

AMC-ANT-2J4941PGF

4G LTE and GNSS adhesive mount antenna

Features

- **Cable 1: Cellular/LTE**
 - 698 – 960MHz
 - 1710 – 2170MHz
 - 2500 – 2700MHz
- **Cable 2: GPS/GLONASS/QZSS/Galileo**
 - 1575 – 1606MHz
- Adhesive mount
- High performance
- Ground plane independent
- Dimensions: 150.5 x 42 x 15.3mm
- Certificates: IP67, IP69
- Customisable cable and connectors
- Optional version with 10K resistor for antenna detection (AMC-ANT-2J4941PGFR)



1. Antenna and electrical specifications

Cable 1

Parameters	Cellular/LTE Antenna		
Standards	2G, 3G and 4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698 - 960	1710 - 2170	2500 - 2700
Return Loss (dB)	~-12.1	~-16.5	~-14.8
VSWR	~1.7:1	~1.4:1	~1.5:1
Efficiency (%)	~76	~69	~76
Peak Gain (dBi)	~3.4	~3.5	~3.9
Average Gain (dB)	~-1.2	~-1.6	~-1.18
Impedance (Ohms)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA male standard (other connectors available)		
Cable Length	300cm standard (other lengths available)		
Cable Type	LMR195 standard (other cables available)		



Cable 2

Parameters	GPS/GLONASS Antenna	
	GPS/QZSS/Galileo	GLONASS
Standards	GPS/QZSS/Galileo	GLONASS
Band (MHz)	1575	1602
Frequency (MHz)	1575.42	1598 - 1606
Return Loss (dB)	<=-15	
VSWR	<=1.4:1	
Impedance (Ohms)	50	
Polarisation	RHCP	
Radiation Pattern	Hemispherical	
SAW Filter	Pre-Filter	
Active Gain (dB)	28 @ 2.7V	
Noise Figure (dB)	1.5 (typical)	
Voltage (V)	1.5 – 3.6	
Current Consumption(mA)	9 (typical)	
Power Consumption (mW)	24.3 (typical)	
ESD Protection (kV)	2	
Connector Type	SMA male standard (other connectors available)	
Cable Length	300cm standard (other lengths available)	
Cable Type	LMR100 standard (other cables available)	

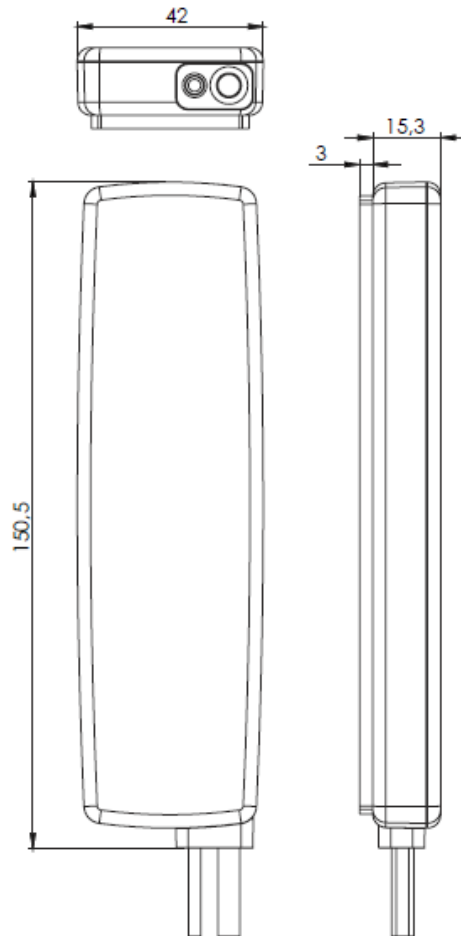
Measurement conditions:

- Mounted on 30 x 30 x 0.25cm ABS plate
- 200cm LMR195 cable
- Measured in certified CTIA 3D anechoic chamber

