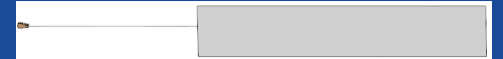


# 4G/LTE Flexible Printed Antenna



AFAC110020-S698

110.0 x 20.0 x 0.2 mm  
RoHS/RoHS II Compliant  
MSL - 1

## FEATURES

- Operates in 698-2700 MHz
- Linear polarization
- Low VSWR
- Low profile
- Omni-directional pattern
- IPEX connector with cable

## APPLICATIONS

- Cellular
- Transportation
- Industrial wearable
- Smart city
- Smart agriculture
- Home automation

## Electrical Specifications

Parameters	Min.	Typ.	Max.	Units	Note
Frequency Range		698~960/1710~2690		MHz	
VSWR			2.0		
Polarization Model		Linear			
Impedance		50		$\Omega$	
Gain		3.0		dBi	

## Mechanical Characteristics

Parameters	Description
Connector	IPEX
Cable Type	100mm/RF1.13
Mounting	Embedded
FPC Dimensions	110 x 20 x 0.2 mm

## Environmental Characteristics

Parameters	Note
Operating Temperature	-40°C to +85°C
Vibration	10 to 55Hz with 1.5mm amplitude 2 hours
ROHS Compliant	Yes
MSL Level	1



5101 Hidden Creek Ln Spicewood TX 78669  
Phone: 512-371-6159 | Fax: 512-351-8858  
For terms and conditions of sales, please visit:  
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REVISED: 01.25.2019

ABRACON IS  
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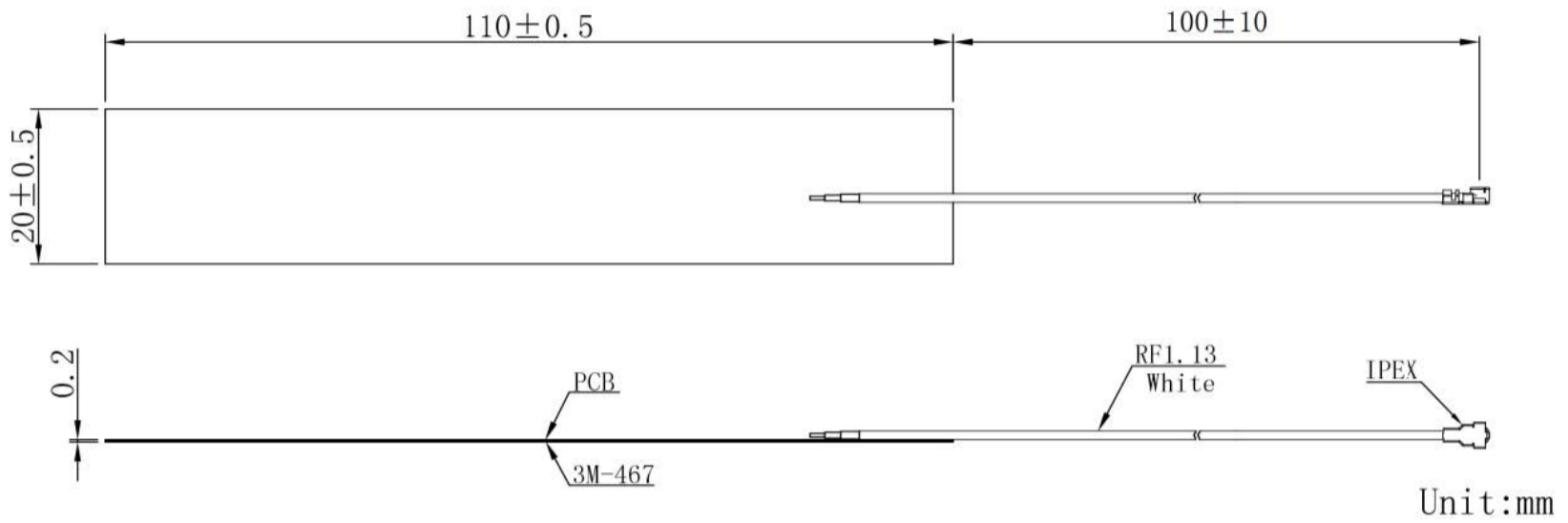
# 4G/LTE Flexible Printed Antenna



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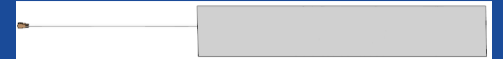
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## Dimensions



