

AMC-ANT-2J6041MGF

Combi Cellular/LTE and GNSS magnetic mount antenna

Features

- **Cable 1: Cellular/LTE**
 - 698 – 960MHz
 - 1710 – 2170MHz
 - 2500 – 2700MHz
- **Cable 2: GPS/GLONASS/QZSS/Galileo**
 - 1598 – 1606MHz
- Magnetic mount
- Ground plane independent
- Dimensions: 80 x76 x 13mm
- Customisable cable and connector



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)	~-11.6	~-8.3	~-13.7
VSWR	~2.0:1	~2.3:1	~1.6:1
Efficiency (%)	~51.1	~27.9	~43.6
Peak Gain (dBi)	~2.8	~2.6	~4.3
Average Gain (dB)	~-3.0	~-5.6	~-3.6
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	LMR100 standard (other cables available)		



Cable 2

Parameters	GPS/GLONASS Antenna	
Standards	GPS/QZSS/Galileo	GLONASS
Band (MHz)	1575	1602
Frequency (MHz)	1575.42	1598 - 1606
Patch Size (mm)	25 x 25 x 4	
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 (typ.)	
Voltage (V)	1.5 – 3.6	
Current Consumption(mA)	9 (typ.)	
Power Consumption (mW)	24.3 (typ)	
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)	

Antenna measurement conditions

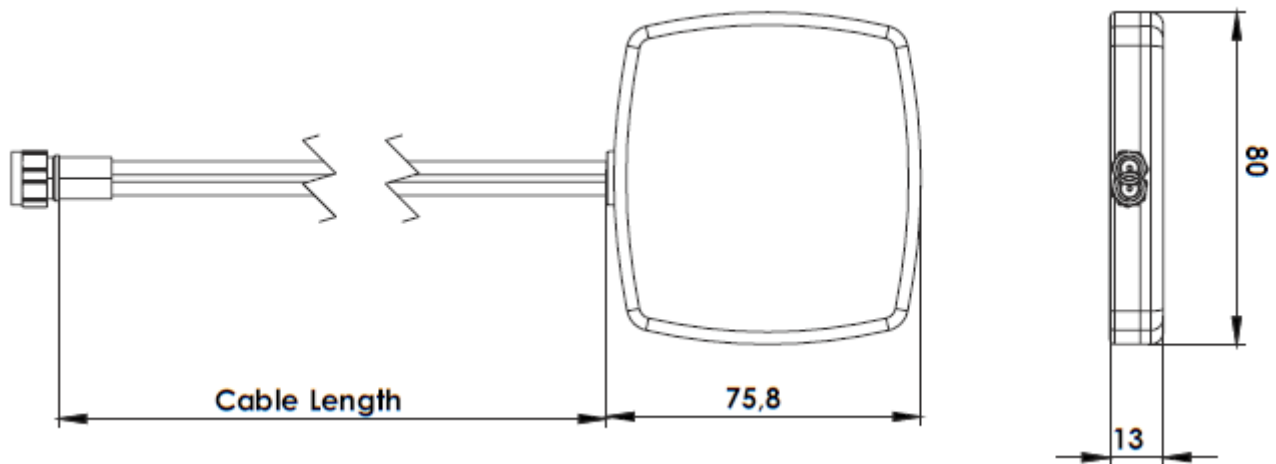
- Mounted on 30 x 30 0.25cm metal plate
- 200cm LMR100 cable
- Measured in certified CTIA 3D anechoic chamber



2. Mechanical and environmental specifications

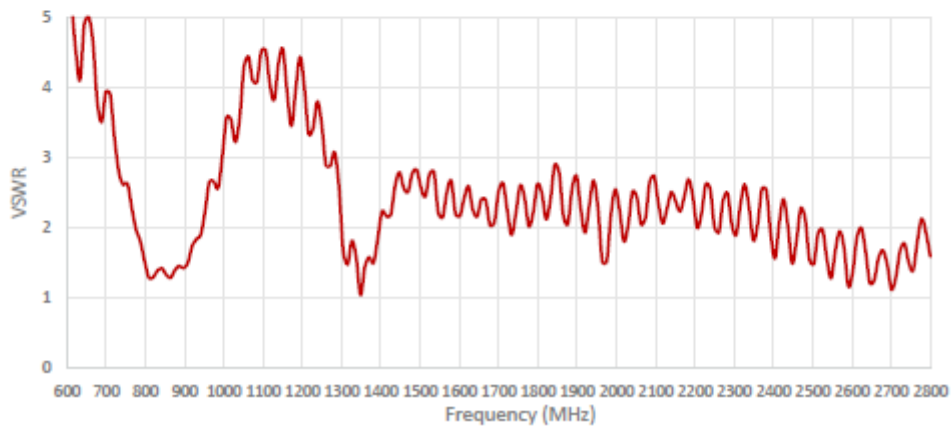
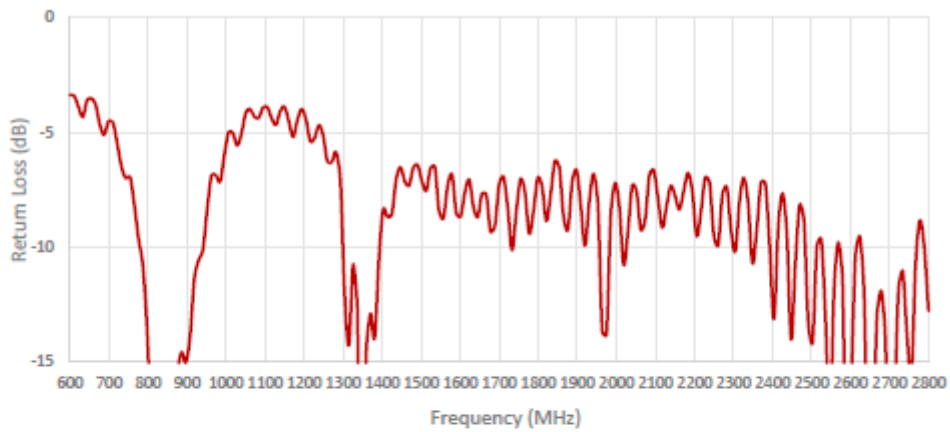
Mounting Type	Magnetic mount
Dimensions (mm)	80 x 76 x 13
Radome	ASA
Radome Color	Black or White
Operating Temperature (°C)	-40 to +85
Storage Temperature (°C)	-40 to +85
Substance Compliance	RoHS

