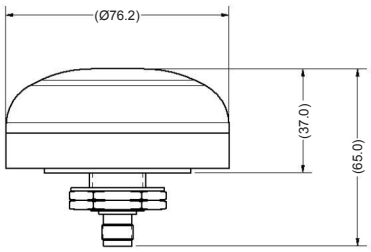
Multi-GNSS High Performance Antenna

GNSS Systems: 1150 - 1290 MHz (GPS L2/L5; GALILEO E5A/E5B/E6; GLONASS L2/L3; BEIDOU B2/B3)
1500 - 1615 MHz (GPS L1; GALILEO E1; GLONASS L1; BEIDOU B1/B1-2)

The GNSS-L125-TNC is a multi-GNSS high performance antenna designed to meet stringent AAR environmental standards. The antenna features a multi-stacked patch design covering global GNSS frequencies, a multi-stage LNA and advanced filtering to combat the effects of adjacent band interference. The antenna has a hermetic seal, is AAR tested and approved.





GNSS-L125-TNC

Features

- Full Multi-GNSS Compatibility
- Advanced Out-of-Band Filtering
- AAR Compliant
- Excellent Multipath Mitigation
- IP67 ingress protection

Applications

- PTC Rolling Stock Tracking
- Military Vehicle Tracking & Asset Tracking
- Precision Agriculture
- Differential Correction

ELECTRICAL SPECIFICATIONS - ALL BANDS

LNA Gain	Nominal Impedance	Polarization	ESD Protection	VSWR	Noise Figure	DC Voltage	DC Current	Out-of-Band Rejection	
28dB ± 3dB	50 ohms	Right Hand Circular	>15kV	<2.0:1 (typ.)	3.0 dB (typ.)	2.5-12.0 VDC	37 mA (typ.) <50 mA (max.)	<1050 MHz >80 dB <1125 MHz >30 dB >1350 MHz >70 dB	<1450 MHz >70dB >1690 MHz >30dB >1730 MHz >80dB

ELECTRICAL SPECIFICATIONS - BAND SPECIFIC

Band	Gain @ 10° Elevation	Gain @ 90° Elevation	Axial Ratio @ 30° Elevation	Axial Ratio @ 45° Elevation	Axial Ratio @ 90° Elevation
GPS L1	-5 dBic	2 dBic	≤ 2.5 dB	≤ 2.5 dB	≤ 2.5 dB
GPS L2	-6 dBic	3 dBic			
GPS L5	-7 dBic	1 dBic			
GLONASS L1	-7 dBic	0 dBic			
GLONASS L2	-8 dBic	0 dBic			
GLONASS L3	-4 dBic	3 dBic			
GALILEO E1	-5 dBic	2 dBic			
GALILEO E5	-4 dBic	3 dBic			
GALILEO E6	-4 dBic	3 dBic			
BEIDOU B1	-4 dBic	3 dBic			
BEIDOU B1-2	-4 dBic	3 dBic			
BEIDOU B2	-5 dBic	2 dBic			
BEIDOU B3	-8 dBic	0 dBic			

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Antenna Dimensions	Antenna Weight	Connector	Mounting Method	Radome Color	IP Rating	Radome Seal	Environmental Rating
3.0" D x 1.46" H (76.2 x 37 mm)	7.4 ounces	TNC Female	3/4" thru-hole or bracket	White	IP67	Rubber Gasket	AAR Compliant