

External GPS/GLONASS + LTE MIMO + WiFi MIMO Antenna



AEACBK110053-MLWG



Ø110.0 x 53.0 mm
RoHS/RoHS II Compliant
MSL = 1

Features

- 2 x 4G/LTE
- 2 x WiFi 2.4/5.5 GHz
- Active GPS/GLONASS
- Active GNSS with LNA gain of 28 dB
- RHCP for GNSS
- Linear polarized LTE and WiFi
- IP67 rated
- Screw mount

Applications

- 4G/LTE/3G/2G/GSM applications
- GNSS/GPS/GLONASS
- Gateways and routers
- WiFi 2.4/5.5 GHz
- Telematics
- M2M
- IoT and Industrial IoT
- Geolocation and tracking
- Transportation and agriculture
- Smart city

Electrical Characteristics

Parameters	Min.	Typ.	Max	Units	Note
LTE MIMO Antenna					
Frequency Range		698-960/1710-2690		MHz	
VSWR			3.0		
Polarization	Linear				
Impedance		50		Ω	
Gain		3.0		dBi	
GNSS (GPS & GLONASS) Antenna					
Center Frequency		1575.42-1610		MHz	
Polarization	RHCP				
Impedance		50			
Dimension		25.0 x 25.0 x 6.0		mm	
GNSS LNA					
Gain		28±2		dB	
Noise Figure			1.5	dB	
VSWR			2.0		
Supply Voltage	3.0		5.0	V	DC
Current Consumption			15	mA	
WiFi MIMO Antenna					
Frequency Range		2400-2483.5MHz/ 4900 - 5825MHz		MHz	
VSWR			2.5		
Polarization	Linear				
Impedance		50		Ω	
Gain		2.0		dBi	

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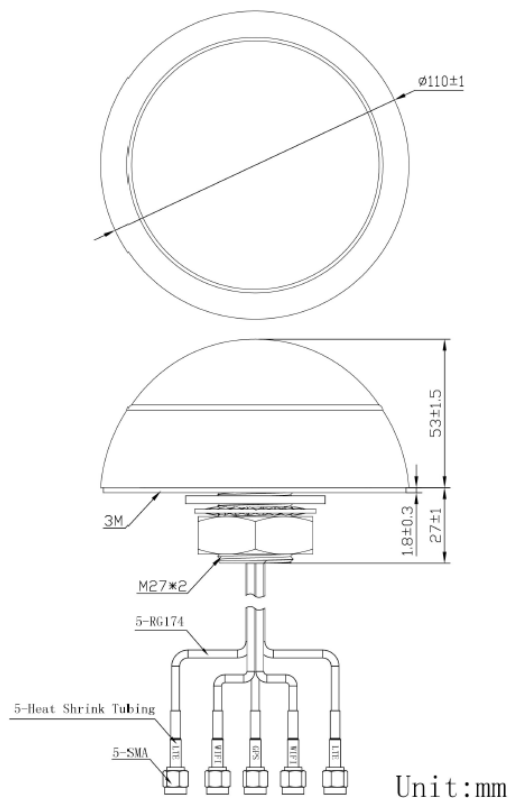
Mechanical Characteristics

Parameters	Description
Connector	SMA Male
Cable Type	RG174
Cable Length	3M
Radome Material	ABS
Mounting Method	Screw
Dimensions	Φ110.0 x 53.0 mm

Environmental Characteristics

Parameters	Description
Waterproof	IP67 (exclude cable outlet)
Operating Temperature	-40 ~ +85°C
Relative Humidity	Up to 95%
MSL Level	1
ROHS Compliant	Yes
Vibration	10 to 55Hz with 1.5mm amplitude 2 hours

