

### AFAC120050-U6G



120.0 x 50.0 x 0.2 mm RoHS/RoHS II Compliant MSL = 1

#### **Features**

- Cellular 4G/LTE 2G/3G/GSM support
- Dualband 2.4/5 GHz WiFi
- GNSS band coverage
- Linear polarization
- High gain of 5 dBi
- Cable and connector (IPEX)
- Peel and stick with 3M tape

## **Applications**

- IoT
- M2M
- Cellular, WiFi, ISM, GNSS applications
- Home automation
- Smart city
- Wearables
- Transportation

## **Electrical Specifications**

Parameters	Min.	Тур.	Max.	Units	Note
Frequency Range		698 ~ 6000		MHz	
VSWR			4.0		Mount on NYLON Surface
Polarization		Linear			
Impedance		50		Ω	
Gain			5	dBi	Zenith

## **Environmental Characteristics**

Parameters	Description		
Operating temperature range	-40°C to +85°C		
Vibration	10 to 55 Hz with 1.5 mm amplitude 2 hours		

### **Mechanical Characteristics**

Description	Material
Connector	IPEX
Cable Type	RF 1.37/10CM
Mounting	Adhesive





## AFAC120050-U6G



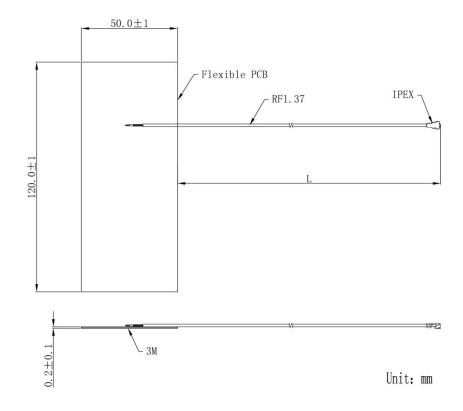
120.0 x 50.0 x 0.2 mm RoHS/RoHS II Compliant MSL = 1

## **Product Image**





### **Dimensions**





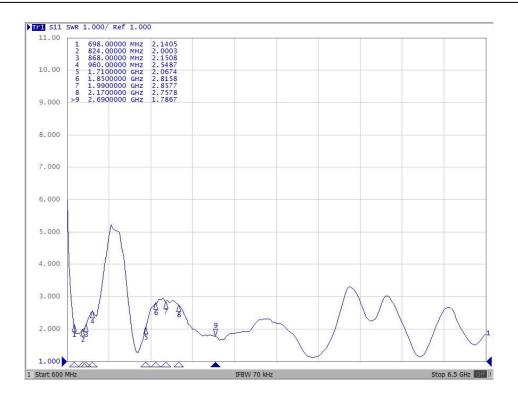


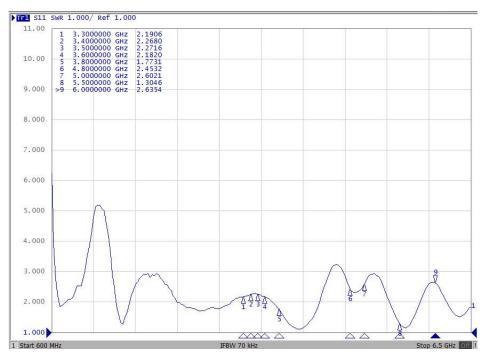
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### **VSWR**







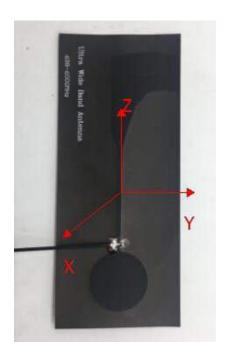


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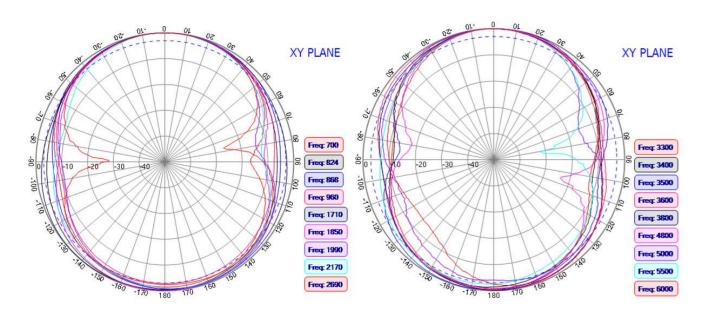
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### **Radiation Patterns**



