

2J4A50PCFc-200RG58_C91G_C91G_C151G_200RG174_C20G_CalUs

Cellular/LTE MIMO, 2.4/5.0GHz and GNSS Adhesive Mount



FEATURES

- Adhesive Mount
- High Performance
- Ground Plane Independent
- Cable 1, 2: Cellular/LTE (698-960, 1710-2170 and 2500-2700 MHz)
- Cable 3: 2.4/5.0 GHz ISM (2410-2490 and 4920-5925 MHz)
- Cable 4: GPS/GLONASS/BeiDou/QZSS/Galileo (1575 MHz)
- IP67, IP69K
- 60.7 x 157.6 x 14.4 mm
- Customized Cable and Connector

ANTENNA AND ELECTRICAL SPECIFICATIONS

Cable 1 (LTE1)	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)	~-11.8	~-13.4	~-10.3
VSWR	~2.1:1	~1.6:1	~2.0:1
Efficiency (%)	~47.0	~46.3	~43.5
Peak Gain (dBi)	~1.9	~3.3	~2.2
Average Gain (dB)	~-3.3	~-3.3	~-3.6
Impedance (Ohm)	50		
Polarization	Linear		
Radiation Pattern	Omni-Directional		
Max Input Power (W)	25		
Connector Type	SMA-Male		
Cable Length	200 cm		
Cable Type	RG58		

Cable 2 (LTE2)	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)	~-12.4	~-12.9	~-12.1
VSWR	~2.1:1	~1.7:1	~1.8:1
Efficiency (%)	~48.0	~49.7	~49.4
Peak Gain (dBi)	~2.0	~2.7	~1.6
Average Gain (dB)	~-3.2	~-3.0	~-3.1
Impedance (Ohm)	50		
Polarization	Linear		
Radiation Pattern	Omni-Directional		
Max Input Power (W)	25		
Connector Type	SMA-Male		
Cable Length	200 cm		
Cable Type	RG58		

Antenna Measurement Conditions

Mounted on Metal Plate of 30 x 30 cm

200 cm of Cable LMR195

Measured in Certified CTIA 3D Anechoic Chamber

Cable 3 (WIFI)	2.4/5.0 GHz ISM Antenna	
Standards	WiFi, BT, ZigBee, ISM	
Band (MHz)	2.4 GHz	5.0 GHz
Frequency(MHz)	2410-2490	4920-5925
Return Loss (dB)	~-19.6	~-14.3
VSWR	~1.3:1	~1.6:1
Efficiency (%)	~61.7	~74.0
Peak Gain (dBi)	~3.9	~4.0
Average Gain (dB)	~-2.1	~-1.3
Impedance (Ohm)	50	
Polarization	Linear	
Radiation Pattern	Omni-Directional	
Max Input Power (W)	25	
Connector Type	RP-SMA-Male	
Cable Length	200 cm	
Cable Type	RG58	