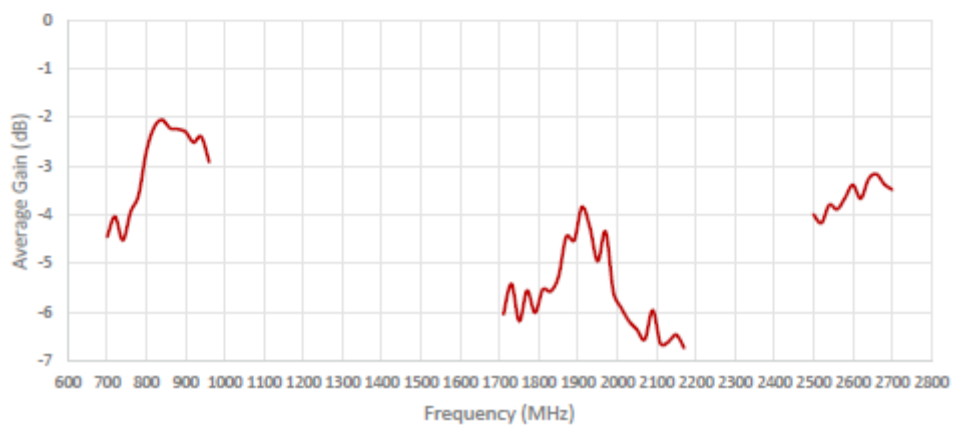
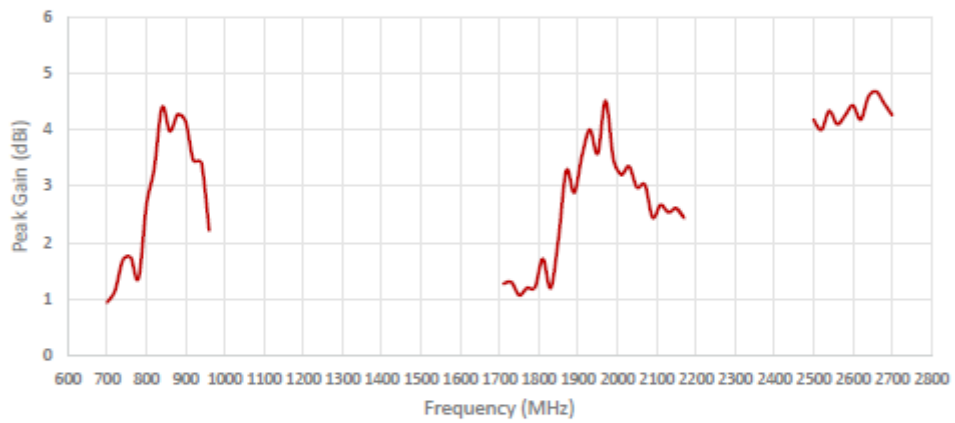
3. Antenna drawings