Dimensions



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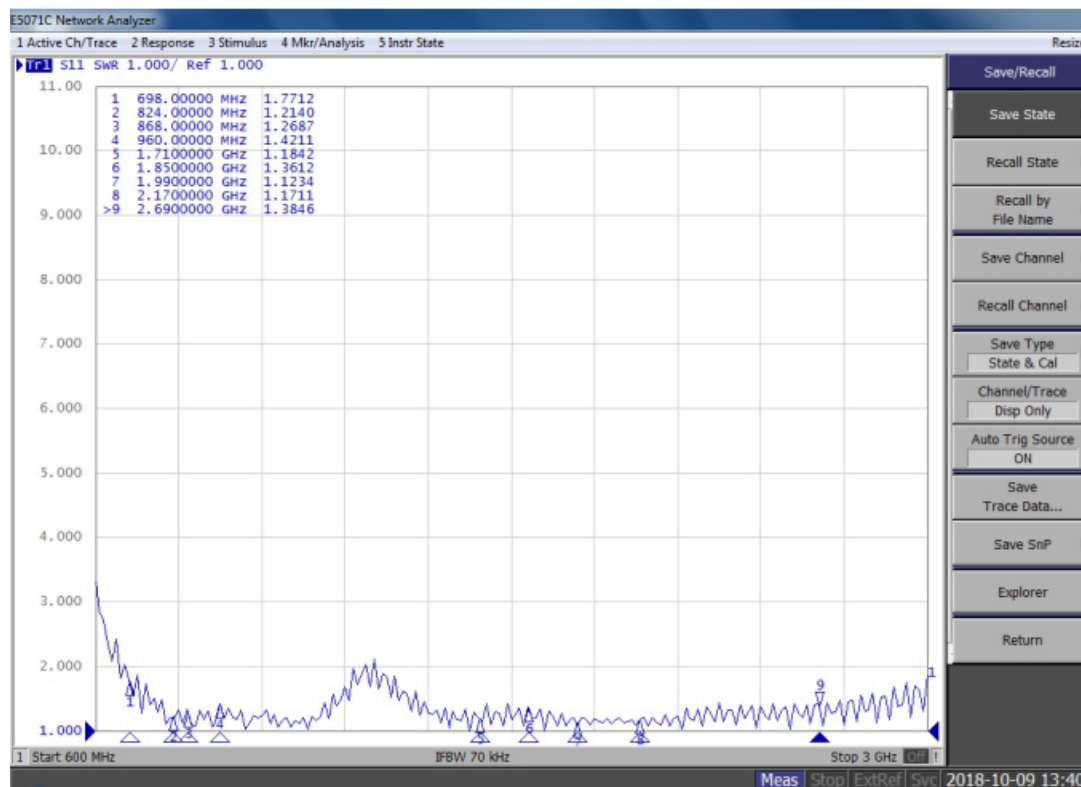
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Product Image



VSWR Characteristics

LTE



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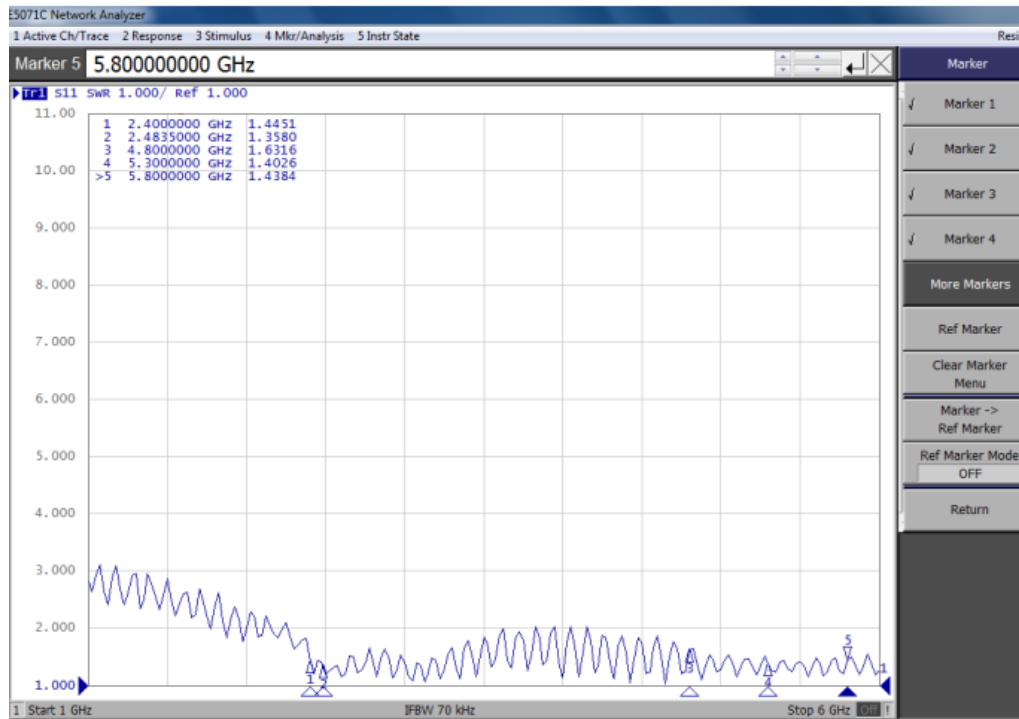
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VSWR Characteristics

WiFi



Gain and Efficiency

Frequency (MHz)	Efficiency	Gain (dBi)
698.0	0.52	2.05
824.0	0.57	2.18
868.0	0.67	2.89
960.0	0.58	1.1
1710.0	0.57	0.8
1850.0	0.52	0.45
1990.0	0.57	0.81
2170.0	0.61	1.87
2690.0	0.56	1.69
2400.0	0.63	0.67
2450.0	0.62	1.75
2483.5	0.59	1.96
4800.0	0.57	0.83
5300.0	0.56	1.85
5800.0	0.58	1.75

