

2J4950PGF

CELLULAR/LTE, 2.4/5.0 GHz ISM and GNSS Adhesive Mount

Key Features

Cable 1: CELLULAR / LTE

- 698-960 MHz
- 1710-2170 MHz
- 2500-2700 MHz

Cable 2: 2.4/5.0 GHz ISM

- 2410-2490 MHz
- 4920-5925 MHz

Cable 3: GPS/GLONASS/QZSS/Galileo

- 1575-1606 MHz

Adhesive Mount

High Performance

Ground Plane Independent

Customizable Cable and Connector

Dimensions: 150.5 x 42 x 15.3 mm

Certificates: IP67, IP69



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)	~-13.1	~-18.5	~-14.1
VSWR	~1.6:1	~1.3:1	~1.5:1
Efficiency (%)	~72	~67	~65
Peak Gain (dBi)	~-5.1	~-5.0	~-4.2
Average Gain (dB)	~-1.5	~-1.8	~-1.9
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	LMR195 Standard (Other Cables Available)		

Cable 2

Parameters	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)	~-19.0	~-14.3
VSWR	~1.3:1	~1.6:1
Efficiency (%)	~54	~64
Peak Gain (dBi)	~-5.8	~-6.3
Average Gain (dB)	~-2.7	~-2.0
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	LMR195 Standard (Other Cables Available)	

Antenna Measurement Conditions:

Mounted on 30 x 30 x 0.25 cm ABS Plate

200 cm of Cable LMR195

Measured in Certified CTIA 3D Anechoic Chamber

Cable 3

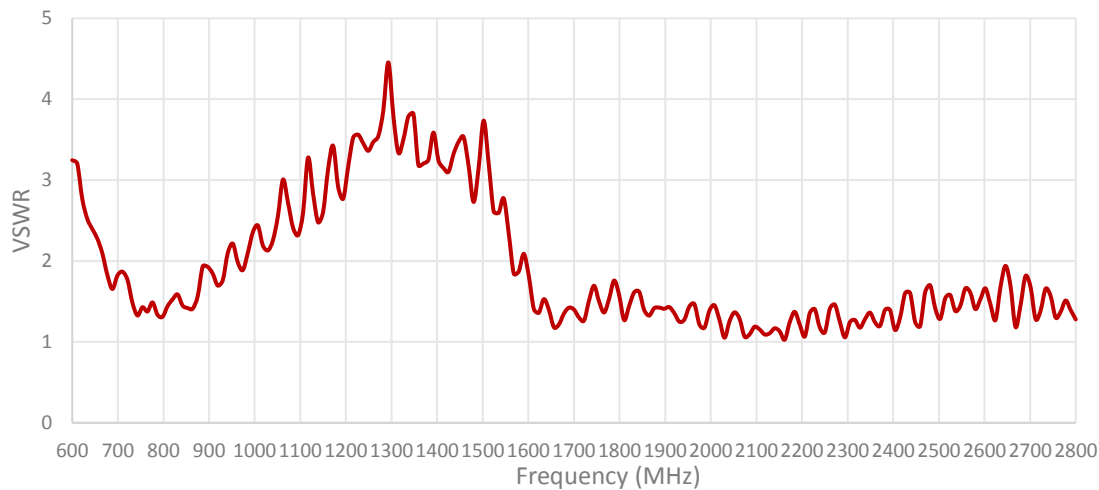
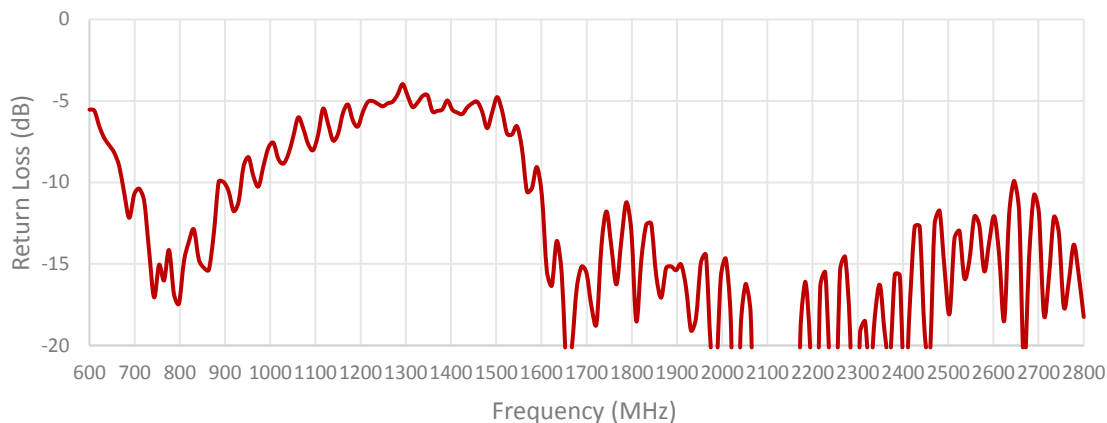
Parameters	GPS/GLONASS Antenna	
	GPS/QZSS/Galileo	GLONASS
Standard		
Band (MHz)	1575	1602
Frequency(MHz)	1575.42	1598-1606
Return Loss (dB)		<=-15.0 dB
VSWR		<=1.4:1 dB
Impedance		50
Radiation Pattern		Hemispherical
Polarization		RHCP
Saw Filter		Pre-filter
Active Gain (dB)		28 @ 2.7 V
Noise Figure (dB)		1.5 Typ
Voltage (V)		1.5 – 3.6
Current (mA)		9 Typ
Power Consumption (mW)		24.3 Typ
ESD Protection (kV)		2kV
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length	300 cm Standard (Any Cable Length Available)	
Cable Type	LMR100 Standard (Other Cables Available)	

