

Description

The M1580HCT-22-P is a high-performance passive antenna designed for the GPS L1, GLONASS and Galileo (E1) bands, and built on proprietary Helicore[®] technology. This technology provides exceptional pattern control, polarization purity, and high efficiency in a very compact form factor. The M1580HCT-22-P is designed for embedded applications and features an integrated 3-pin connector. This product is designed for applications requiring high-quality reception of GPS, GLONASS and Galileo (E1) signals. The ultra light design weighs only 2 grams making this antenna ideal for the most demanding, mechanically constrained platforms including handheld devices, asset tracking, seismic recording instruments, and many more.

Electrical Specifications*

Parameter	Design Specifications		
Frequency	1575 MHz (GPS)		
	1602 MHz (GLONASS)		
	1176.45 MHz (Galileo)		
Polarization	RHCP		
Antenna element peak gain	-0.5 dBic (typical)		
Efficiency	25% (typical)		
Bandwidth (-1dB)	(-5 dB) 50 MHz (typical)		
Axial Ratio	1 dB (typical) / 1.5 dB (max)		
VSWR	1.5 (max)		
Impedance	50 Ohm		
Operating temp.	from -40°C to 85°C		
RF connector	3 Pin OR U.FL		
Weight	2 grams		

* Declared peak gain and reported radiation pattern are intended for a rotationally symmetrical plastic radome.



Features

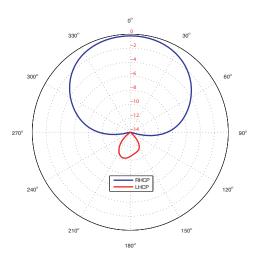
- · GPS, GLONASS and Galileo (E1) bands
- · Very low axial ratio
- · Easy integrate 3 pin connector
- Ultra lightweight 2 grams
- · Ground plane indepedent

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

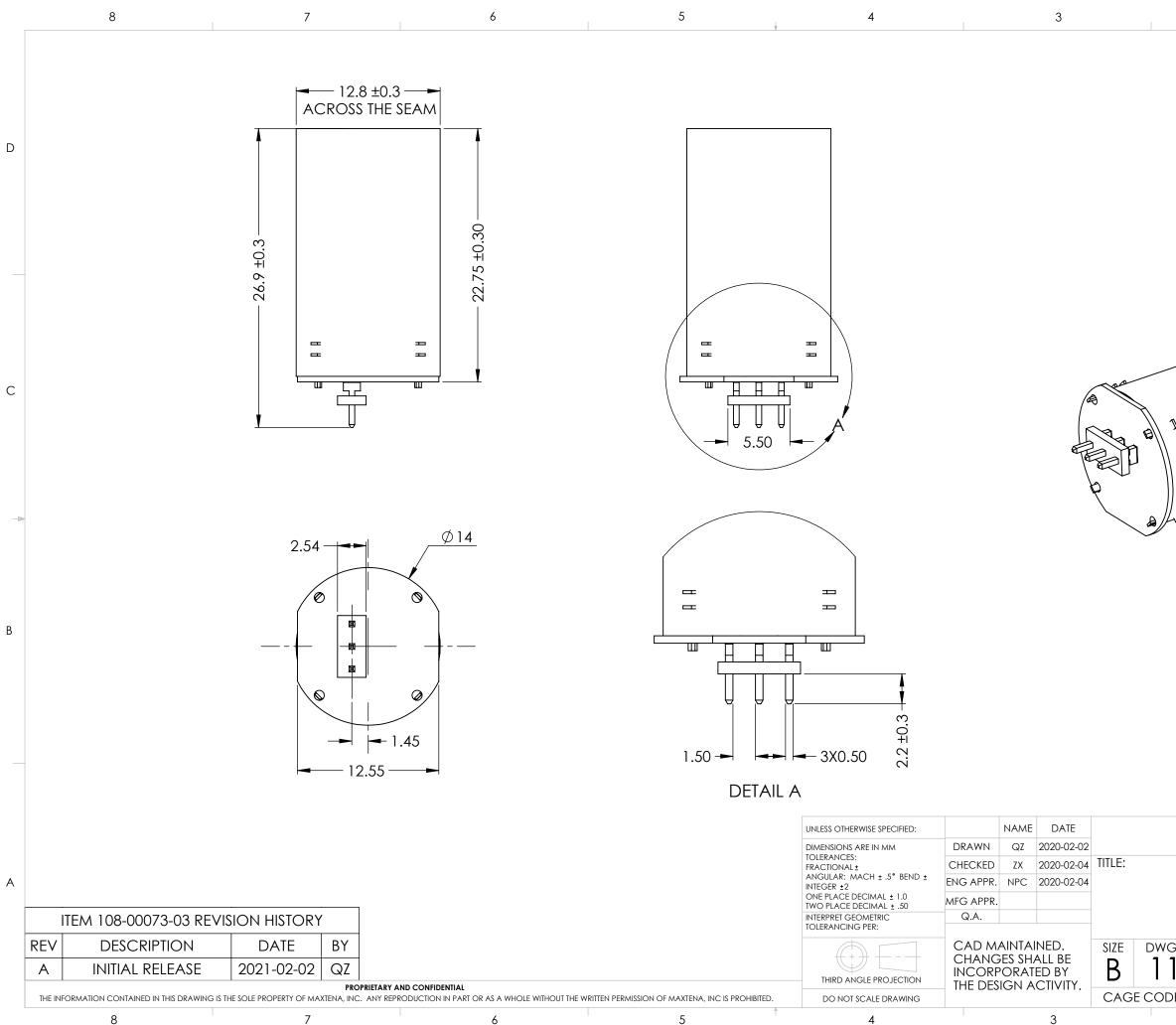
Measured at 1575 MHz



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