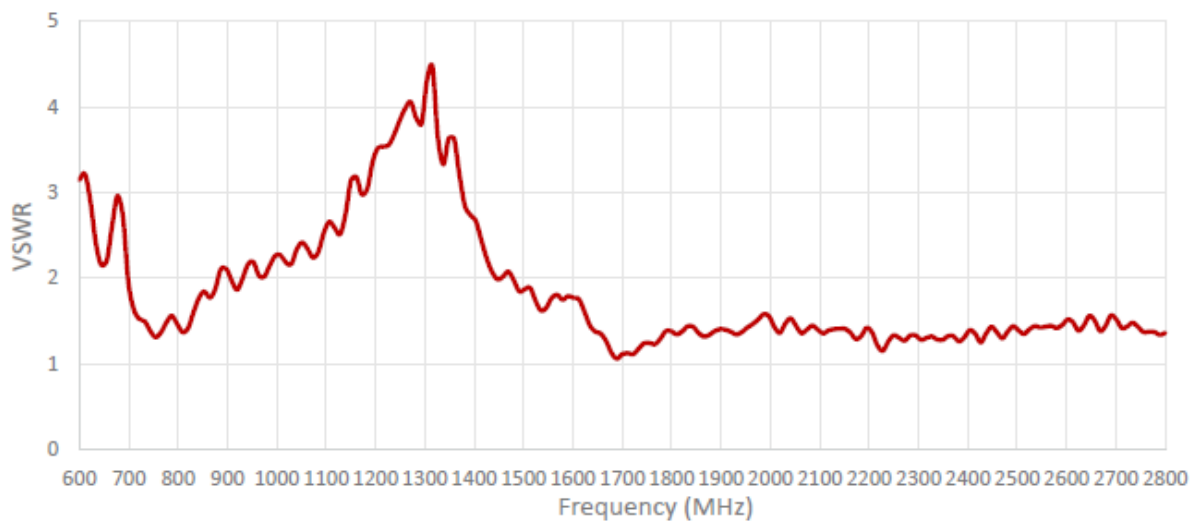
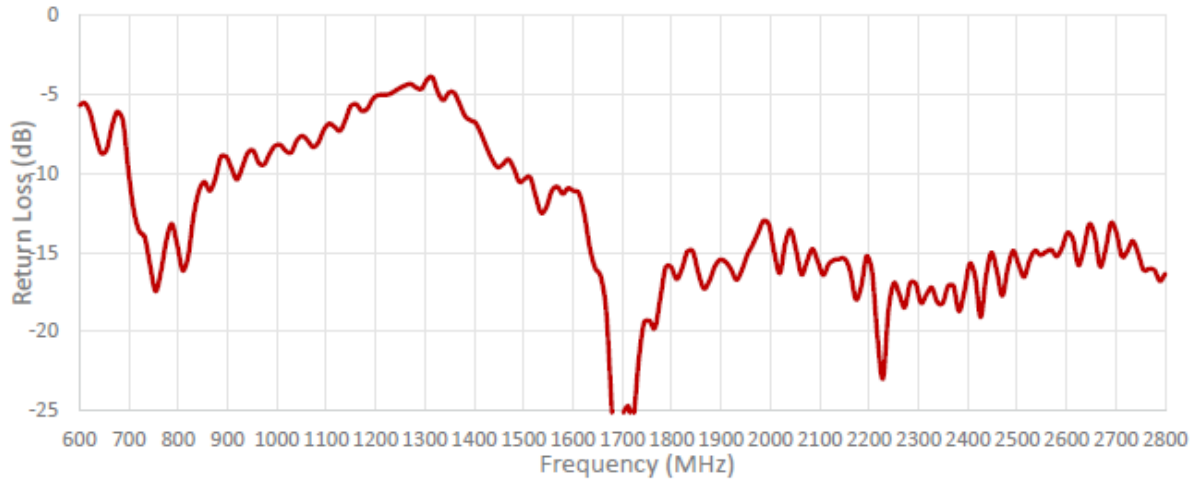