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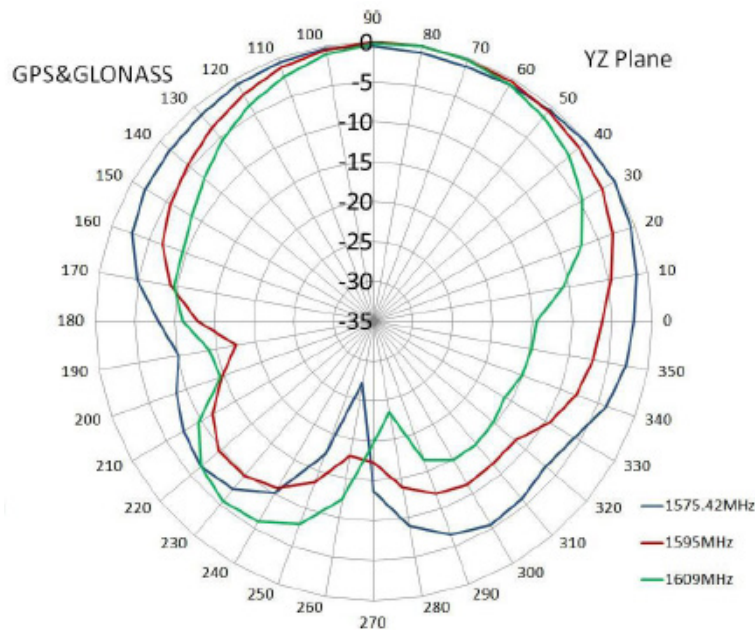
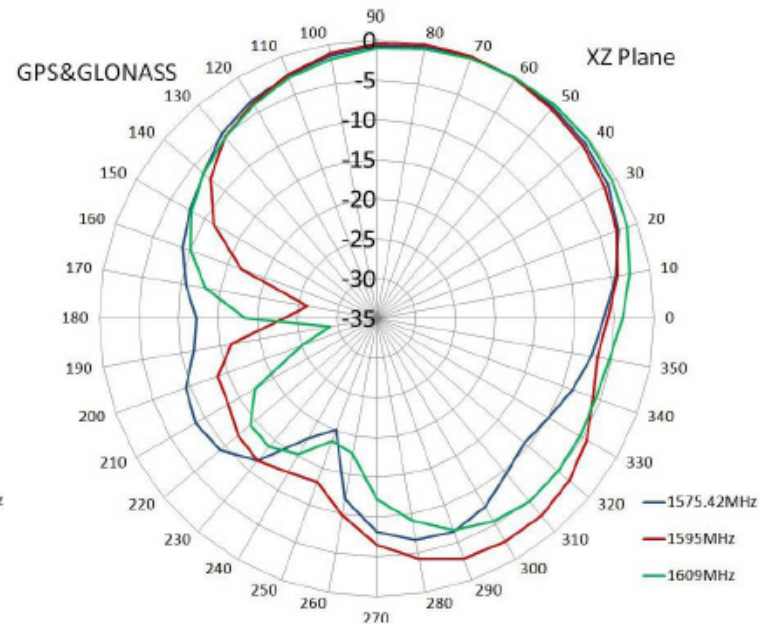
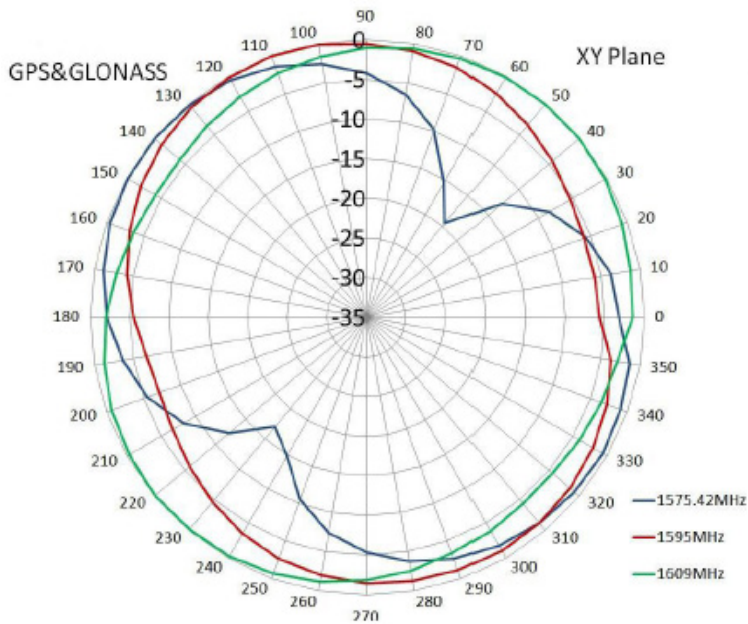
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Radiation Patterns

