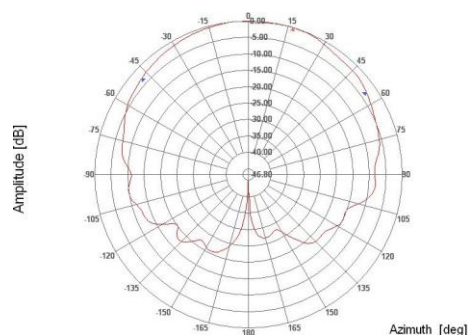
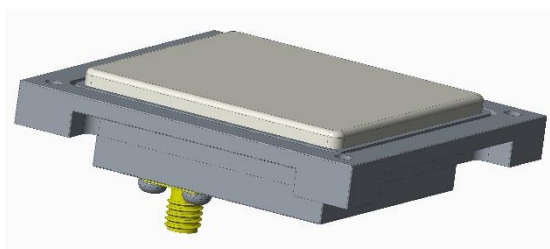
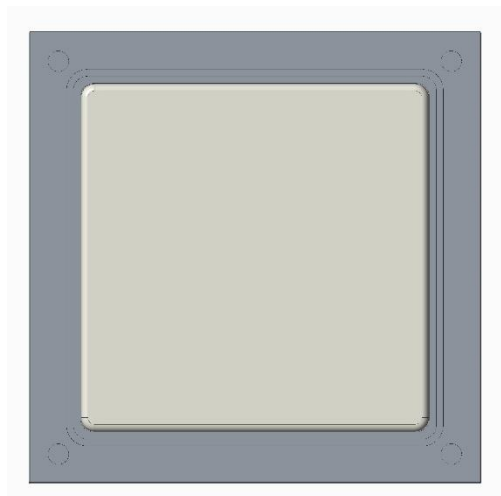
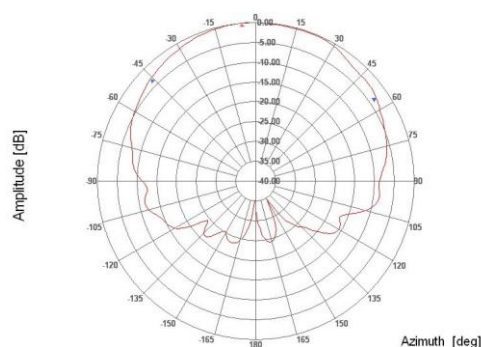


GPS/GLONASS ANTENNA – TTSLNGGB6 - 16

The TTSLNGGB6-16 antenna operates at the GPS L1 and GLONASS L1 band frequencies with high performance making it suitable for combined GPS and GLONASS signal reception. The antenna has a wide beam width with good axial ratio.



Radiation pattern at GPS-L1 band.



Radiation pattern at GLONASS-L1 band

Key Features

- Compact in Size
- Wide Beam width
- Good Axial Ratio

Technical Specifications

Electrical Specifications	
GPS L1	1575 MHz (± 10 MHz)
GLONASS L1	1598 MHz-1606 MHz
Galileo E1	1575 MHz (24 MHz)
BeiDou B1	1561 MHz (4 MHz)
VSWR	$\leq 2.0 :1$
Passive Gain	$> +3.5\text{dBi}$ at Bore sight or better
3dB Beam width	$> 90^\circ$
LNA Gain	30 ± 2 dB
LNA Power Consumption	5V - $< 100\text{mA}$
Out of Band Rejection	60dB
Noise Figure	≤ 2.0 dB
Output Impedance	50 Ohms
Axial Ratio	< 3 dB
Lightening Protection	DC Grounding
Power Handling	1 Watt
Connector	SMA - (F)

Environmental Specifications	
Mounting	Standard Screw Mounting
Operating Temperature	-40°C to $+80^\circ\text{C}$
Storage Temperature	-40°C to $+80^\circ\text{C}$
Humidity	95% RH at 45°C

Environmental Stress Screening	
Mechanical Vibration	MIL-STD-810G / JSS 55555
Functional Shock	MIL-STD-810G / JSS 55555
Crash hazard	MIL-STD-810G / JSS 55555
Temperature and Altitude	MIL-STD-810G / JSS 55555
Humidity	MIL-STD-810G / JSS 55555
Temperature Shock	MIL-STD-810G / JSS 55555
Salt Fog	MIL-STD-810G / JSS 55555
Fungus	MIL-STD-810G / JSS 55555
Sand and Dust	MIL-STD-810G / JSS 55555
EMI & EMC	MIL-STD-461F

Mechanical Specifications	
Dimension Excluding Connector (L x W x H)	Length 65 ± 1 mm Width 65 ± 1 mm Height 17 ± 1 mm
Weight	< 200 grams.