

2J4600MPG

Cellular and GPS/GLONASS Magnetic/Adhesive Mount

Key Features

Cable 1: Cellular

- 824-960 MHz

- 1710-2170 MHz

Cable 2: GPS/GLONASS/QZSS/Galileo

- 1575-1610 MHz

Magnetic/Adhesive Mount

Ground Plane Independent

Customizable Cable and Connector

Dimensions 50 × 40 × 12.5/13.5 mm



1. Antenna and electrical specifications

Cable 1

Parameters	Cellular Antenna	
Standards	2G and 3G	
Band (MHz)	850/900	1700/1800/1900/2100
Frequency (MHz)	824-960	1710-2170
Return Loss (dB)	~-13.5	~-15.8
VSWR	~1.8:1	~1.5:1
Efficiency (%)	~28.2	~20.7
Peak Gain (dBi)	~-0.42	~-2.6
Average Gain (dB)	~-5.8	~-6.9
Impedance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	25	
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length	300 cm Standard (Any Cable Length Available)	
Cable Type	RG174 Standard (Other Cables Available)	

Cable 2

Parameters	GPS/GLONASS Antenna	
Standard	GPS/QZSS/Galileo	GLONASS
Band (MHz)	1575	1602
Frequency(MHz)	1575.42	1598-1610
Patch Size (mm)	25 × 25 × 4	
Return Loss (dB)	~-25 dB	
VSWR	~1.1:1	
Impedance	50	
Radiation Pattern	Hemispherical	
Axial Ratio (dB)	3 Max.	
Polarization	RHCP	
Saw Filter	No Filter	
Active Gain (dB)	26-28 @ 3-5 V	
Noise Figure (dB)	1.2 @ 5V	
Voltage (V)	2.7 - 5.5	
Current (mA)	15-35	
Power Consumption (mW)	40-138	
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length	300 cm Standard (Any Cable Length Available)	
Cable Type	RG174 Standard (Other Cables Available)	

Antenna Measurement Conditions:

Mounted on 30 x 30 cm Metal Plate

200 cm of RG174100 Cable

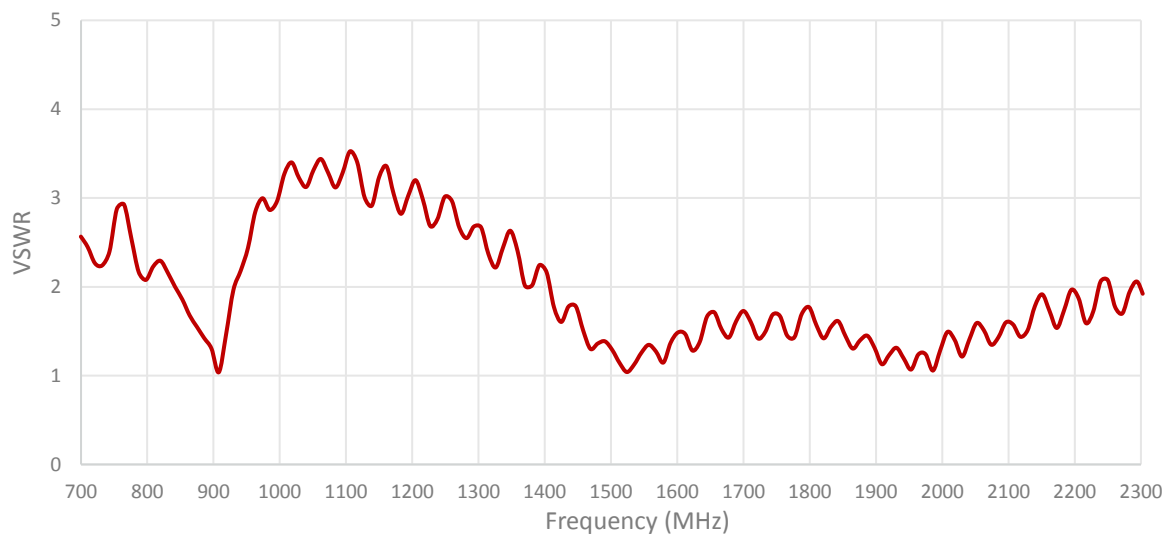
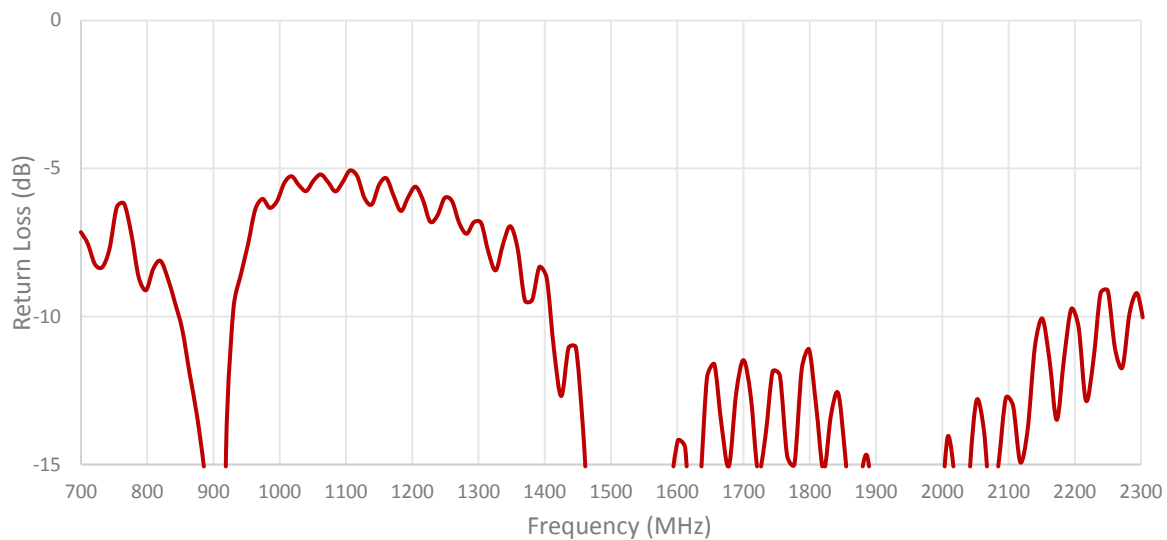
Measured in Certified CTIA 3D Anechoic Chamber