2D Radiation Patterns
GPS Antenna



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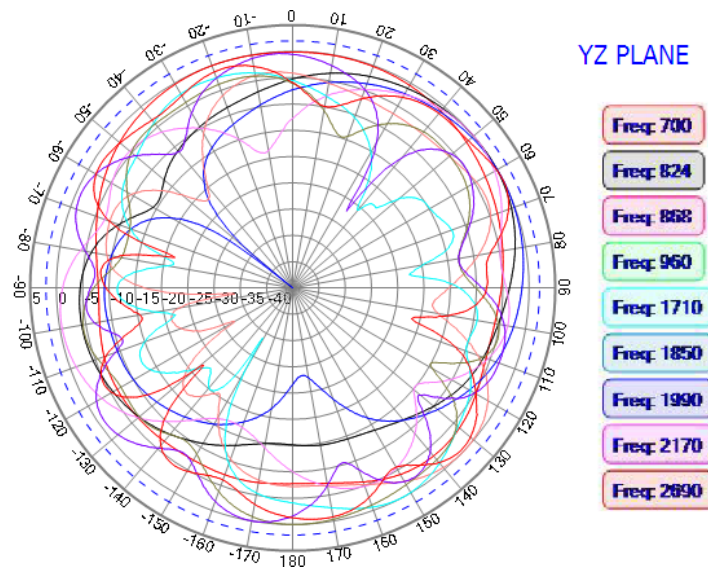
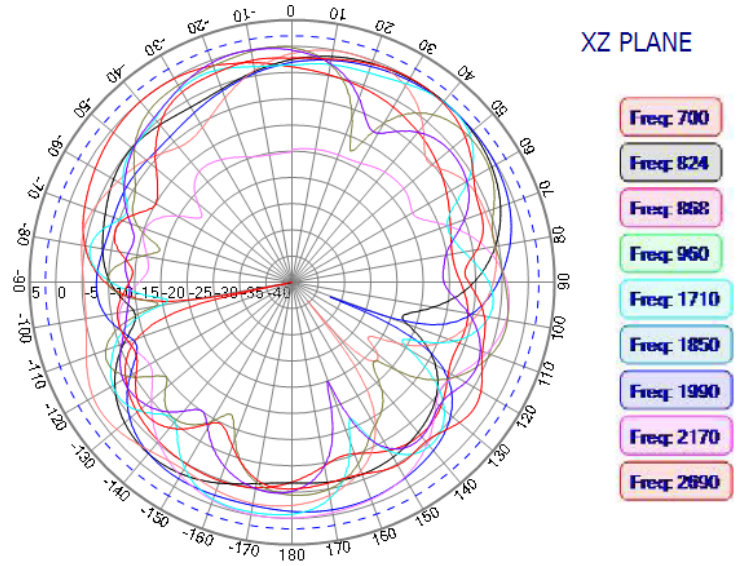
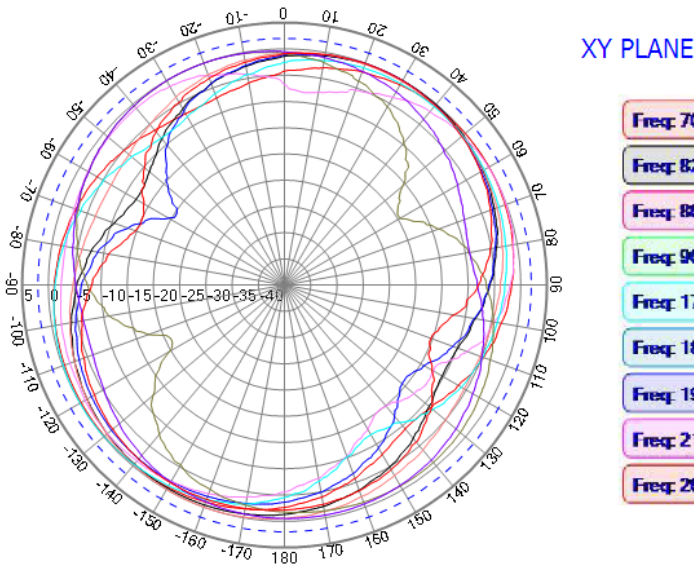