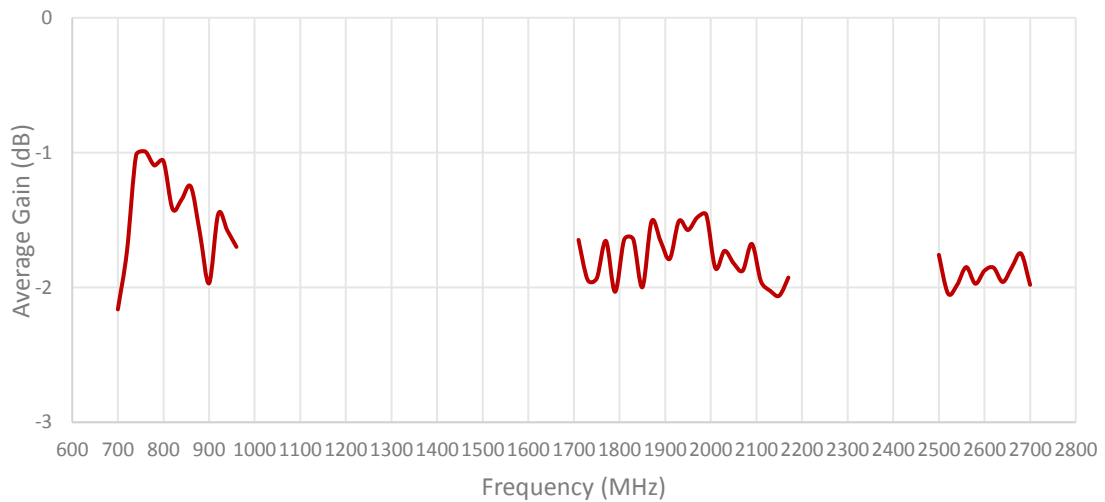
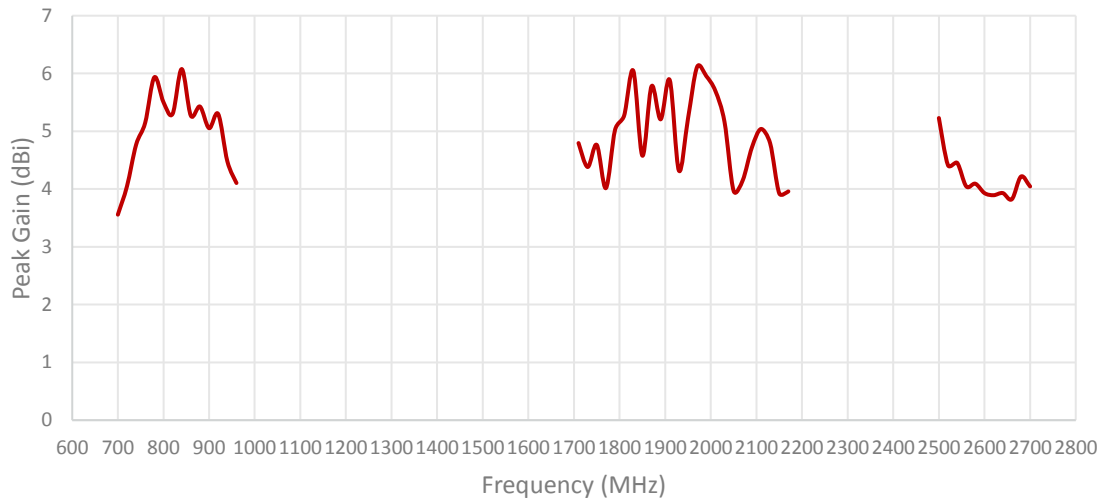
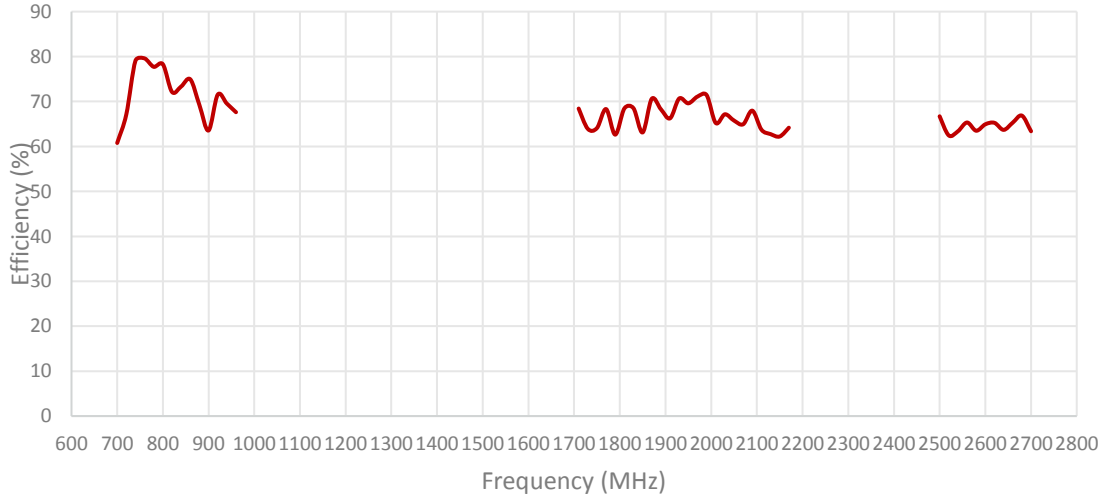
2. Mechanical and environmental specifications

