

M1561HCT-22P-MR

High Performance Passive GPS/GLONASS/Beidou Antenna

Part #: 100-00042-06



Description

The M1561HCT-22P-MR is a rugged high performance passive antenna designed for the GPS/GLONASS/Beidou band, and built on Maxtena proprietary Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1561HCT-22P-MR is a screw-on design, featuring an integrated SMA connector. The ultra-light design is rated IP-67 when both mounted and unmounted for added protection. This product is designed for applications requiring high quality reception of GPS signals.

Electrical Specification

Parameter	Design Specificat	tions	
Frequency	1575 MHz	1602 MHz	1561 MHz
Polarization	RHCP		
Antenna element peak gain	-0.5 dBic (typical)		
Efficiency	25% (typical)		
Bandwidth (-1dB)	20 MHz		
Axial Ratio	1 dB (typical) / 1.5 d	dB (max)	
VSWR	1.5 (max)		
Impedance	50 Ohm		
Operating temp.	from -40°C to 85°C		
RF connector	SMA		
Overall dimensions	38 mm (height) x 18	3.5 mm (diameter)	

Features

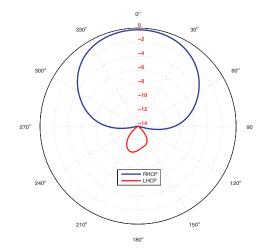
- · GPS/GLONASS/Beidou bands
- Very low axial ratio
- IP-67 mounted and unmounted
- Ultra light weight
- · Ground plane independent

Applications

- · Vehicle and fleet tracking
- Military & security
- Asset tracking
- · Seismic recording instruments
- · Oil & gas industries
- Navigation devices
- · Mining equipment
- LBS & M2M applications
- · Handheld devices

Realized gain plot

Measured at 1575 MHz

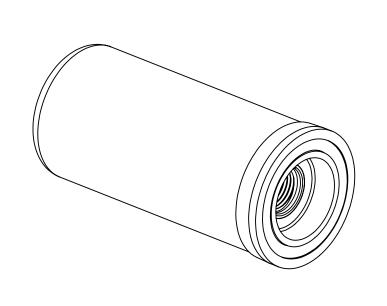




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SEE NOTE 6

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NOTES:

- FREQUENCY (GPS/GLONASS/Beidou): 1575 MHz, 1602 MHz, 1561 MHz
- CONNECTOR TYPE: SMA-MALE.
- HOUSING MATERIA: ABS/PC.
- COLAR: BLACK.
- DUST AND WATER-RESISTANCE: IP67.

RECOMMEND A 8.55 MM MOUNTING HEIGHT FOR MOUNTING INTERFACE SEALING AND ELECTRICAL CONNECTION.

7. ASSEMBLY TORQUE SHALL BE NO MORE THAN 8 IN*LB.

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UNLESS OTHERWISE SPECIFIED:		NAME	DATE	MAXTENA, INC					
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	MFG APPR.			M1561HCT-22P-MR					
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TOLERANCING PER: THIRD ANGLE PROJECTION	CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY		SIZE B					RE\	
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ANTENNA SITTING ON THIS SURFACE

STANDARD SMA

BULKHEAD CONNECTOR-