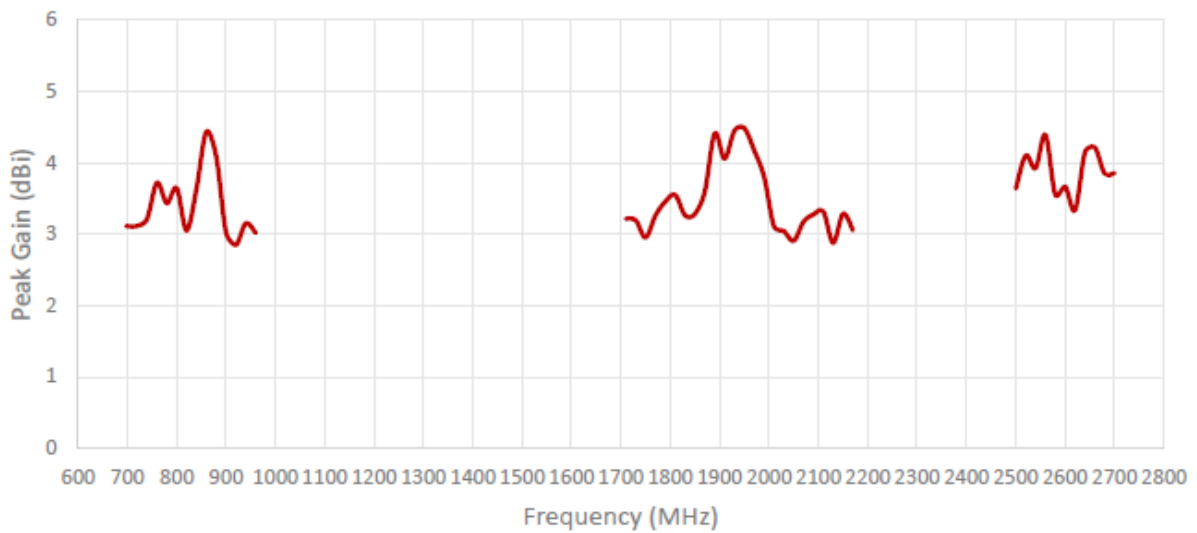
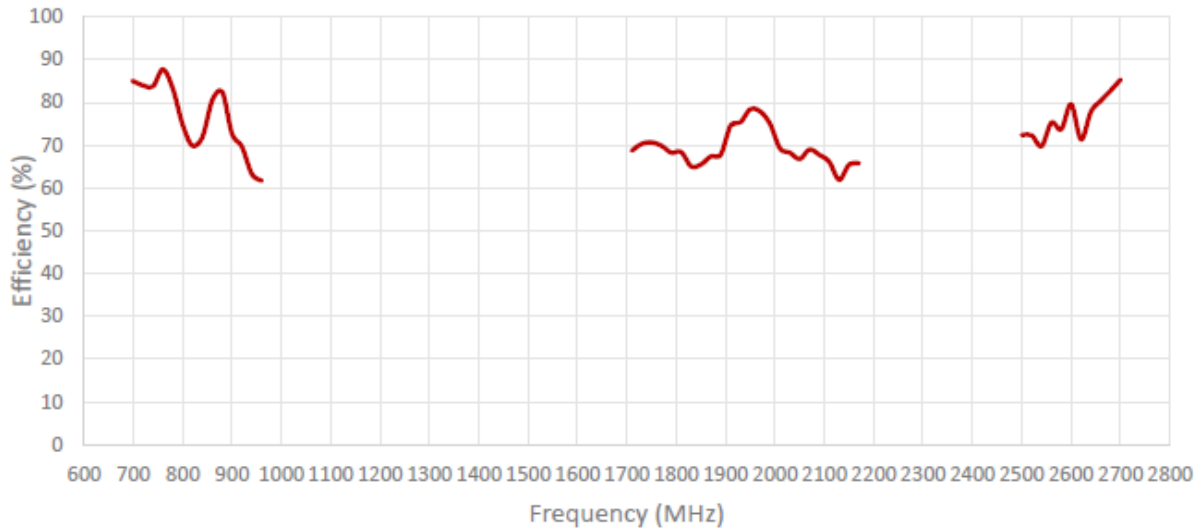
2. Mechanical and environmental specifications