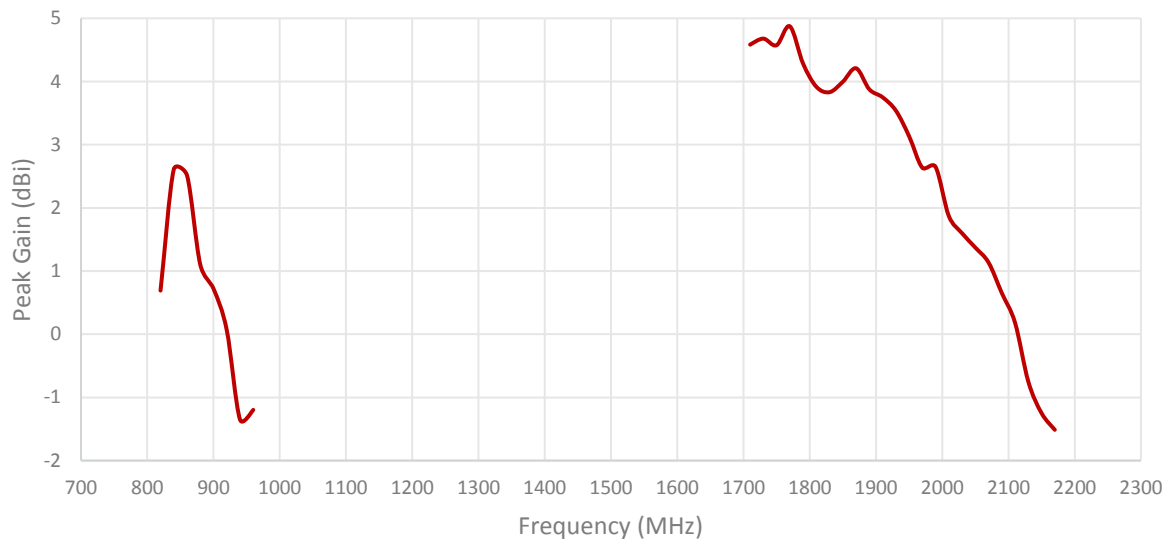
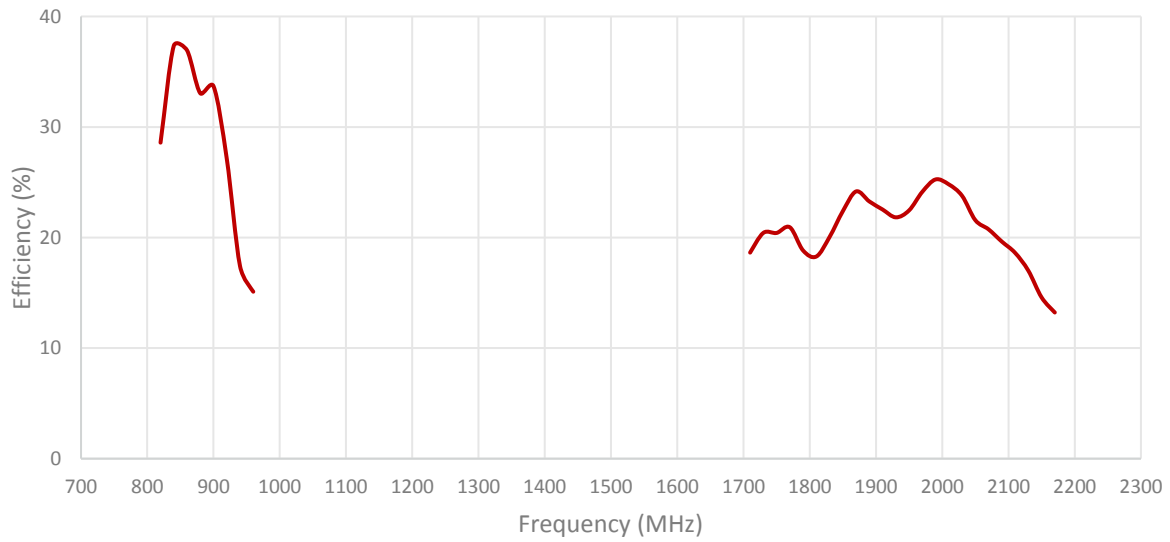
2. Mechanical and environmental specifications