Specifications	2J4950PGF
Mounting Type	Adhesive Mount
Dimensions (mm)	150.5 x 42 x 15.3
Radome Type	ABS UV Stable
Radome Color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69

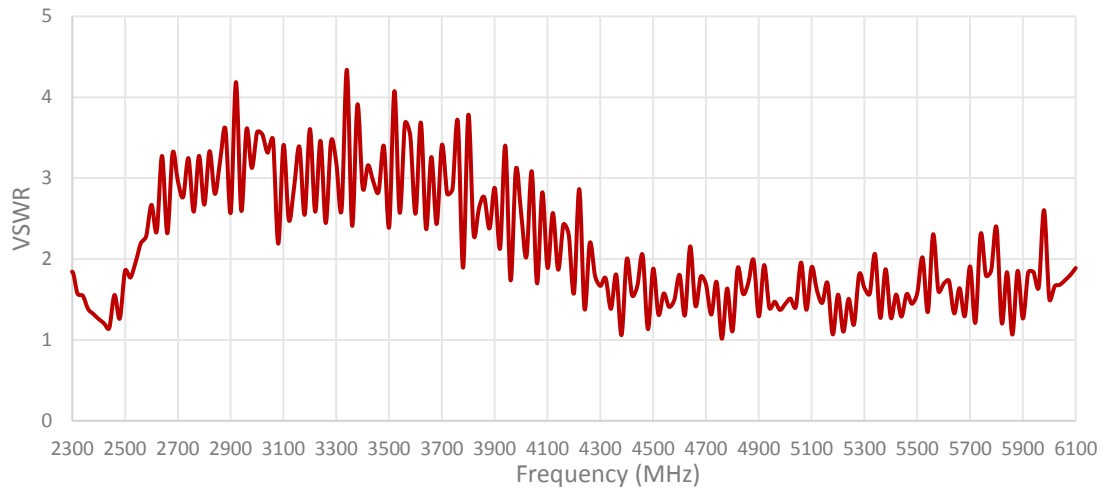
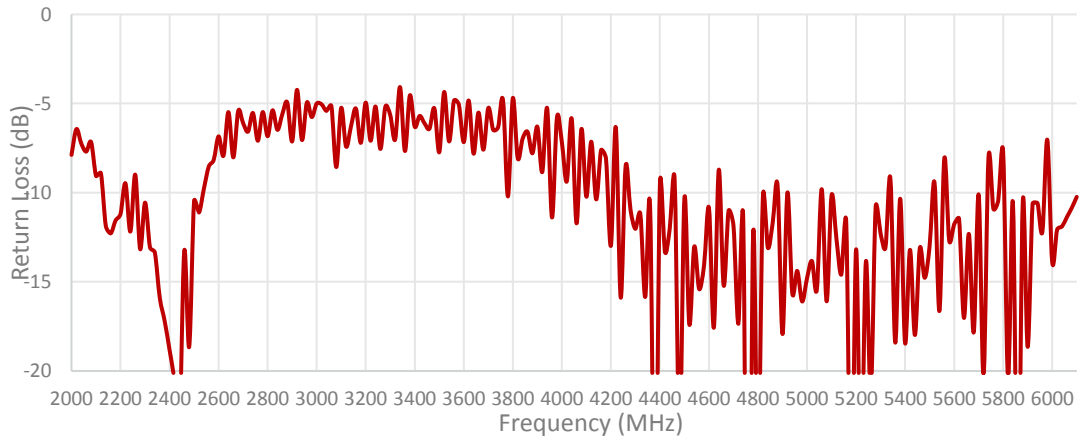
3. Antenna parameters