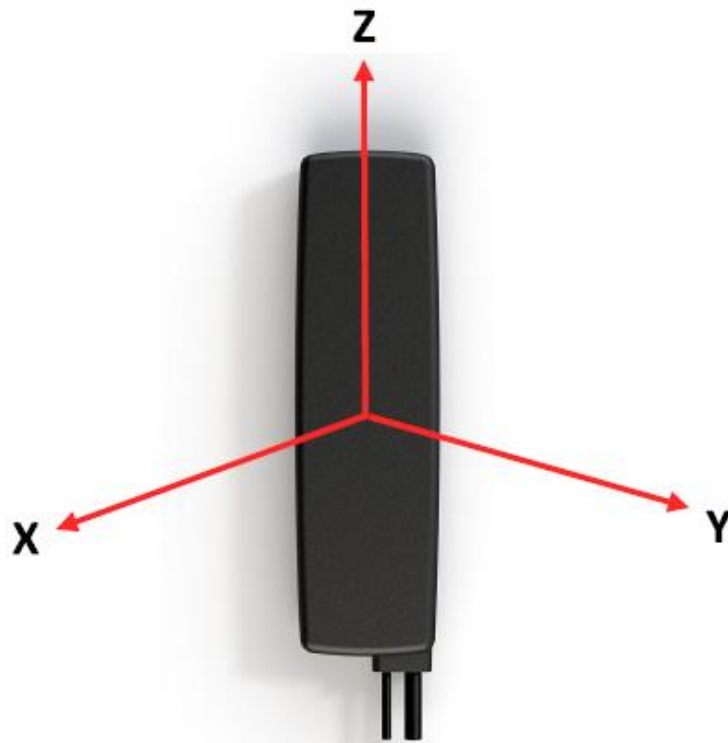
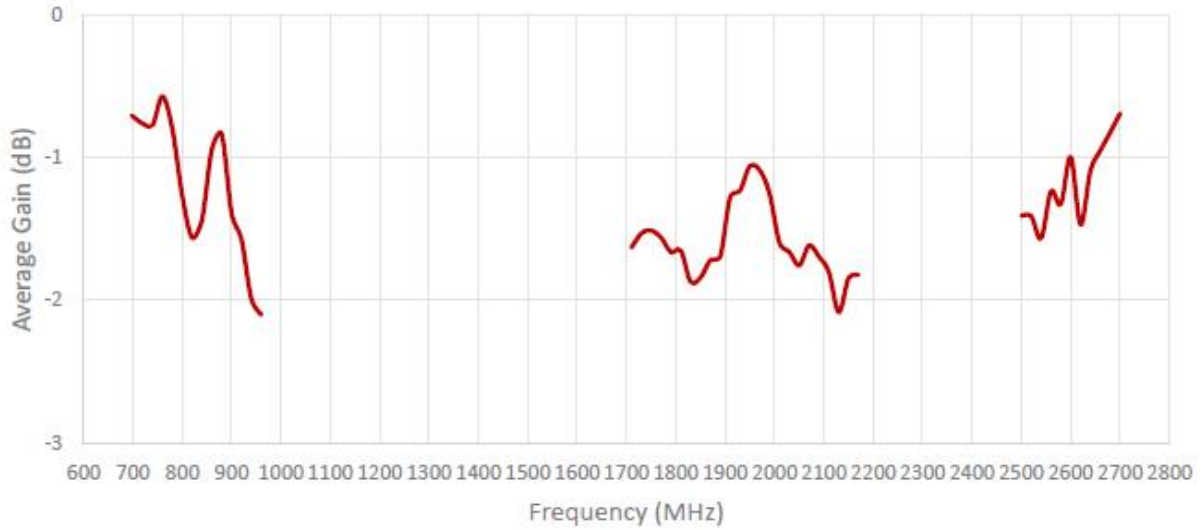
Mounting Type	Adhesive mount
Dimensions (mm)	150.5 x 42 x 15.3
Radome	ABS UV stable
Radome Color	Black
Operating Temperature (°C)	-40 to +85
Storage Temperature (°C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69