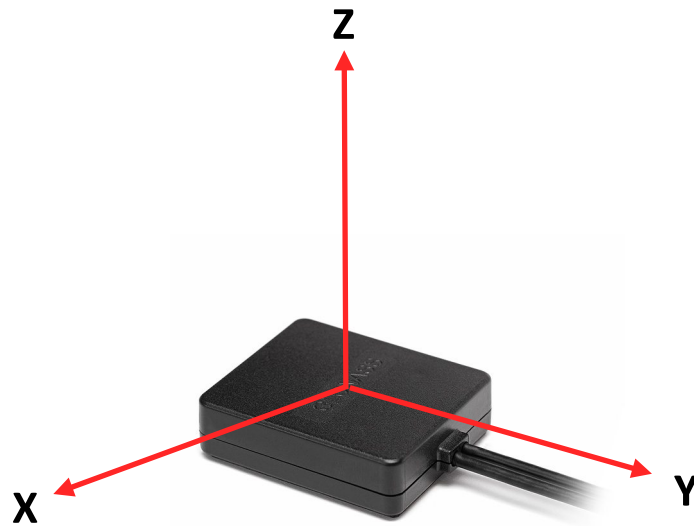
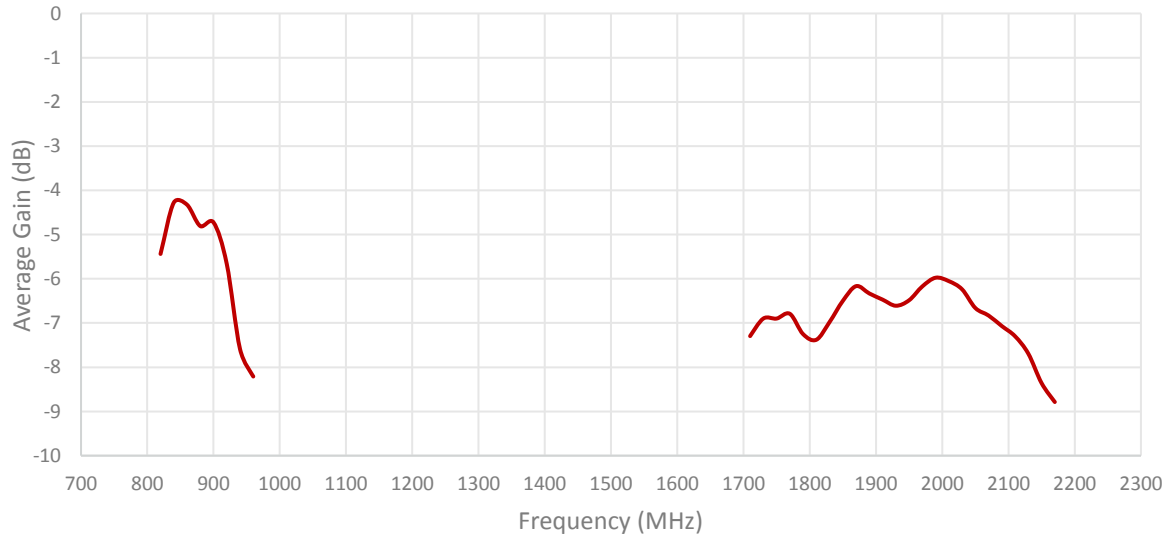
Specifications	2J4600MPG
Mounting Type	Magnetic/Adhesive Mount
Dimensions (mm)	50 × 40 × 12.5/13.5
Radome	ASA
Radome color	Black
Antenna Base	ASA
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