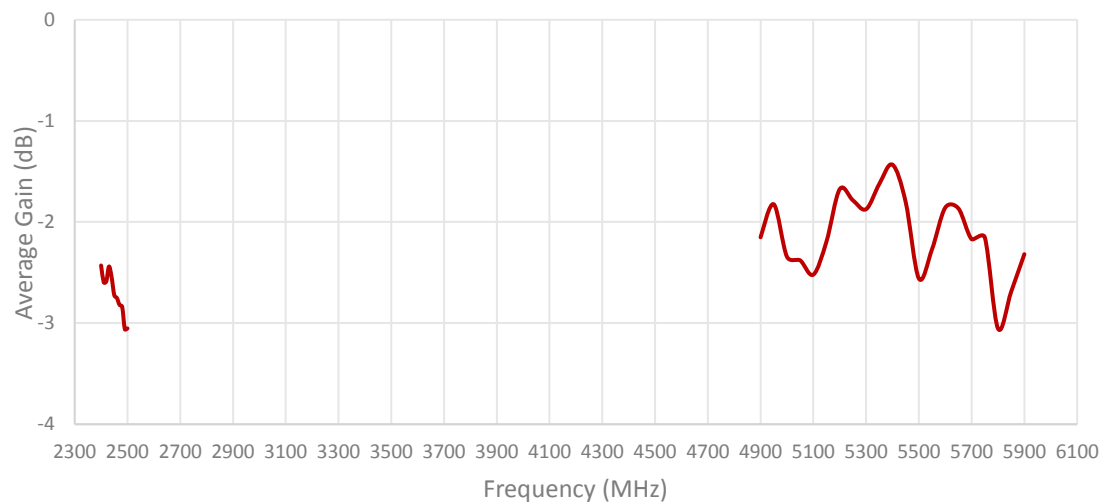
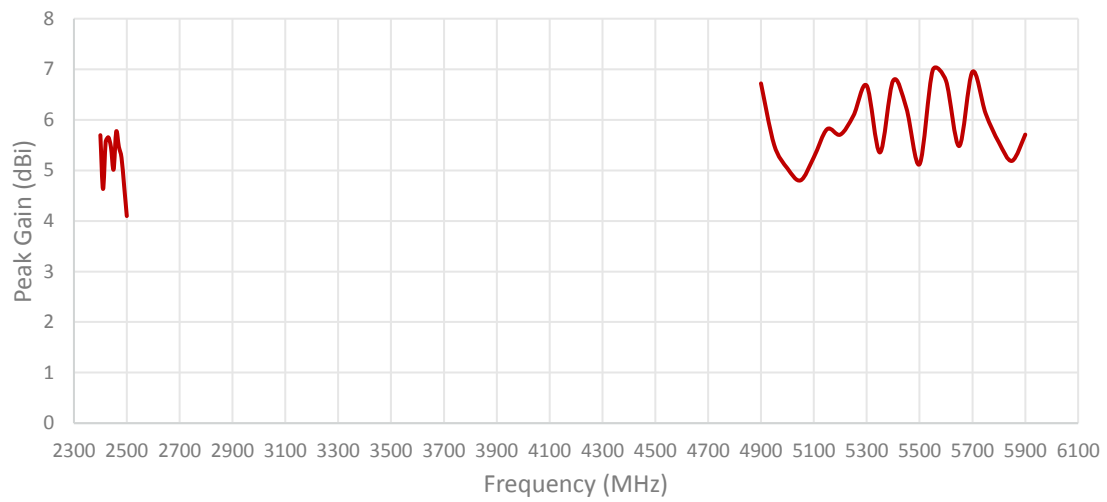
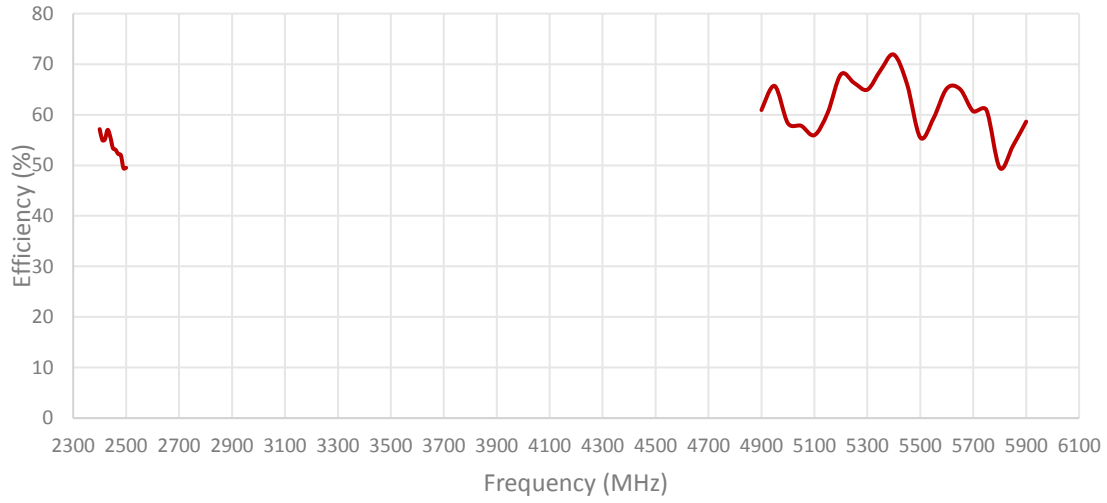
Cable 1: CELLULAR/LTE