3. Antenna parameters

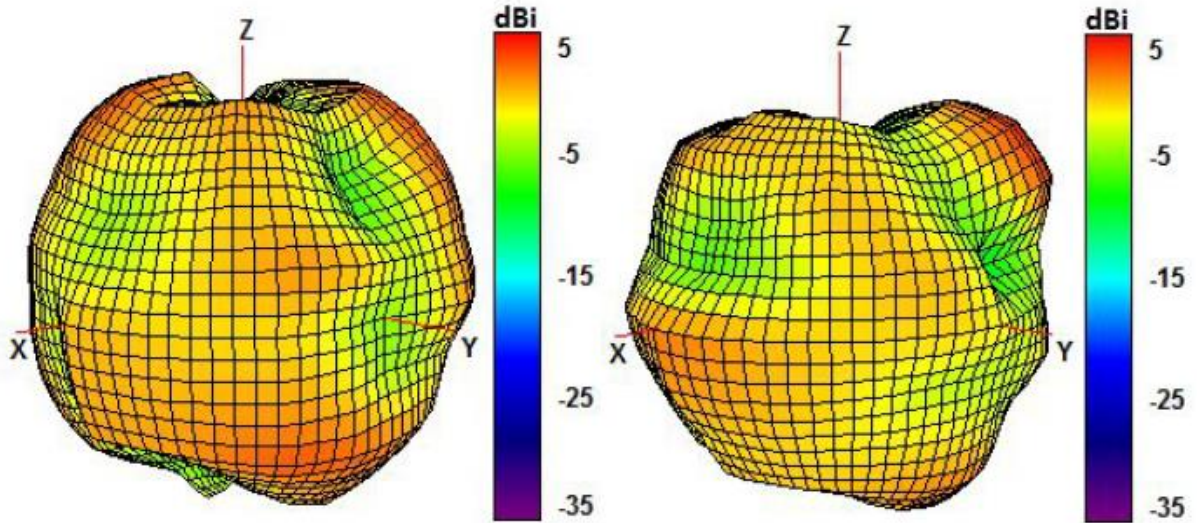




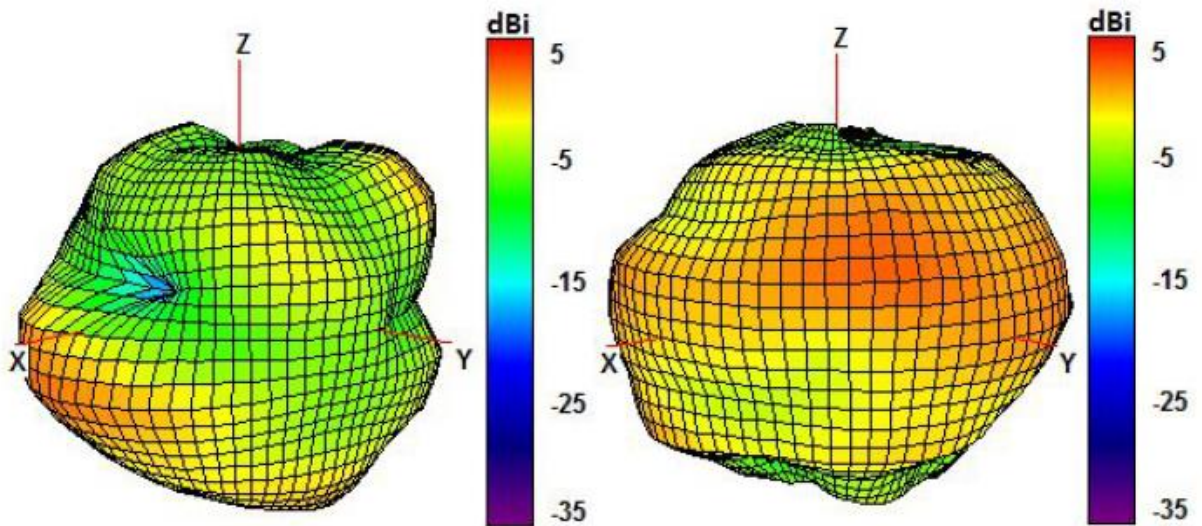


Radiation pattern reference



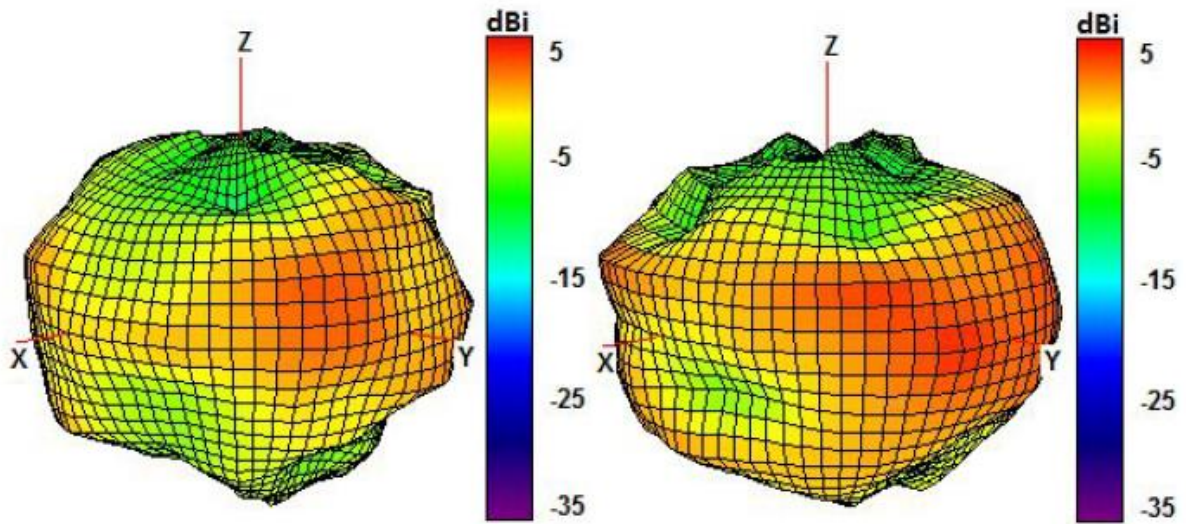