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LTE Antenna



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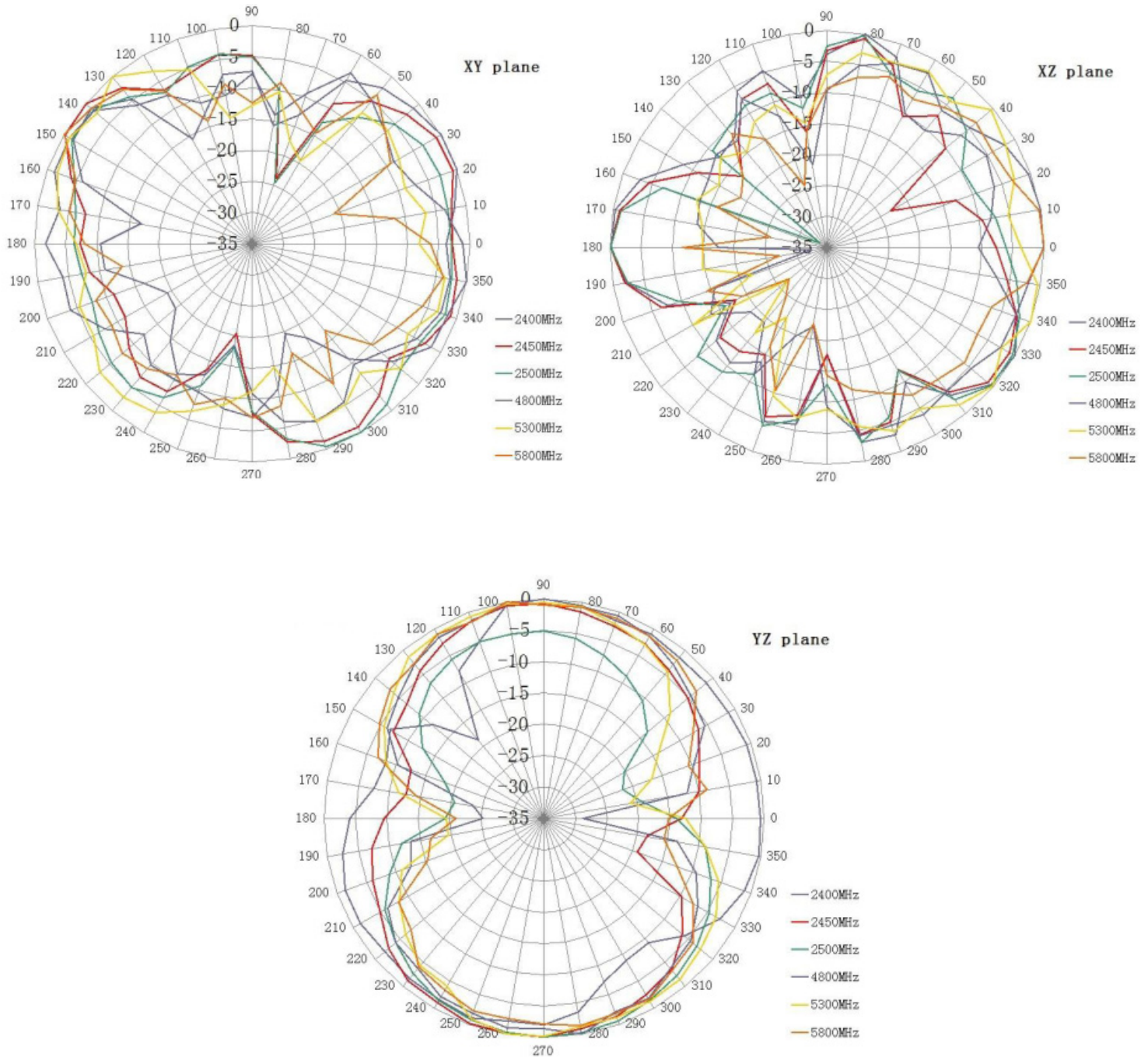


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WiFi Antenna



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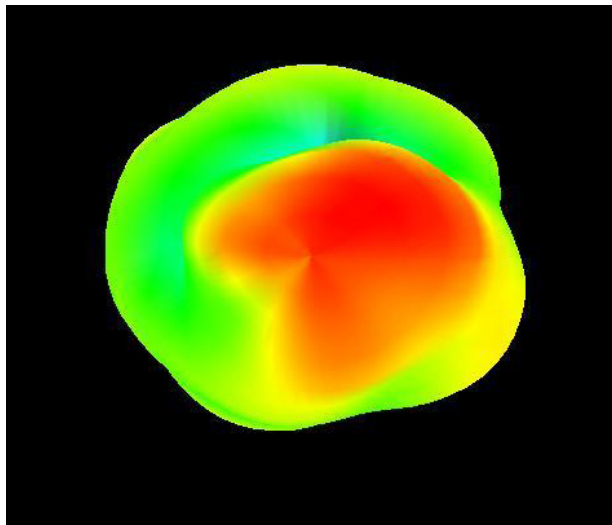


