

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





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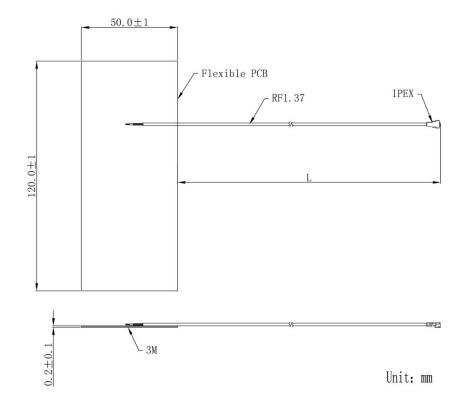
120.0 x 50.0 x 0.2 mm RoHS/RoHS II Compliant MSL = 1

Product Image





Dimensions





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REVISED: 01.28.2019

ABRACON IS ISO9001-2015 CERTIFIED

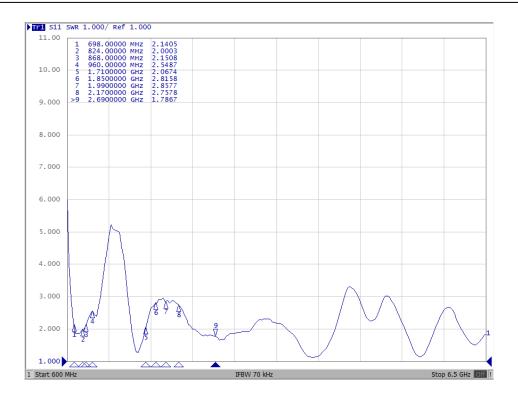


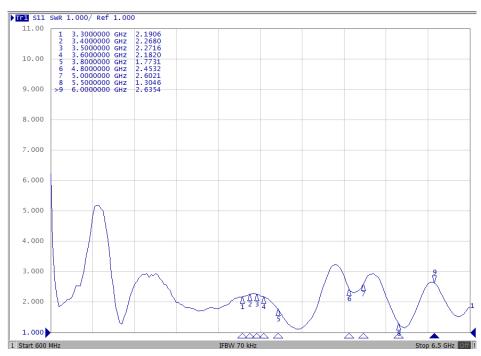
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VSWR







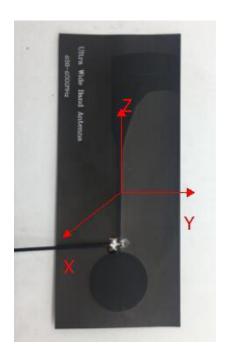


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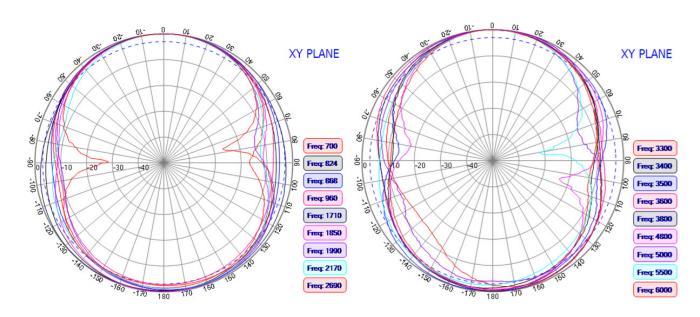
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Radiation Patterns



2D Patterns

XY Plane





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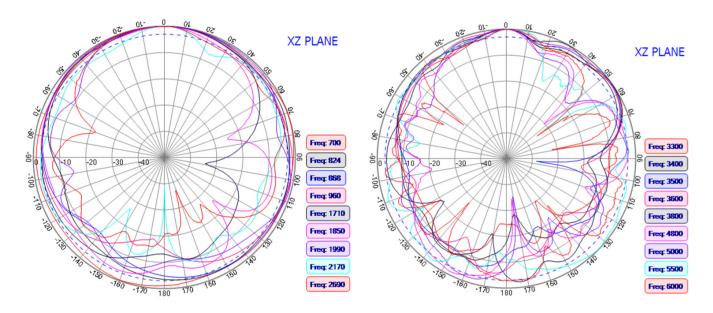


120.0 x 50.0 x 0.2 mm RoHS/RoHS II Compliant MSL = 1

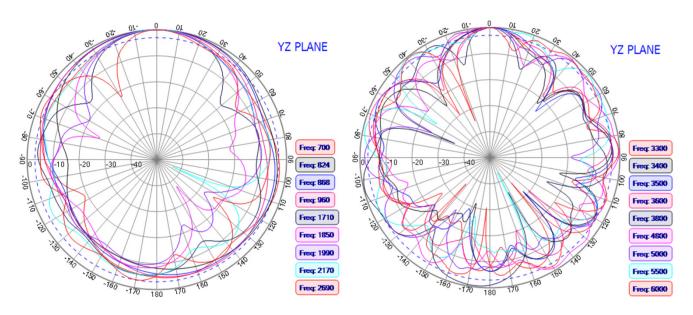
Radiation Patterns

2D Patterns

XZ Plane



YZ Plane





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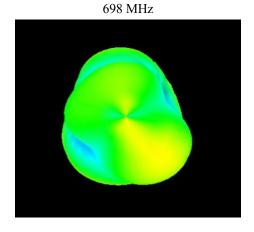


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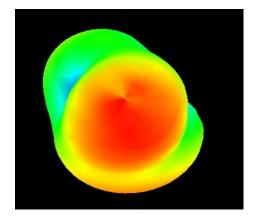


120.0 x 50.0 x 0.2 mm **RoHS/RoHS II Compliant** MSL = 1

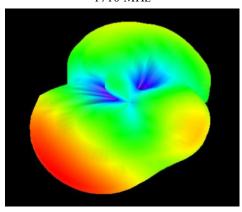
3D Radiation Patterns



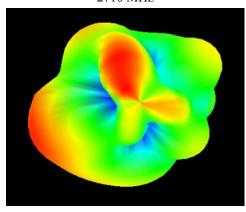
960 MHz



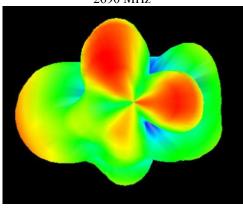
1710 MHz



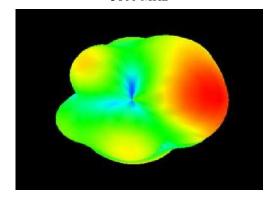
 $2710\,\mathrm{MHz}$



2690 MHz



3800 MHz







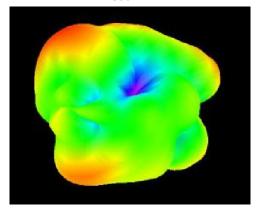
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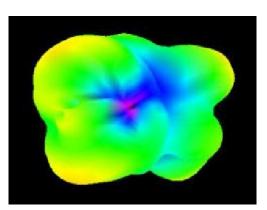
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3D Radiation Patterns

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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