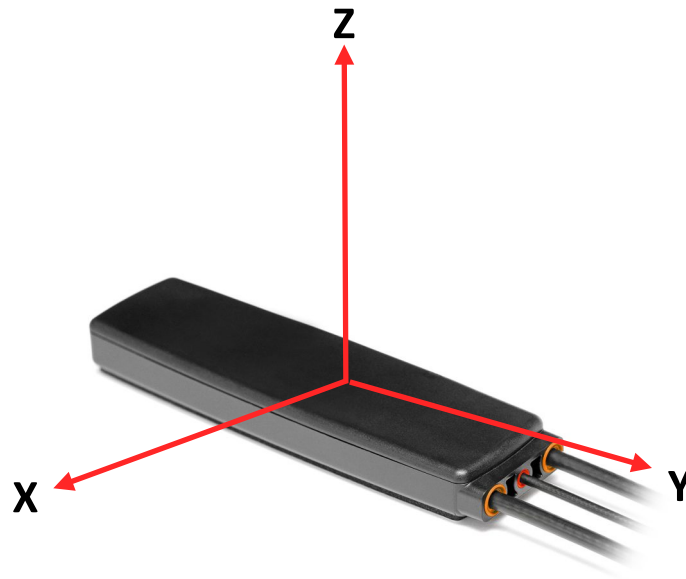




Cable 2: 2.4/5.0 GHz ISM

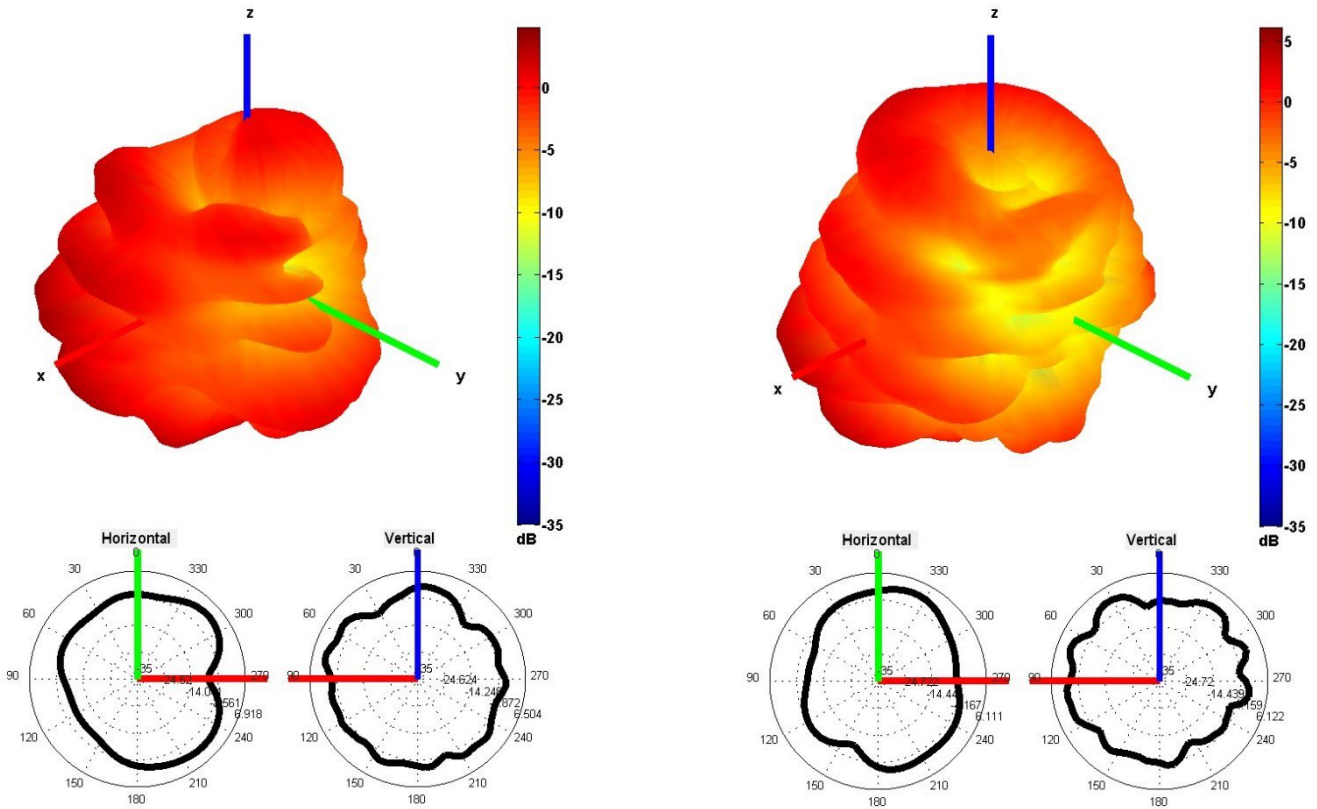


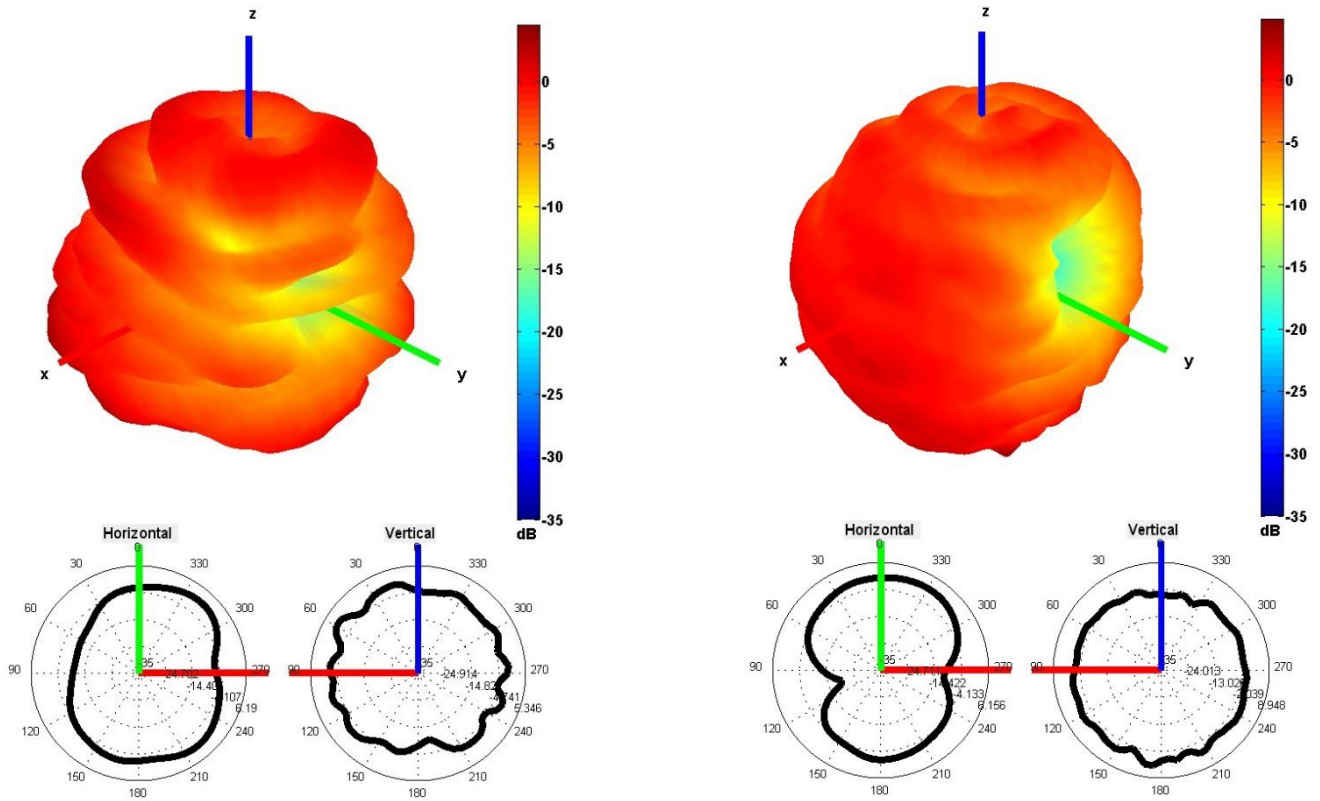




