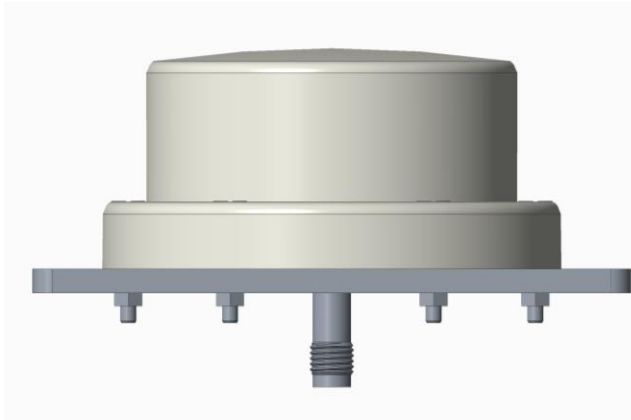


DUALBAND ANTENNA – TTSLGGNL - 23

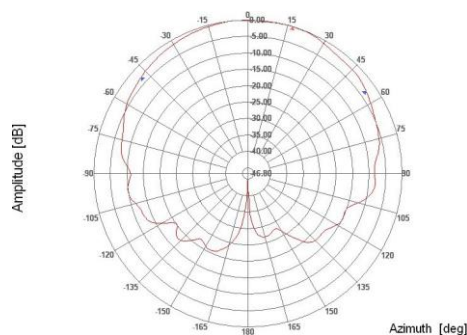


The TTSLGGNL- 23 is a High-Performance Rugged DUAL band GNSS Antenna designed to operate at GPS L1, GLONASS L1 and IRNSS L5 bands making it suitable for Multi Constellation GNSS signal reception. The Antenna has a good gain in each of the bands with a low noise figure GNSS based Navigational Applications

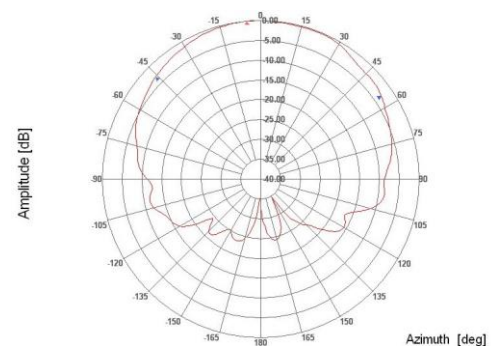
The TTSLGGNL- 23 antenna operates at the IRNSS L5, GPS L1 and GLONASS L1 band frequencies with high Performance making it suitable for combined IRNSS, GPS and GLONASS signal reception. The antenna has a wide beam width with good axial ratio.

Key Features

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



Radiation pattern at GPS-L1 band.



Radiation pattern at IRNSS-L5 band

Technical Specifications

Electrical Specifications	
IRNSS L5	1174 to 1178 MHz
GPS L1 /GLONASS L1	1570 to 1607 MHz
Galileo E1	1575 MHz (24 MHz)
BeiDou B1	1561 MHz (4 MHz)
VSWR	$\leq 2.0 :1$
Passive Gain	>3dBiC at Bore sight or better
3dB Beam width	>90°
LNA Gain	30 \pm 2 dB
LNA Power Consumption	5V - < 100mA
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 +125°C
Storage Temperature	-40°C to +125°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 (OD x H)	90 mm x 25 mm
Mounting Plate Dimension (L x W x H)	130 x 130 x 4
Weight	< 500 grams.