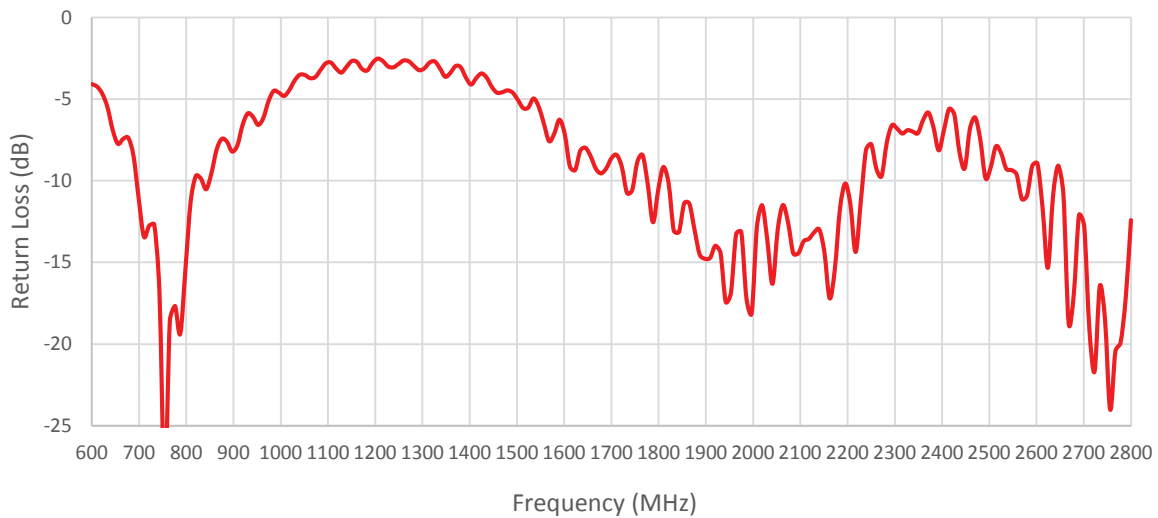
Cable 4 (GNSS)	GPS/GLONASS/BeiDou Antenna		
Standards	BeiDou	GPS/QZSS/Galileo	GLONASS
Bands (MHz)	1561	1575	1602
Frequency (MHz)	1561.098	1575.42	1598-1606
Patch Size (mm)	25 x 25 x 4		
Return Loss (dB)	<=-15.0 dB		
VSWR	<=1.4:1 dB		
Impedance	50		
Radiation Pattern	Hemispherical		
Polarization	RHCP		
Saw Filter	Pre-filter		
Active Gain (dB)	28 @ 2.7 V		
Noise Figure (dB)	1.5 Typ		
Voltage (V)	1.5 – 3.6		
Current (mA)	9 Typ		
Power Consumption (mW)	24.3 Typ		
ESD Protection	2kV		
Connector Type	SMA-Male		
Cable Length (m)	200 cm		
Cable Type	RG174		