## **2D Patterns**

## XY Plane







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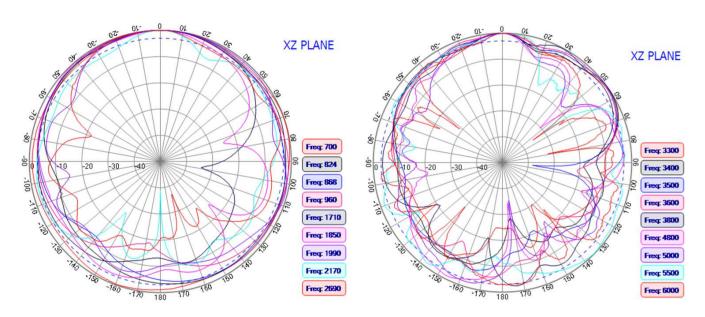


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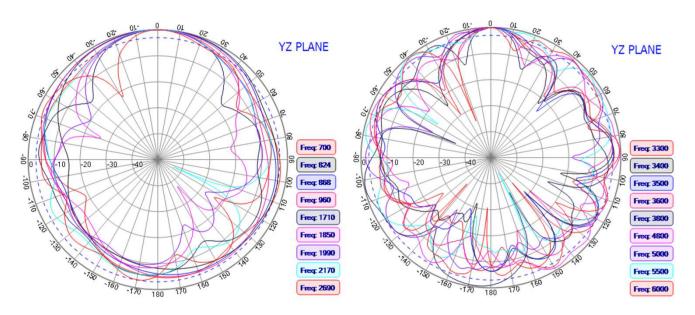
### **Radiation Patterns**

### **2D Patterns**

## **XZ Plane**



## **YZ Plane**





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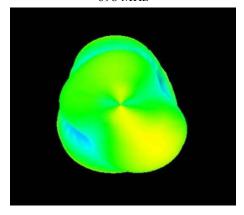
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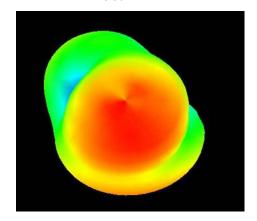
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## **3D Radiation Patterns**

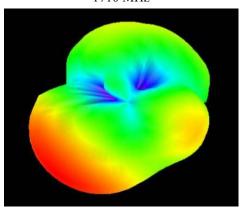
698 MHz



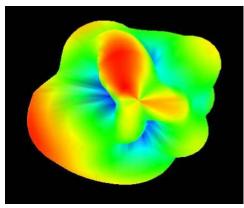
960 MHz



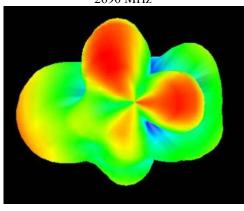
1710 MHz



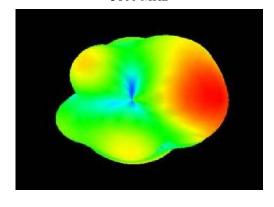
2710 MHz



2690 MHz



3800 MHz







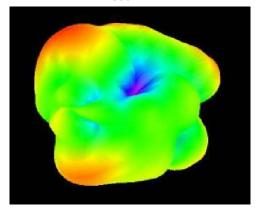
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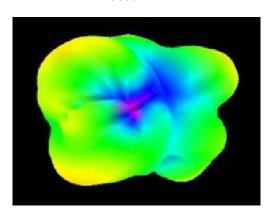
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#### **3D Radiation Patterns**

4800 MHz



### 5800 MHz



Frequency (MHz)	Efficiency	Gain (dBi)
698	0.59	2.51
824	0.64	3.73
960	0.67	5.32
1710	0.63	4.63
2170	0.58	2.67
2690	0.61	3.78
3800	0.57	2.18
4800	0.59	2.33
5800	0.58	1.98

### **Packaging**

The package has 1000 pcs of antennas and is of dimension 37 x 36 x 17 cm.

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