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GNSS Antenna

CGMP165

GPS and GLONASS SMD Antenna

INTRODUCTION

The CGMP165 is a compact, high-performance GNSS antenna designed for reliable satellite signal reception across GPS and GLONASS bands. Built with a dielectric ceramic substrate and optimized for right-hand circular polarization, it delivers strong signal capture, low reflection loss and stable performance in space-constrained designs.

APPLICATIONS

This antenna is ideal for position and navigation applications where accuracy and consistency are critical. Typical use cases include asset tracking devices, automotive navigation systems, telematics units, drones and wearables.

Key Specifications

Embedded SMD Antenna
Covering GPS and GLONASS bands

- Antenna Size: 25mm x 25mm x 4.0mm
- Frequency: 1575 MHz (GPS) and 1602 MHz (GLONASS)
- Impedance: 50 Ω
- Polarization: Right-hand circular
- Peak Gain: 3.3 dBi
- VSWR: ≤2.0

Materials

Constructed with a dielectric ceramic substrate and silver-plated electrodes, ground base, and feed point.

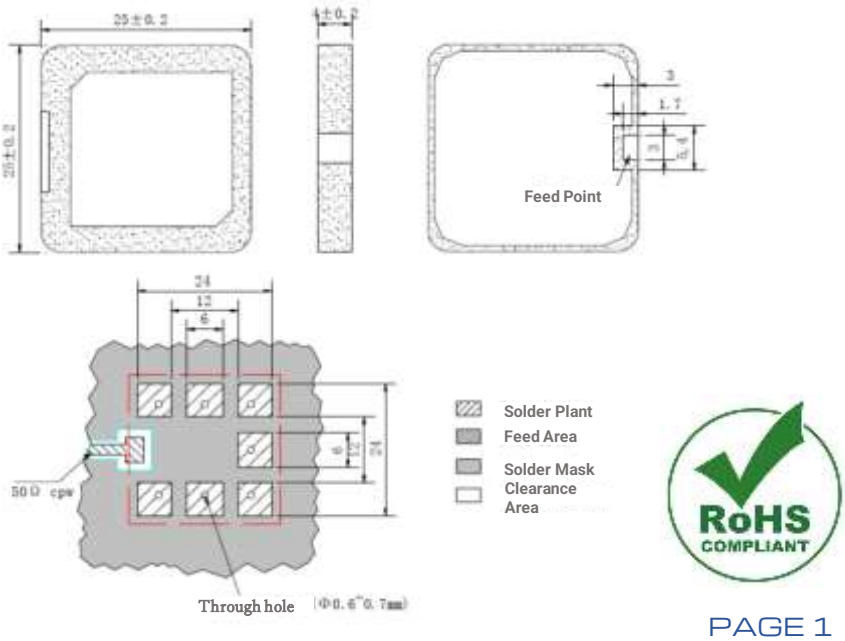
Operating Conditions

- Operating temperature range is -40ºC to +85ºC
- storage temperature range is -40ºC to +110ºC

Soldering and Handling

- Recommended peak reflow temperature is 210240ºC for 5-10 seconds.
- It is and electrostatic device and must be used within 24 hours of opening or be vacuum resealed.

Dimensions (unit: mm)



Contact Details:

US: +1-3213931039
TW: +886-963383713
KR: +82-1047149824
IN: +91-9967297130
Email: sales@skymirr.com
Website: www.skymirr.com