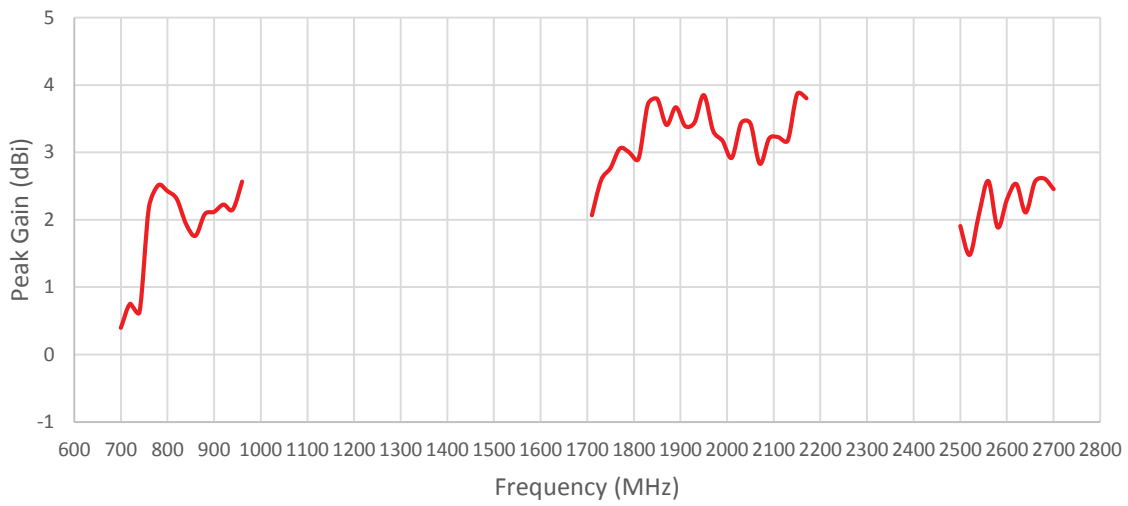
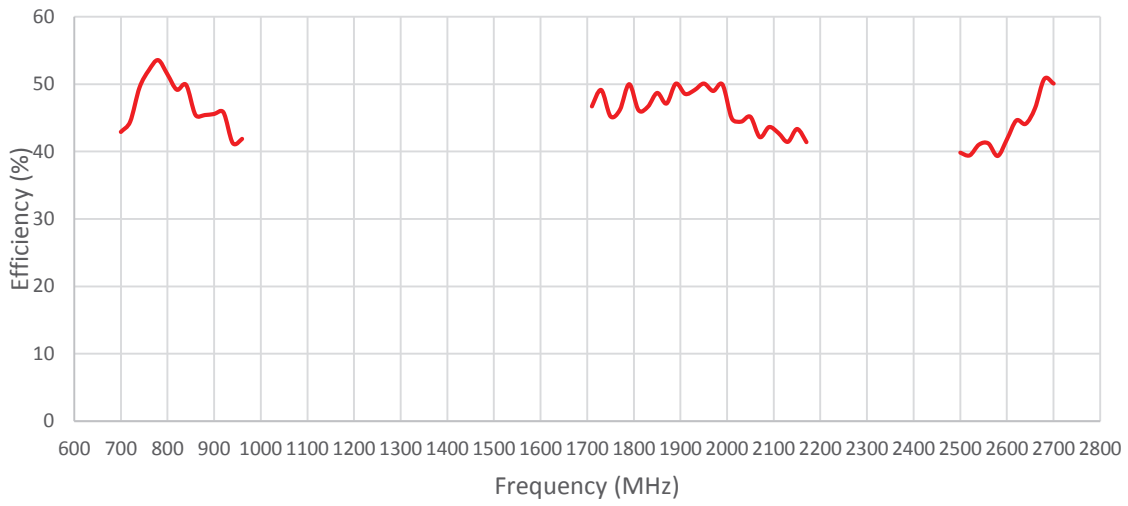
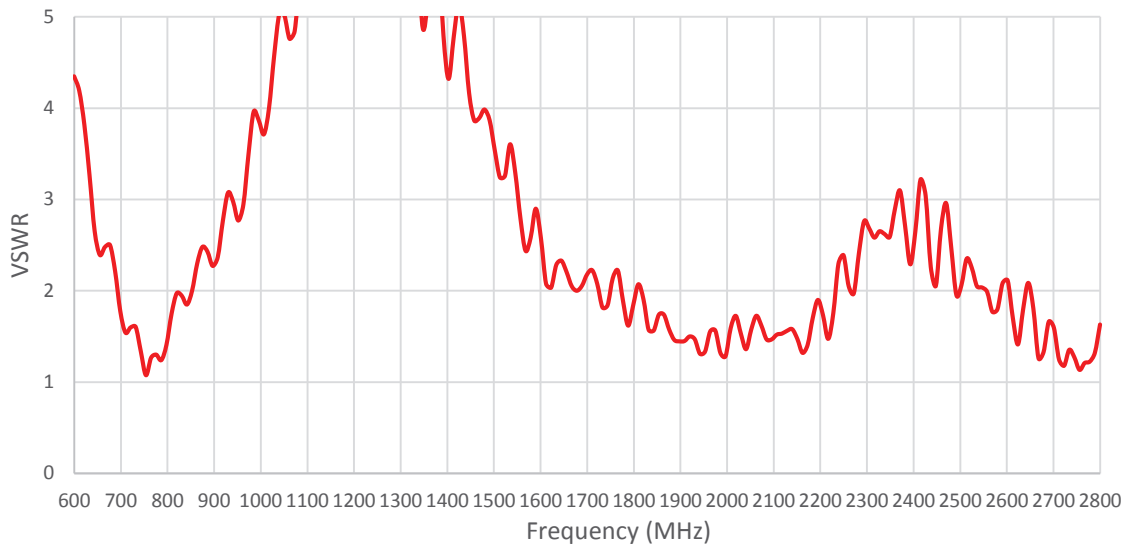
MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

