

## GNSS Antenna

GNSS Antenna L1+L2

Excellent performance as part of a GPS-over-Fiber solution.

- Dual Frequency – GPS L1 and L2 bands
- Weatherproof housing, proven extra rugged, reliable
- Extended temperature range (-40°C / +85°C)



### Order Information

Item Description	Item Number
GNSS ANT L1+L2 3.3V	85160014
GNSS ANT L1+L2 5V	85170543

### Electrical Data

Parameters		Value		Remarks
		3.3V (85160014)	5.0V (85170543)	
Gain	dB	32dB @ 25°C	36dB ± 3	
Frequency	MHz		L2 1227.6 ±3 L1 1588 ±3	
VSWR			Maximum 2.0	
Polarization			RHCP	
Axial ratio	dB		<3	
Noise	dB		Maximum 3.3	(25°C ± 5°C)
Bandwidth (10dB RL)	MHz		L1: 30 (min) L2: 15 (min)	
Out of band rejection			fo=1575.42 MHz fo ±50 MHz: 30 dB min fo ±100MHz: 40dB min fo=1227.60 MHz fo ±50 MHz: 30 dB min fo ±100MHz: 40dB min	
Blocking 1dB Compression Point			100MHz to 1.5GHz >+15dBm 1.5GHz to 1.575GHz Linear decrease from +15dBm to -40dBm over frequency range 1.575GHz to 1.65GHz Linear increase from -40dBm to +15dBm over frequency range 1.65GHz to 3GHz >+15dBm	
Azimuth coverage			360° (omni-directional)	
Elevation coverage			0°-90° elevation (hemispherical)	
Supply voltage V	VDC	3.3 (±10%)	5.0 (±10%)	± 10%
Power Consumption	mA	<20	<35	
Output Impedance	Ohm		50	
RF connector (output)			TNC (female)	Adapter to SMA <a href="#">22640940</a> Adapter to N <a href="#">22640637</a>

### Environmental

Operating Temperature	°C		-40 to+90	
Storage Temperature	°C		-40 to+90	
Vibration			10 – 200 Hz Log sweep 3g (Sweep time 30 minutes) 3 axes	
Shock			50g vertical, 30g all axes	
Humidity Soak			+60°C @ 95% RH, 96 hours	
Corrosion Salt Resistant			5% Salt spray tested, 96 hours	