

SPECIFICATION

Part No.	:	GP.1575.18.4.A.02
Product Name	:	Miniature GPS/GALILEO Patch Antenna
Features	:	18mm*18mm*4mm ROHS Compliant



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1. Introduction

This ceramic GPS/GALILEO patch antenna is based on smart $XtremeGain^{TM}$ technology. It is mounted via pin and double-sided adhesive and has been selected as optimal solution for the 50x50mm ground plane.

2. Specification Table

Original Patch Specification tested on 50*50mm ground plane

No	Parameter	Specification	
1	Center Frequency	1575MHz +/- 3MHz**	
2	Impedance	50Ω	
3	Bandwidth	8MHz min Return Loss <-10dB	
4	VSWR	1.5 max	
5	Gain toward Zenith	+2.5 dBic typ.	
6	Gain at 10°Elevation	-4.5 dBic typ.	
7	Axial Ratio	3dB Max. Center Frequency	
8	Polarization	Polarization Right Hand Circular Polarization	
	Frequency Temperature		
9	Coefficient (Tf)	0 ± 20ppm/°C	
10	Operating Temperature	-40°C to +85°C	

**Changes in user groundplane and environment will offset centre frequency



Electrical Specification

2.1. Smith Chart





3. Dimensions and Drawing





3.1. Layout Dimension



TEL:±0.20 UNIT:mm

*Note Layout Dimensions may be affected by the thickness of the PCB

4. Test Jig and Dimensions





4.1. Test Fixture Antenna Setup & Measurements





5. Packaging

- Per Tray: 25 pieces
- Per Carton(Inside Box) 8 Trays = 200 pieces
- Outer Carton (Outside Box)- 4 Cartons = 800 pieces







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