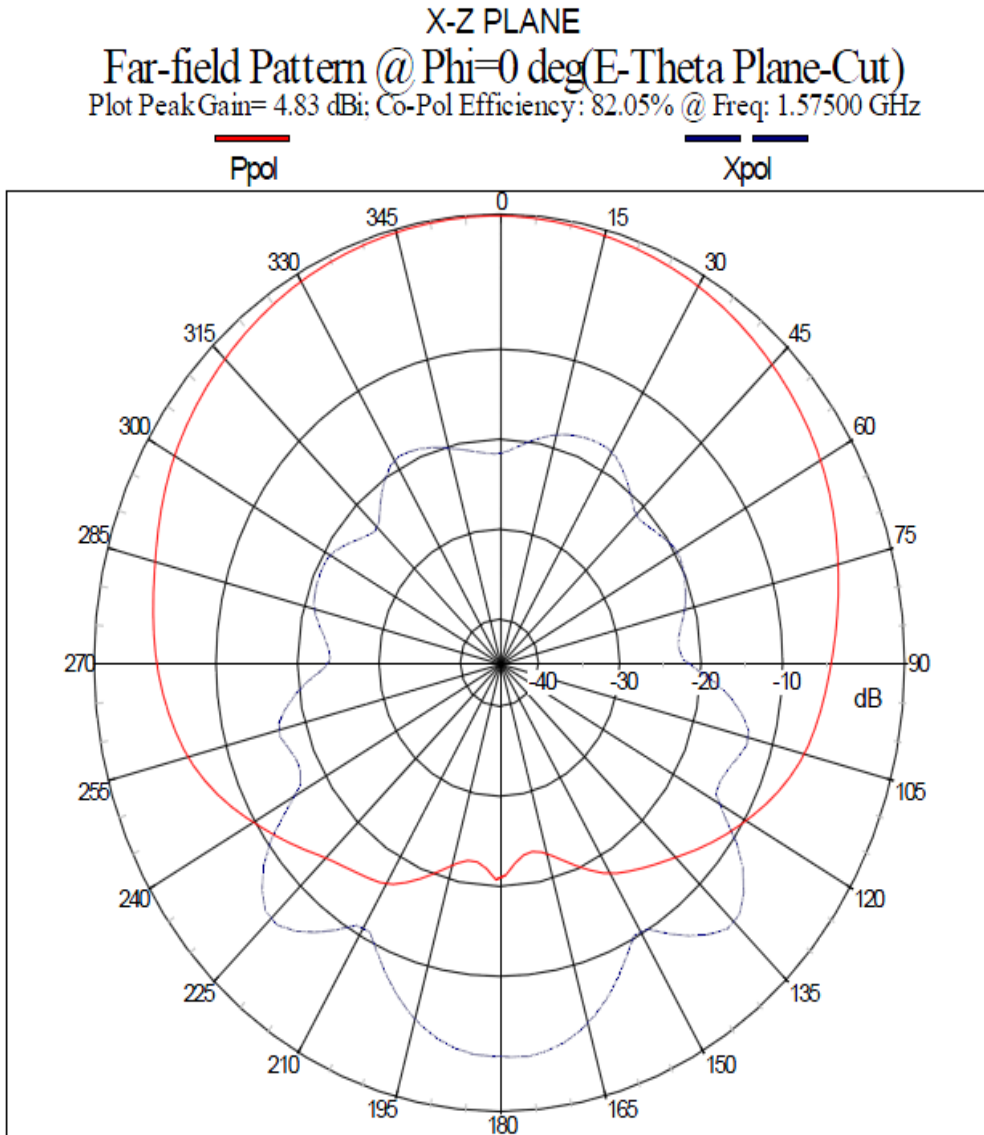
Bandwidth



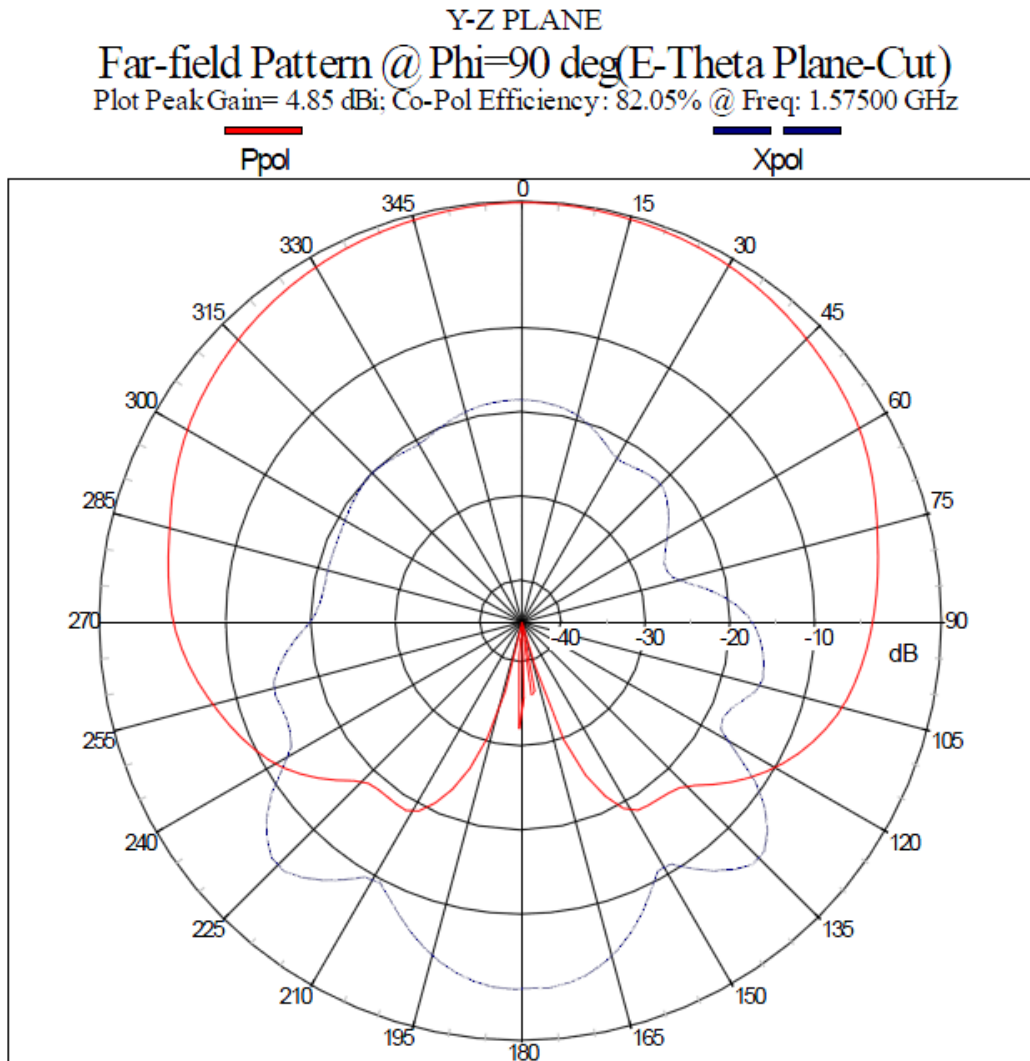
Patch Antenna Setup



Patch Antenna Pattern: X-Z Plane



Patch Antenna Pattern: Y-Z Plane



Patch Antenna Pattern: X-Y Plane

