GNSS Timing Reference Antennas

GNSS1-TMG-26N Series



Global GNSS Timing Reference Antenna

GNSS Systems Covered: GPS L1, GALILEO E1, GLONASS L1 & BEIDOU B1 (COMPASS)



PCTEL's GNSS1-TMG-26N global GNSS timing reference antennas are specifically designed for long-lasting, trouble-free deployments in congested cell-site applications. The low noise, high gain amplifier is well suited to address attenuation issues associated with applications requiring longer cable runs.

The proprietary quadrifiliar helix design, coupled with multi-stage filtering provides superior out-of-band rejection and lower elevation pattern performance than traditional patch antennas. This multi-band antenna covers GPS L1, GALILEO E1, GLONASS L1 as well as BEIDOU B1 (COMPASS) frequencies.

Their unique radome shape sheds water and ice, while eliminating problems associated with bird perching. PCTEL offers an array of compatible mounting configurations. Custom models or site kits options are also available.

This antenna is made of materials that fully comply with provisions stipulated by EU directives RoHS 2002/95/EC. The antenna features transient voltage suppression as well as protection from reverse polarity and electrostatic discharge (ESD).



GNSS1-TMG-26N (Top) GPS-TMG-MNT (Bottom left) GPS-TMG-LMNT (Bottom right)

STANDARD CONFIGURATION				
Model	Connector	Mount	Radome	
GNSS1-TMG-26N		Does not include mounting hardware.		
GNSS1-TMG-26NMS	N Female (one - bottom fed)	Includes universal mounting hardware consisting of collar (GPS-TMG-MNT) and pipe clamp (GPS-TMG-LMNT)	Color: White	
GNSS1-TMG-26NCM		Includes collar mount (GPS-TMG-MNT)		
GNSS1-TMG-26NCS		Includes economy collar marine mount (GPS-TMG-MRNMNT)		

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA					
Model	Frequency Range	LNA Gain	Element Gain	Out of Band Rejection	VSWR
GNSS1-TMG-26N	1554-1615 MHz	26.5 dB \pm 3 dB @ GPS L1/GALILEO E1 24.5 dB \pm 3 dB @ GLONASS L1/BEIDOU B1	≥ 3 dBic	≥ -45 dB @ f ≤ 1530 MHz ≥ -45 dB @ f ≥ 1660 MHz	< 2.0:1

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued					
Model	Noise Figure	Current Draw	DC Voltage	Nominal Impedance	Polarization
GNSS1-TMG-26N	< 2.5 dB @ +25°C including pre-selector	< 35 mA	3.3-9.0 V (operating) ≤ 28.0 V (survivability)	50 ohms	Right hand circular

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MECHANICAL SPECIFICATIONS				
Model	Dimensions	Weight	Housing Material	
GNSS1-TMG-26N	5.0" H x 3.2" D (126 H x 81 mm)	0.6 lbs (0.3 kg)	ASA	

ENVIRONMENTAL SPECIFICATIONS				
Model	Temperature Range	Humidity		
GNSS1-TMG-26N	-40°C to +85°C	95%		