3. Antenna parameters

Cable 1: Cellular

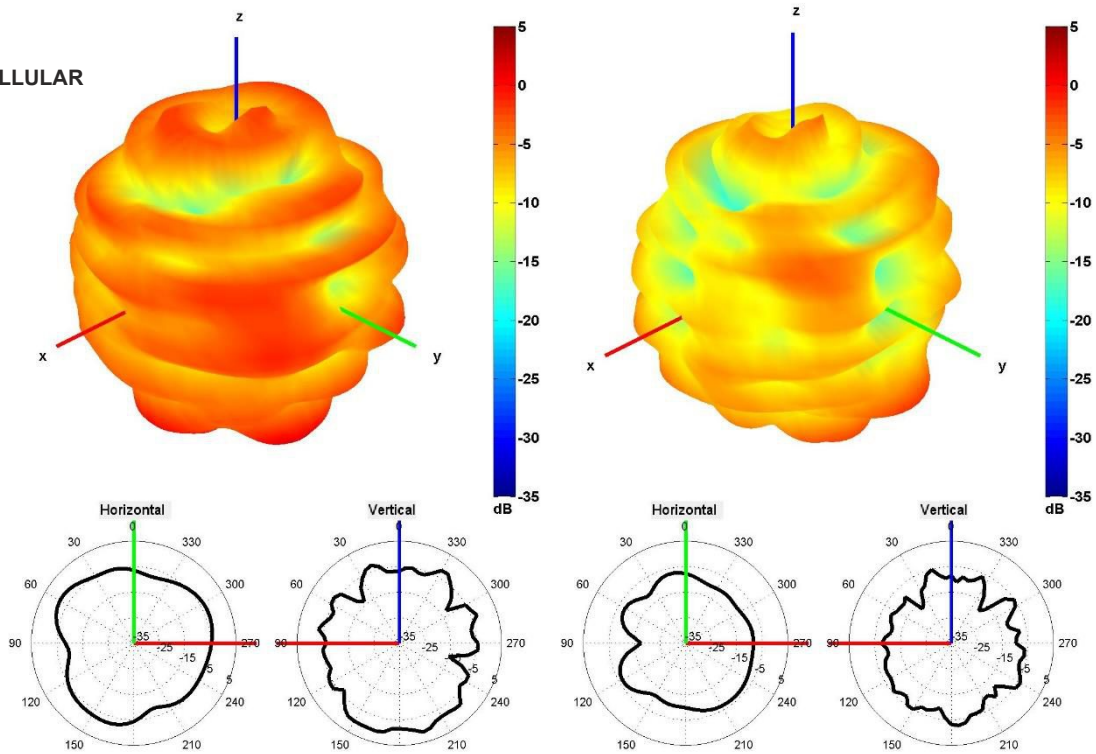




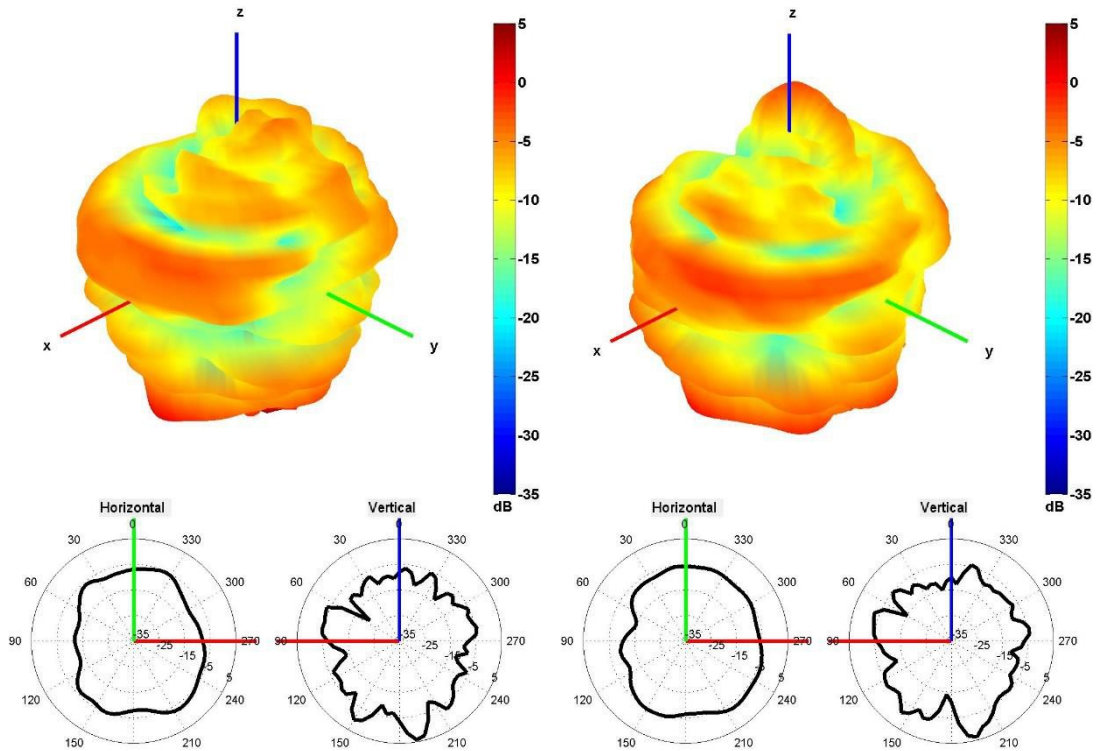


Radiation pattern reference