4. Antenna parameters

Cable 1: CELLULAR/LTE

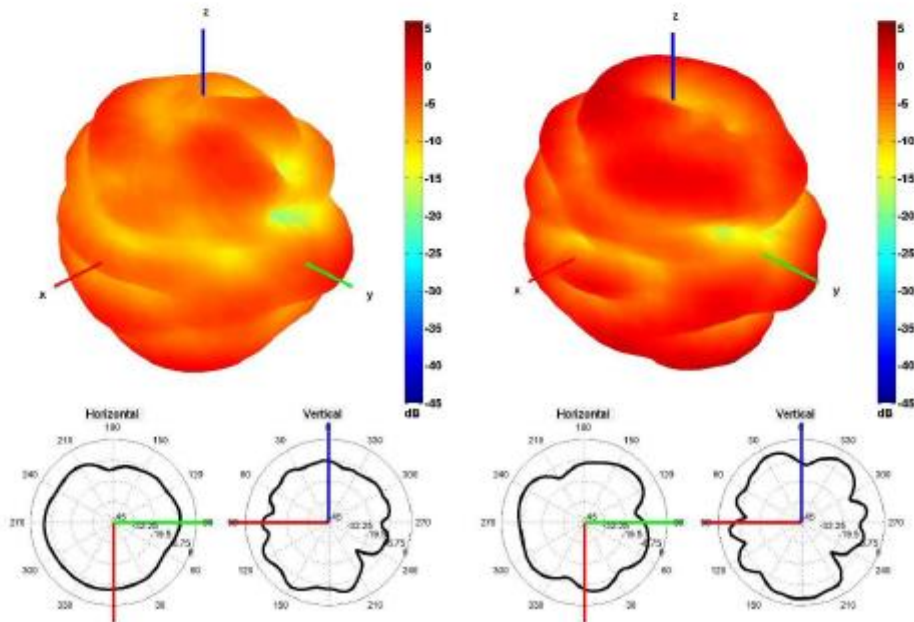






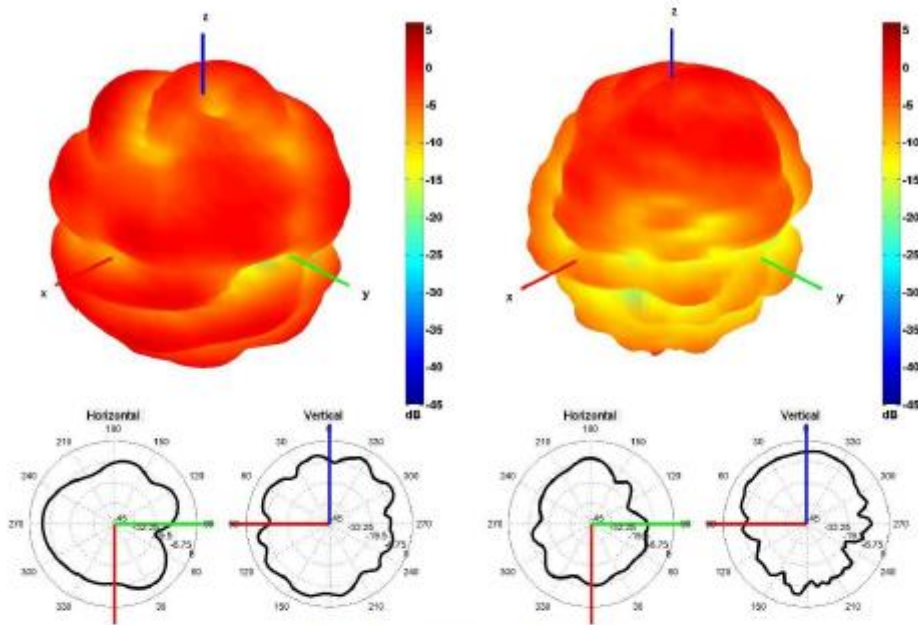
Radiation pattern reference

Cable 1: CELLULAR/LTE

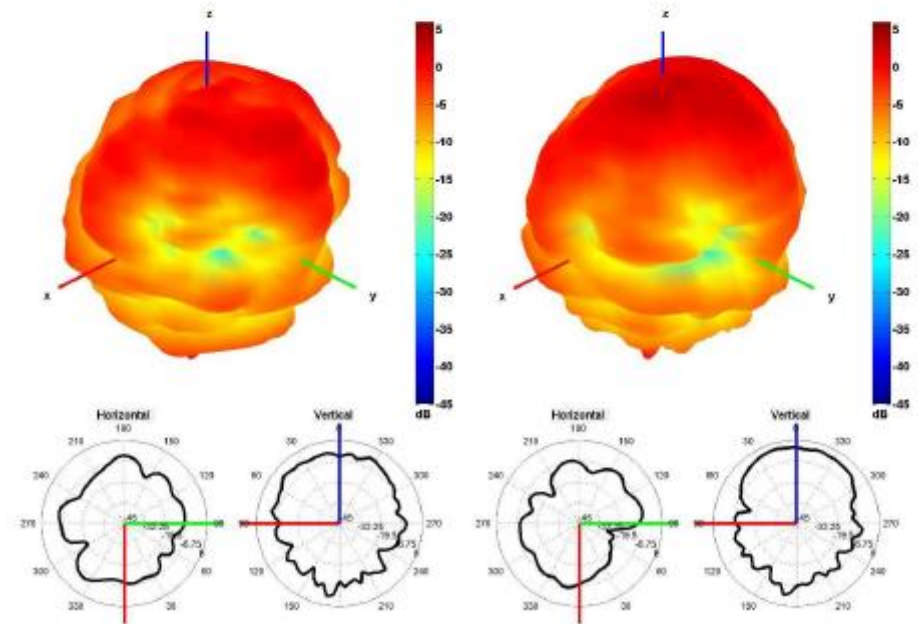


750 and 850 MHz Radiation pattern





940 and 1750 MHz Radiation pattern



1850 and 1950 MHz Radiation pattern