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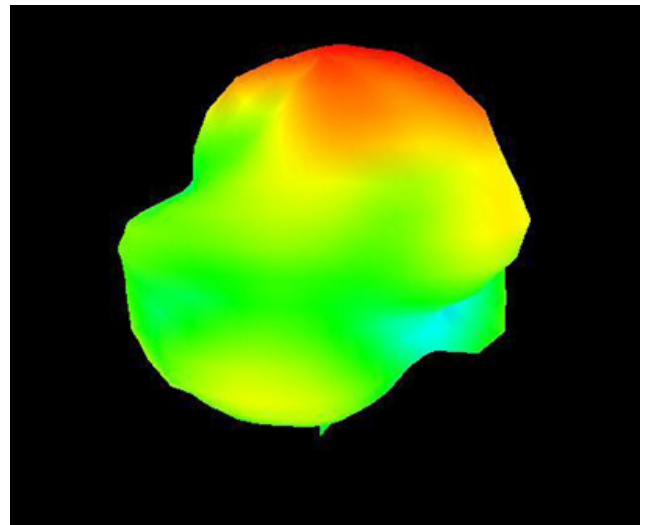
3D Radiation Patterns

GPS/GLONASS Antenna

1575.42MHz

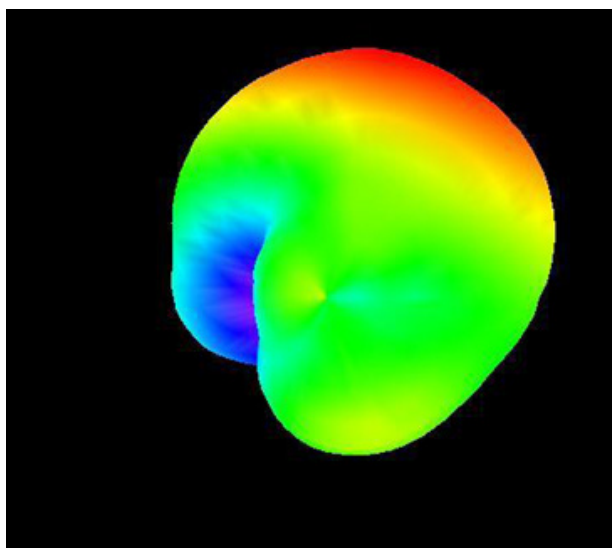


1610MHz

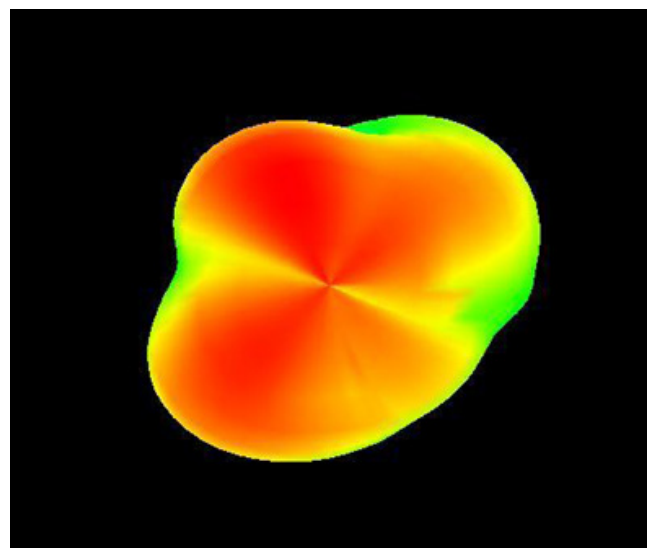


LTE Antenna

698 MHz



824 MHz



External GPS/GLONASS + LTE MIMO + WiFi MIMO Antenna



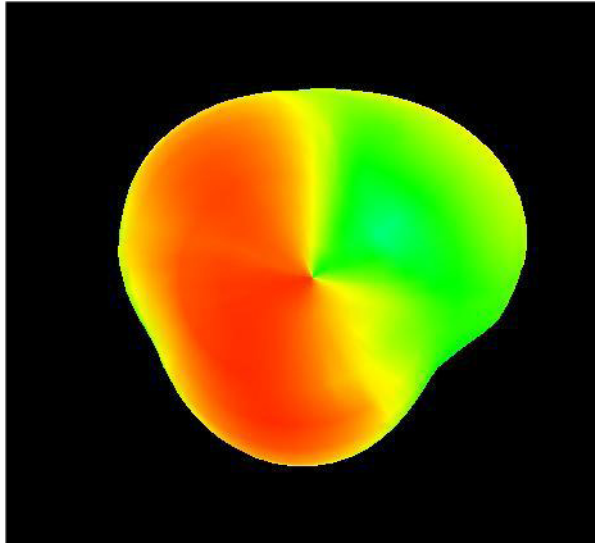
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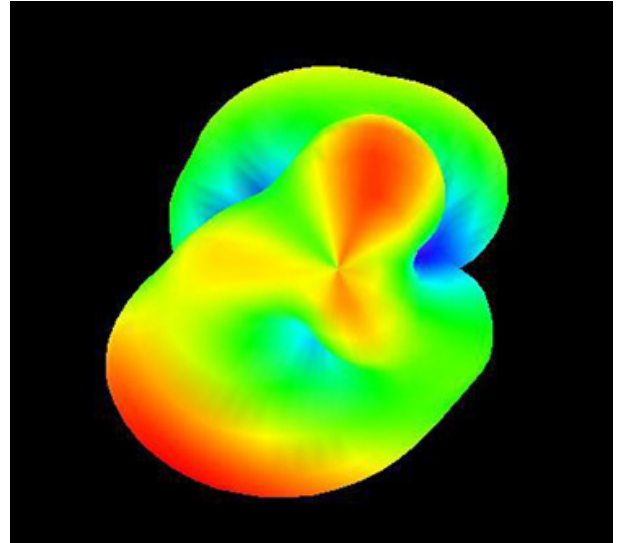
Ø110.0 x 53.0 mm
RoHS/RoHS II Compliant
MSL = 1