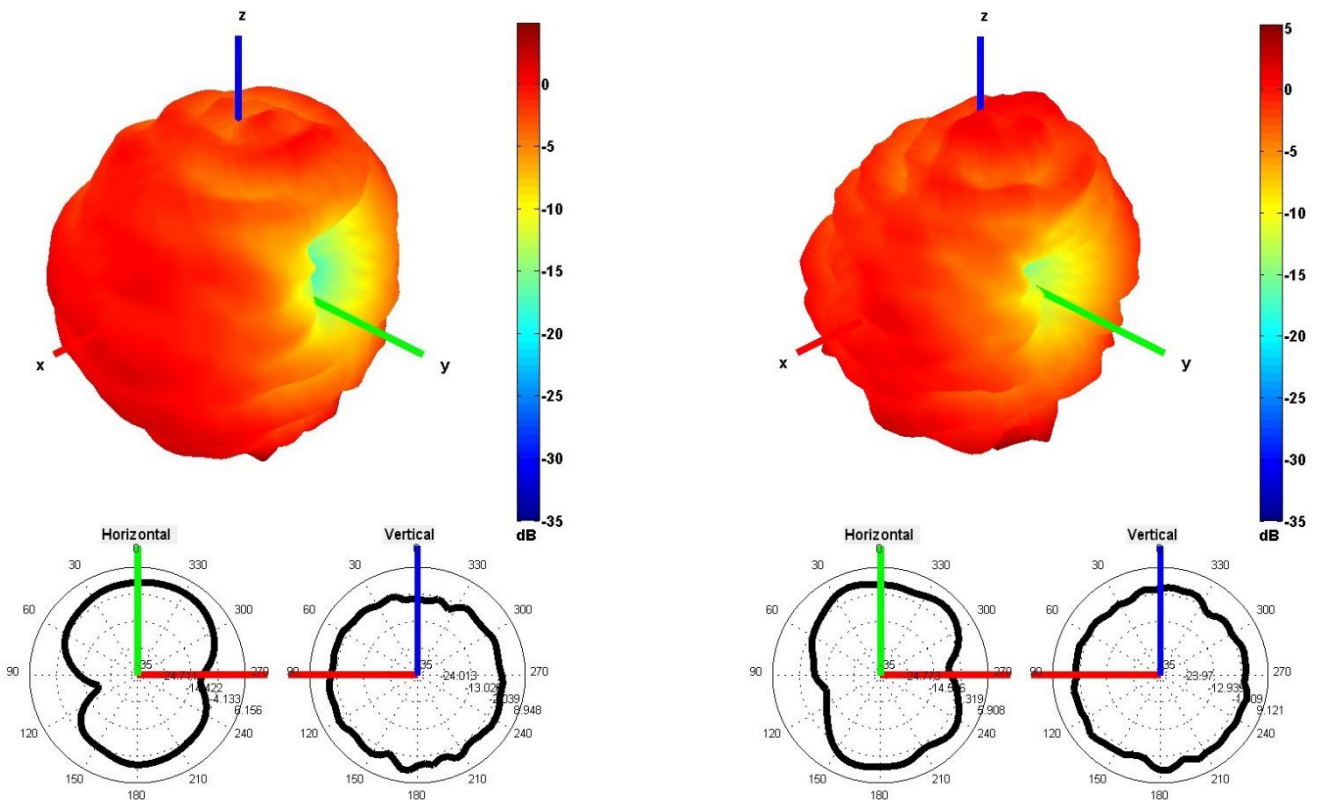
Radiation pattern reference

Cable 1: CELLULAR/LTE

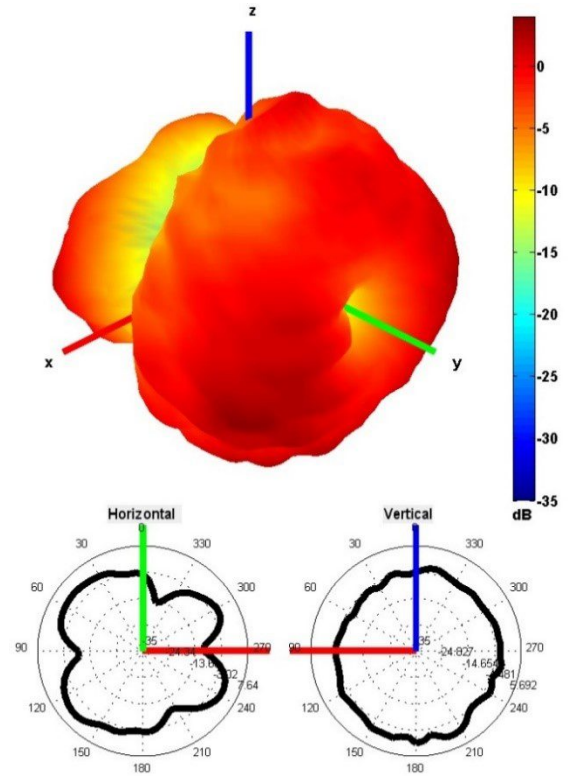