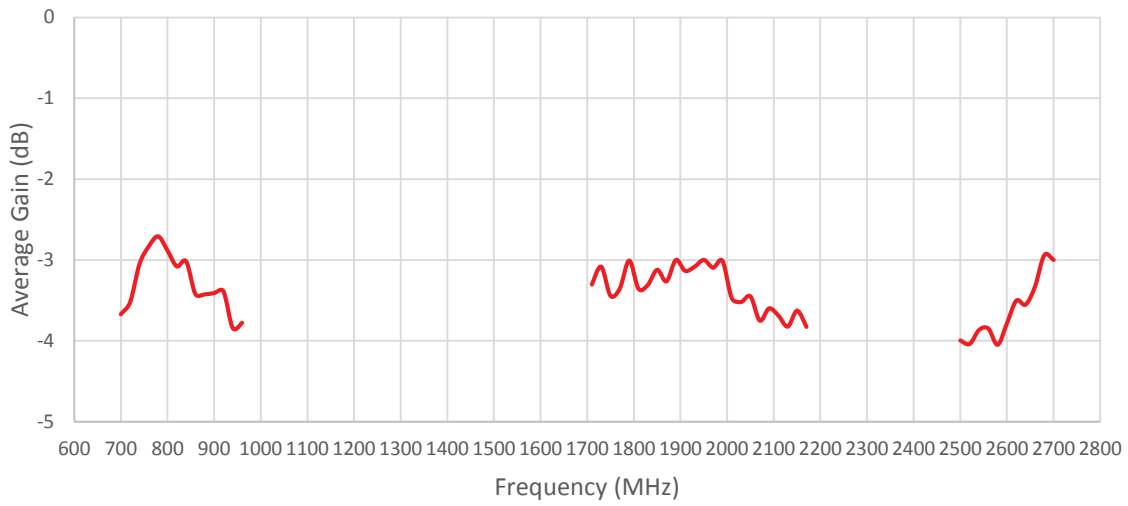
Specifications	2J4A50PCFc
Mounting Type	Adhesive Mount
Dimensions (mm)	60.7 x 157.6 x 14.4
Radome Type	ABS UV Stable
Radome Color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

ANTENNA PARAMETERS

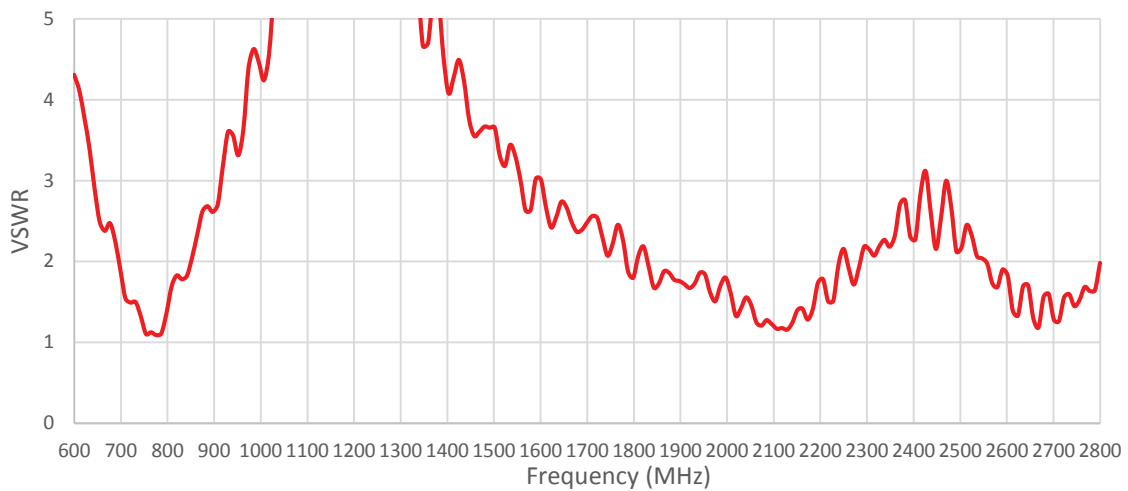
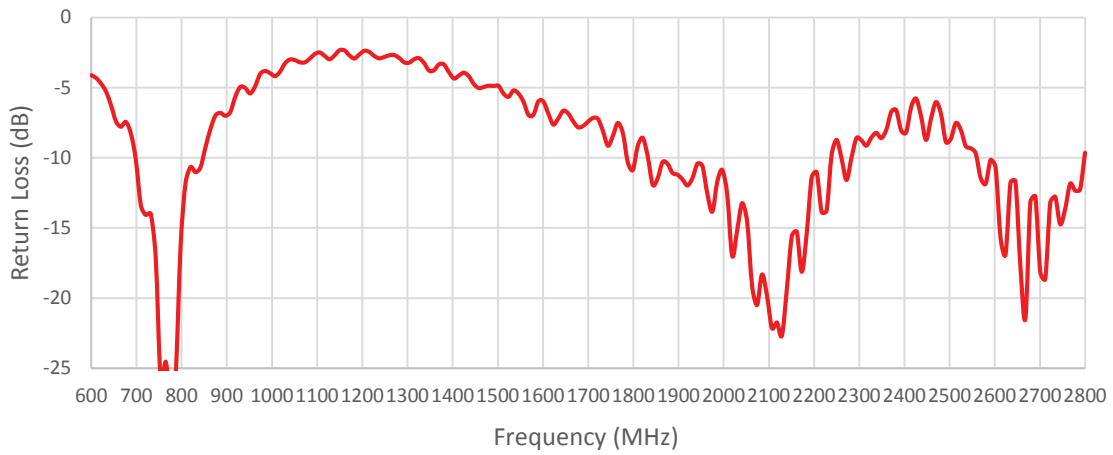
CABLE 1: Cellular/LTE