3D Radiation Patterns

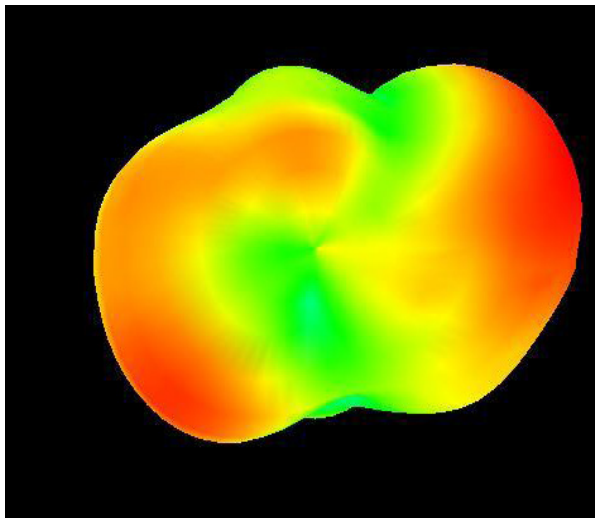
868 MHz



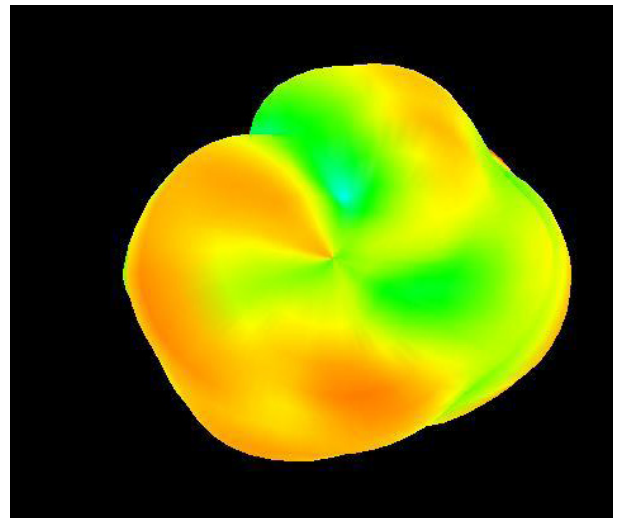
960 MHz



1710 MHz



1850 MHz



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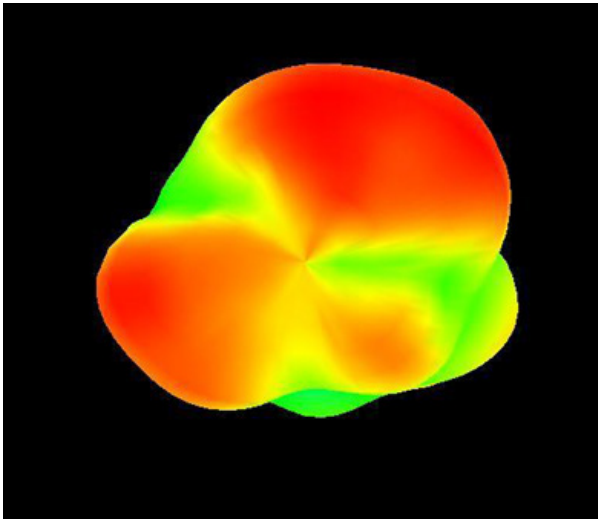
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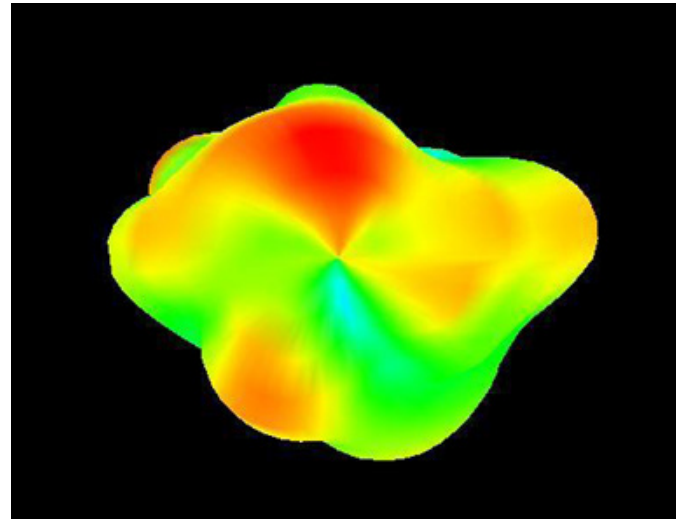
Ø110.0 x 53.0 mm
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3D Radiation Patterns