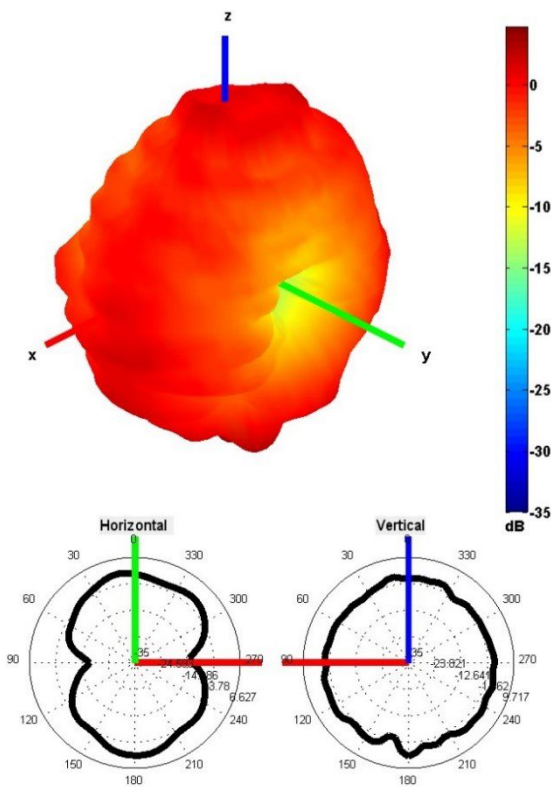




940 and 1750 MHz Radiation pattern

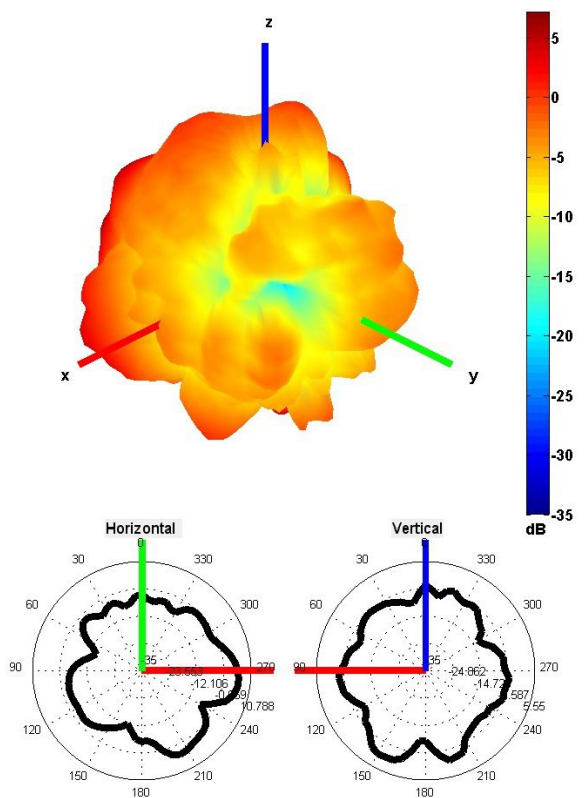
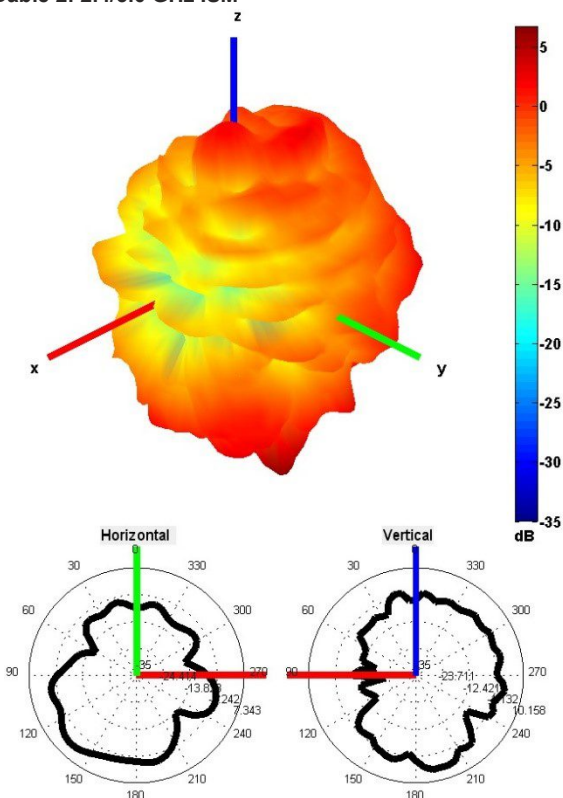