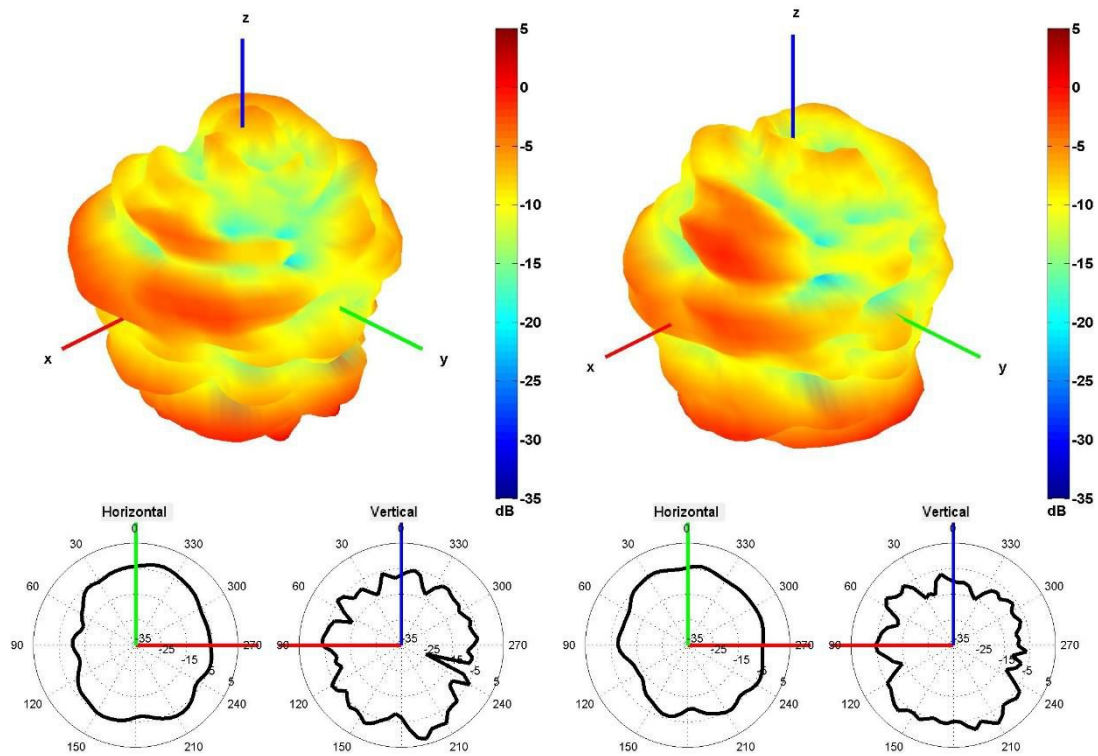
Cable 1: CELLULAR



850 and 940 MHz Radiation pattern

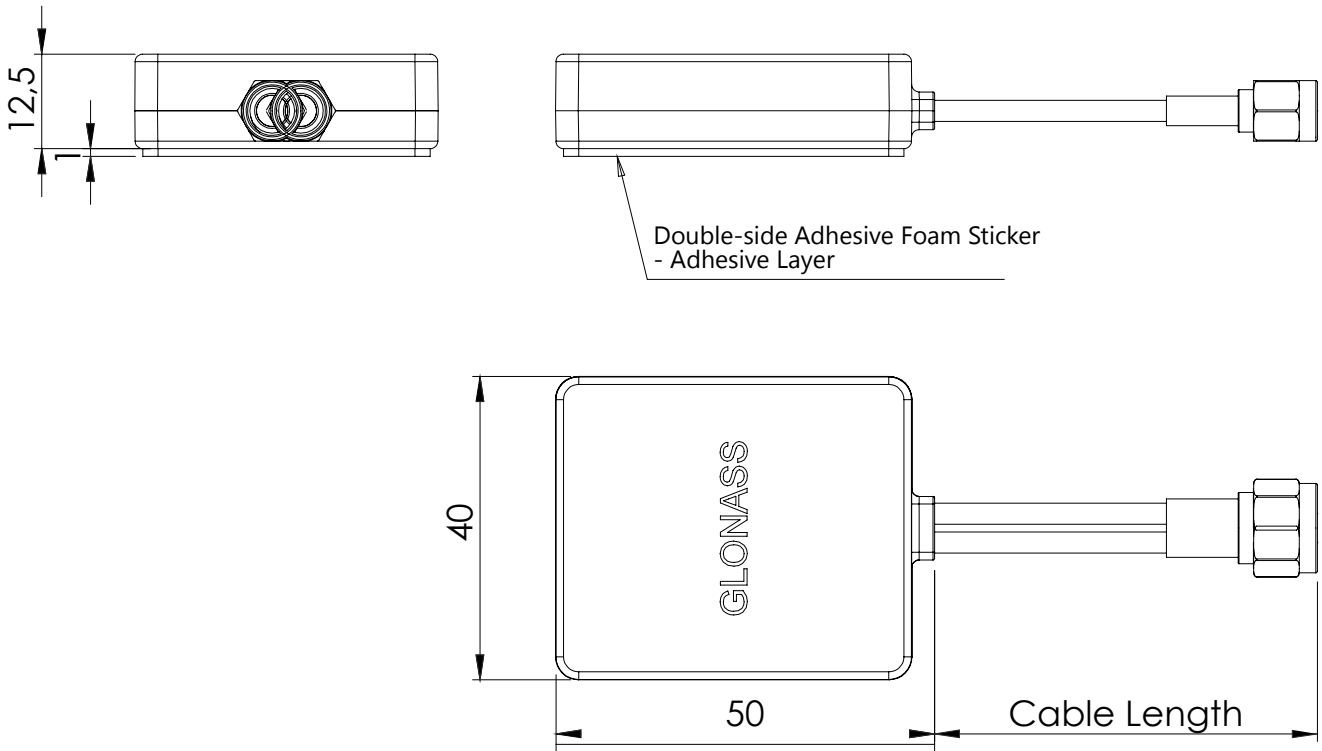


1750 and 1850 MHz Radiation pattern



1950 and 2100 MHz Radiation pattern

4. Antenna drawings



Note: Dimensions are in millimeters

5. Antenna Images