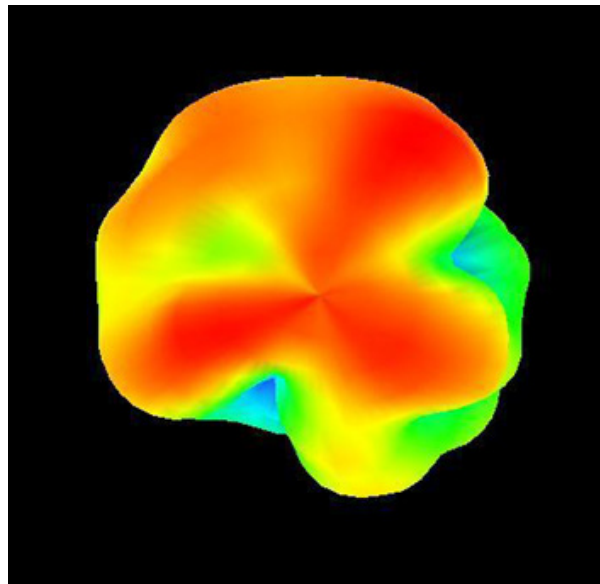
1990 MHz



2170 MHz



2690 MHz



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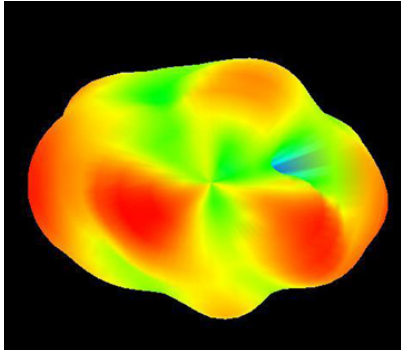


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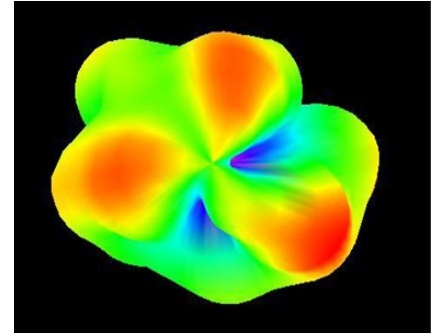
3D Radiation Patterns

WiFi Antenna

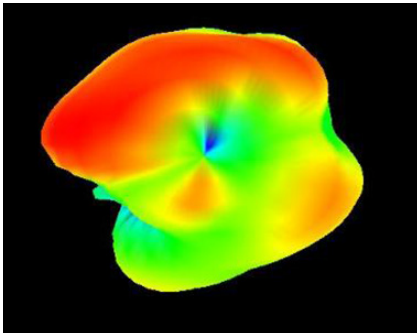
2400MHz



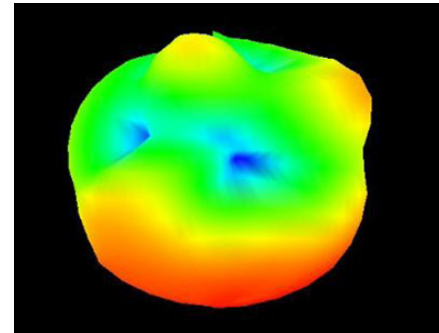
2483.5MHz



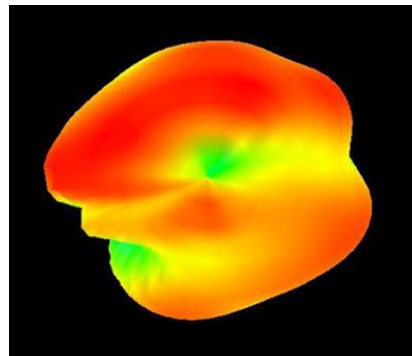
4800MHz



5300MHz



5800MHz



Packaging

Each 50.0 x 27.0 x 28.0 cm size carton includes 16 pcs antenna.

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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