1850 and 1950 MHz Radiation pattern



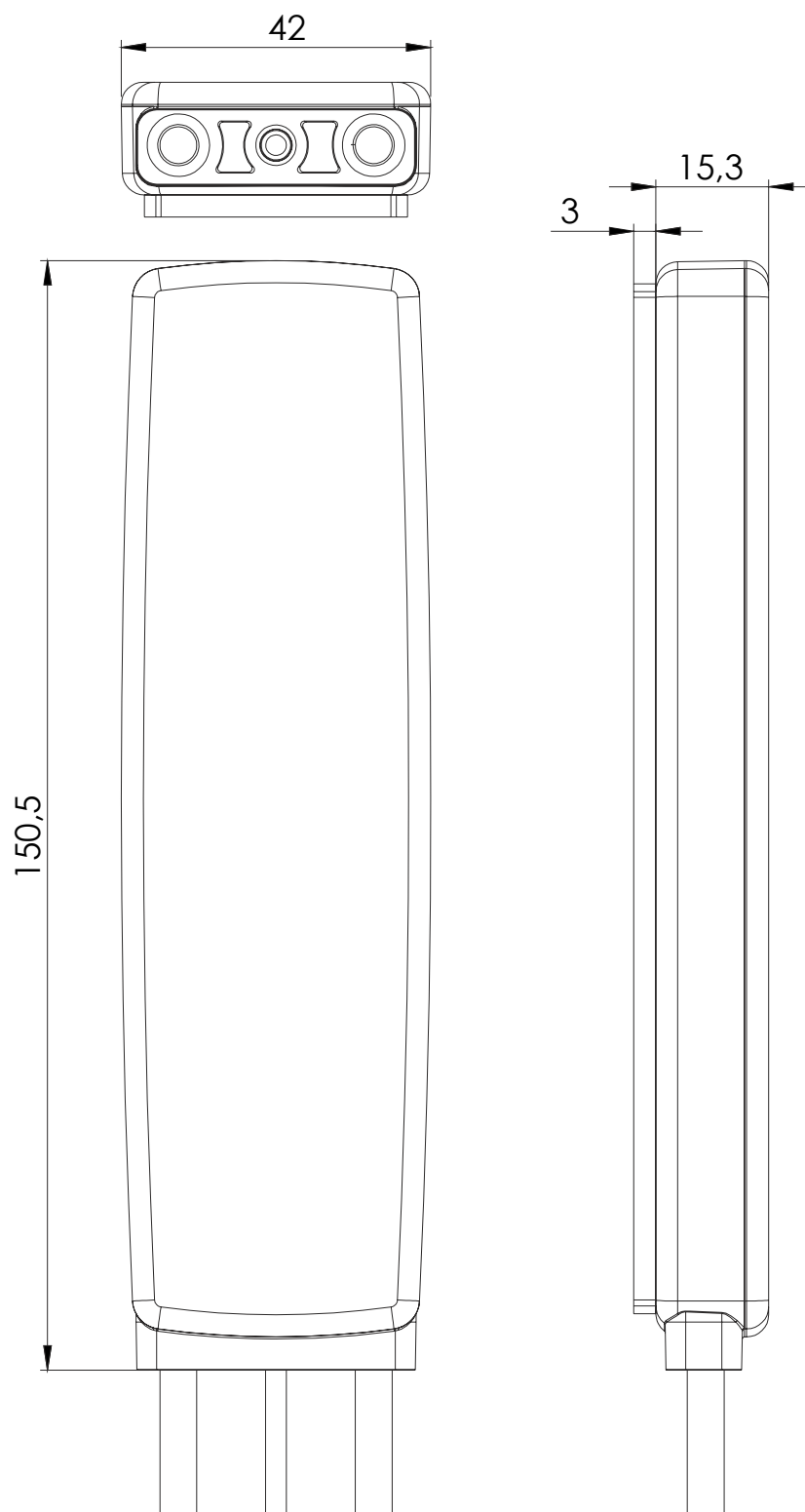
2100 and 2600 MHz Radiation pattern

Table 2: 2.4/5.0 GHz ISM



2450 and 5500 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images





Макро Групп – это:

- дистрибьютор электронных компонентов с 1994 года
- контрактный производитель электроники с 2007 года с собственным производством в Санкт-Петербурге (компания Макро EMC, входит в ГК Макро Групп)
- поставщик полупроводниковых материалов
- комплексный поставщик электронных компонентов
- моделирование и производство полупроводниковых эпитаксиальных гетероструктур для задач оптоэлектроники

Головной офис расположен в Санкт-Петербурге. Собственные представительства в крупных промышленных городах России и стран СНГ.

Преимущества для наших заказчиков:

- работа по тендерам с 2012 года
- оформление банковских гарантий
- отсрочки платежей
- поставка электронных компонентов по проектным ценам
- инженерная поддержка проектов заказчиков
- сертификат системы менеджмента качества ISO 9001-2015
- необходимые сертификаты и лицензии

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