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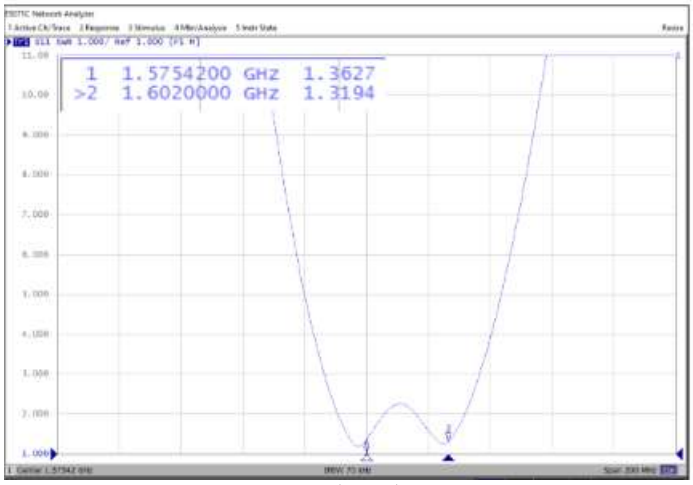
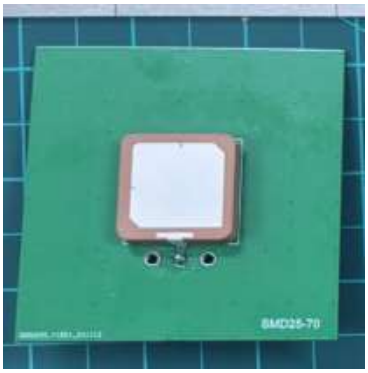
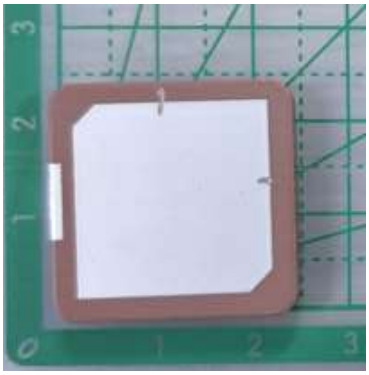
ITEMS	Specifications	
Frequency[Mhz]	1575.42 (GPS L1)	1602 (GLONOSS G1)
Peak Axial Ratio (dB)	2.88	0.61
Typical Peak Gain (dBic)	3.14	3.36
VSWR	Less than 2 : 1	
Impedance	50Ω	
Polrarization	RHCP	
Direcitivity	Directional	
Frequency Temperature Coefficient	0±10 ppm/℃	

VSWR







※ EVB size : 70 x 70mm

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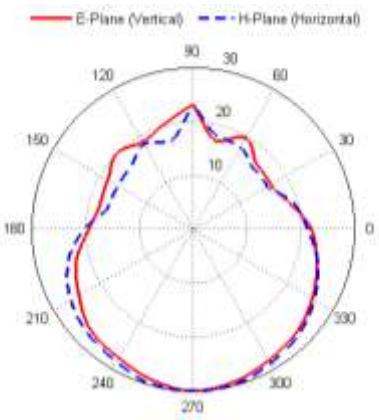
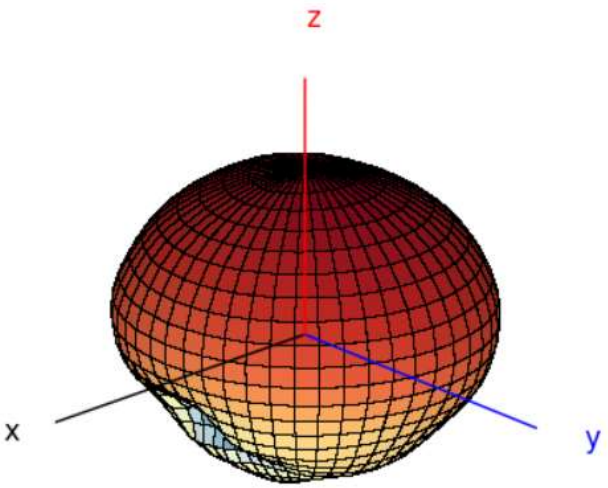
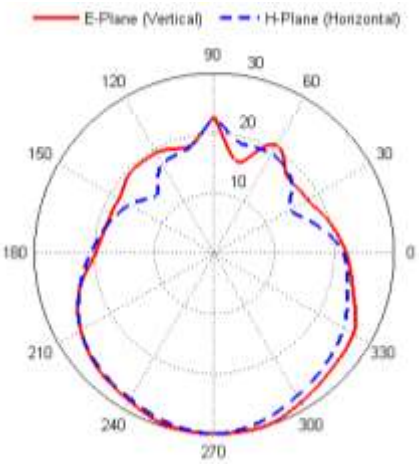
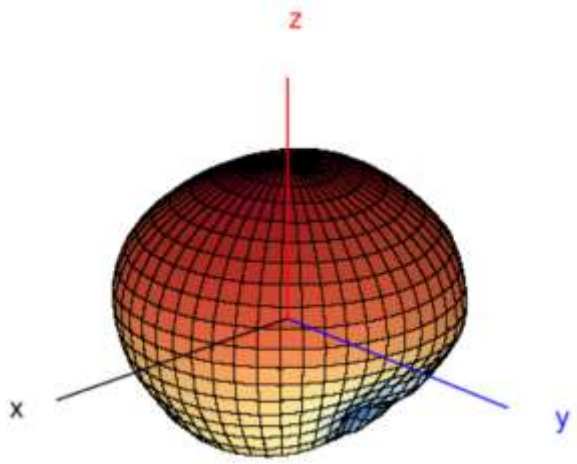
Radiation Pattern





1575.42MHz





1602MHz

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