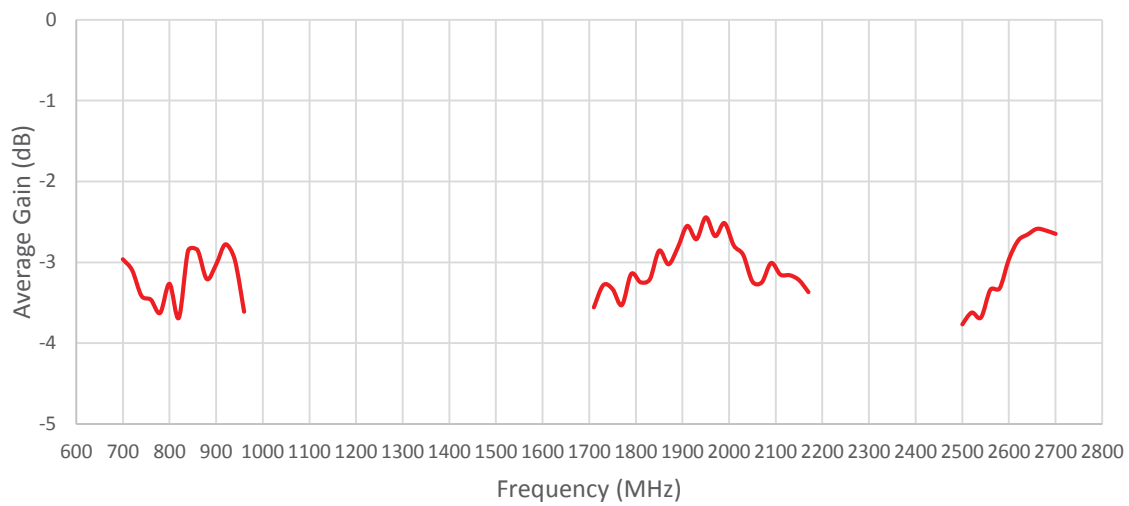
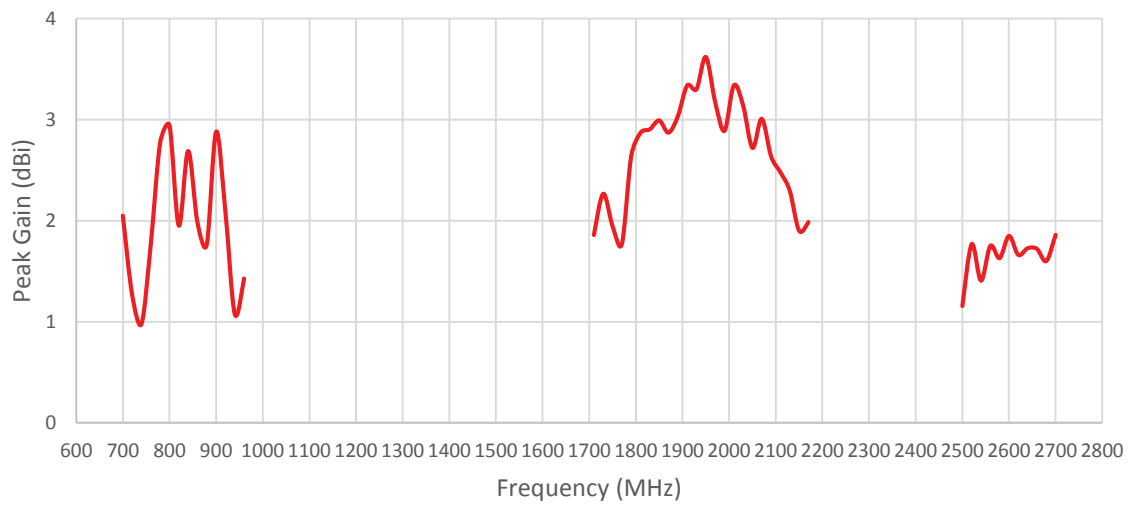
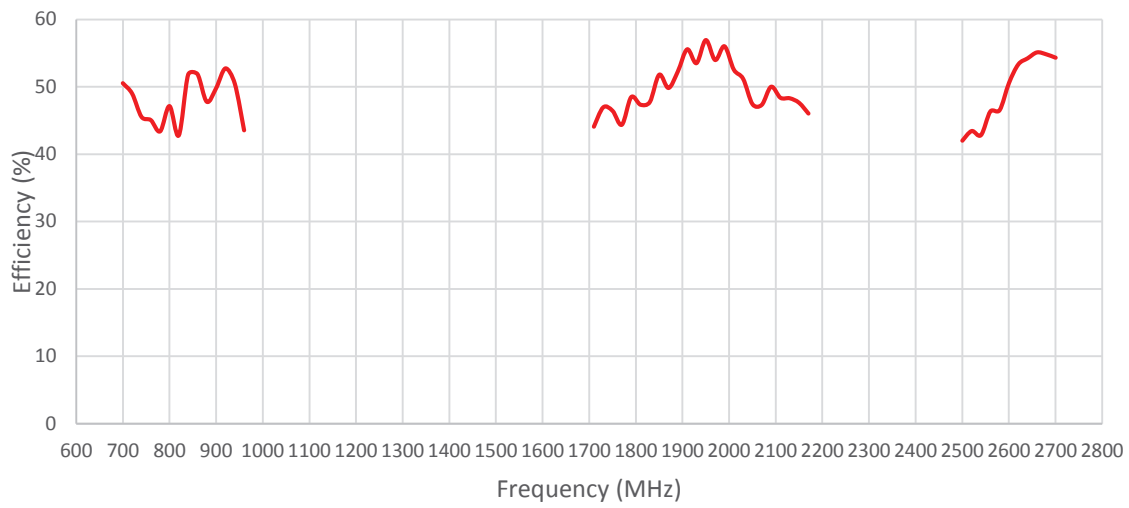