750 and 850 MHz Radiation pattern

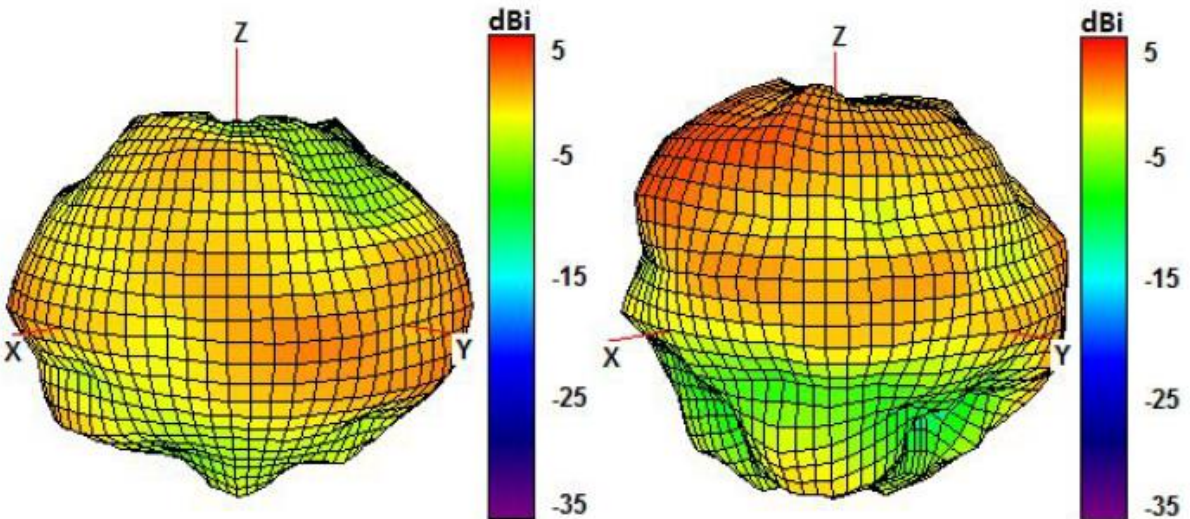


940 and 1750 MHz Radiation pattern





1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