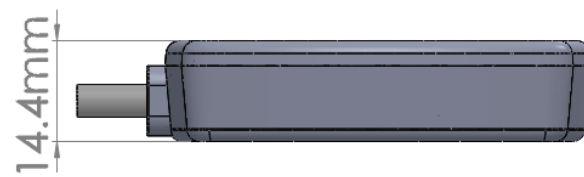
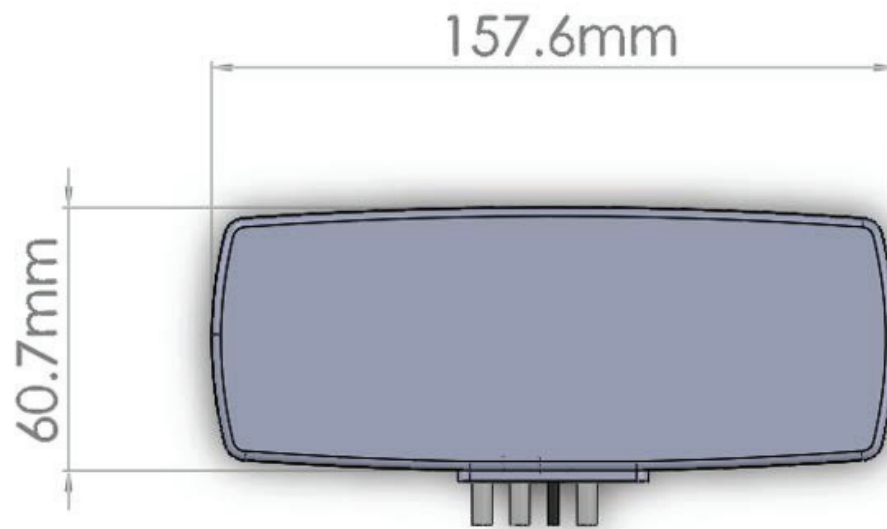


CABLE 2: Cellular/LTE





ANTENNA DRAWING



ANTENNA IMAGES