## Product Image

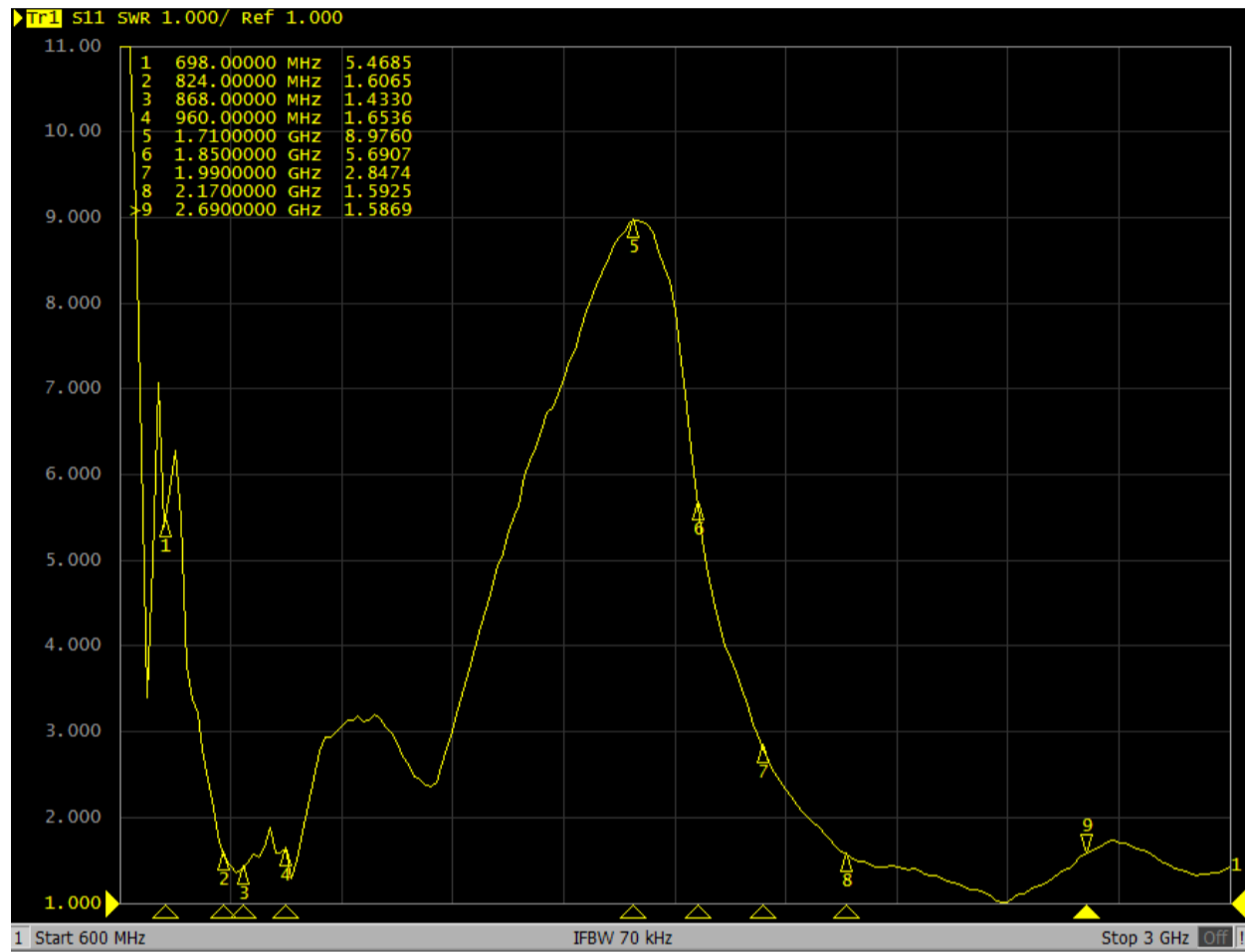




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## VSWR

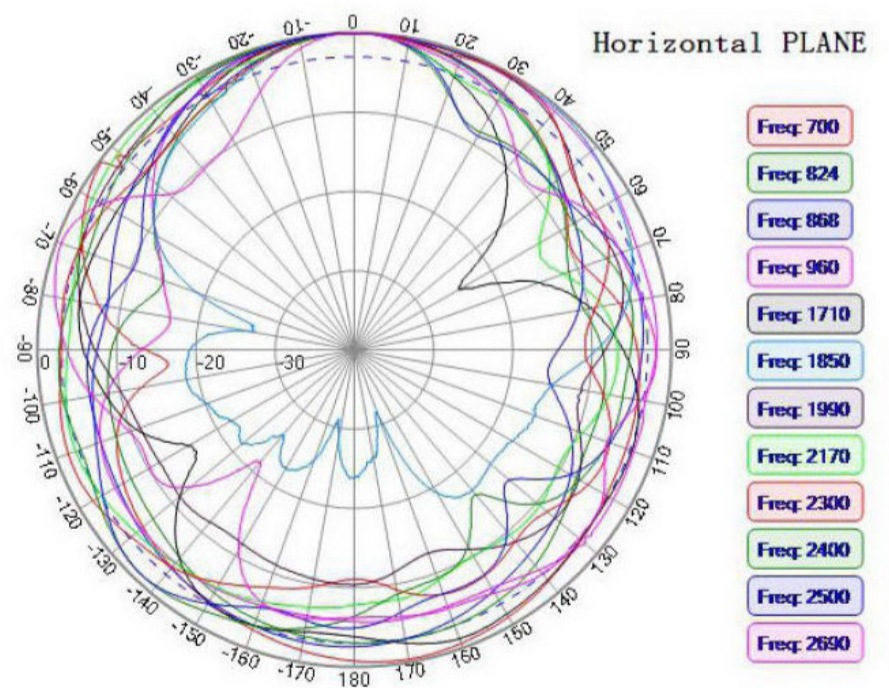
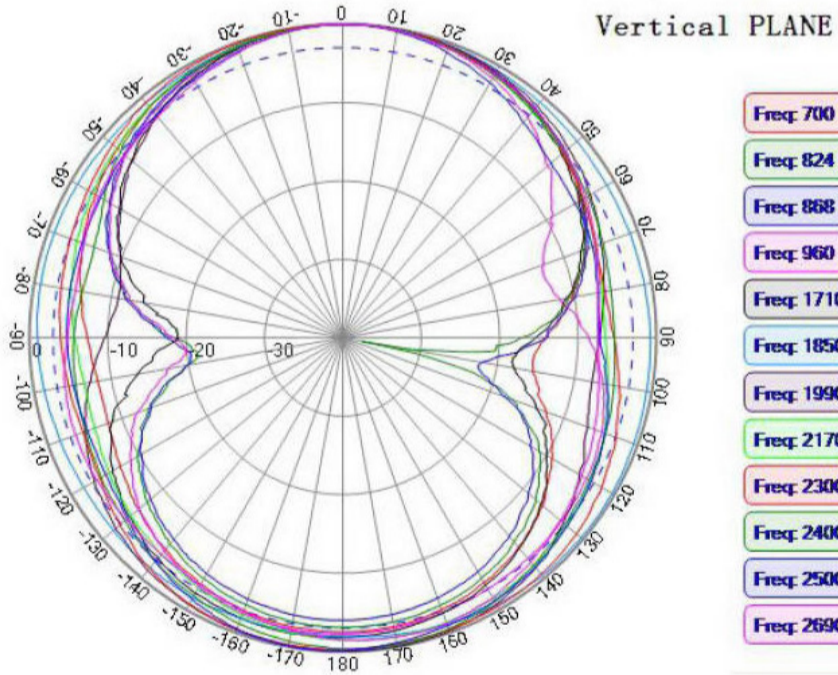
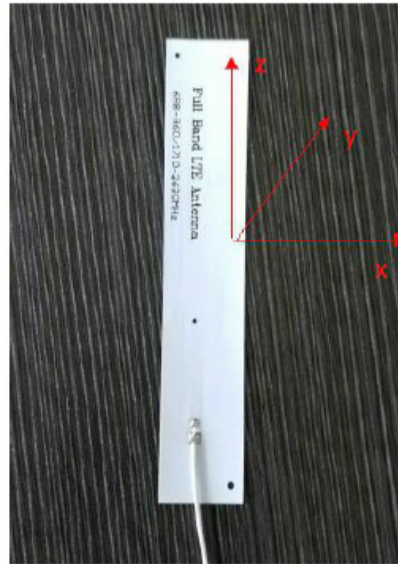


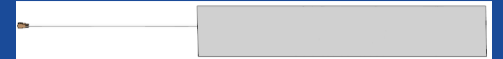


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## Radiation Patterns





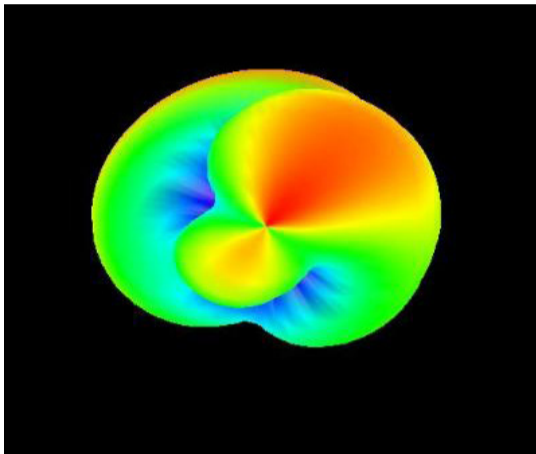
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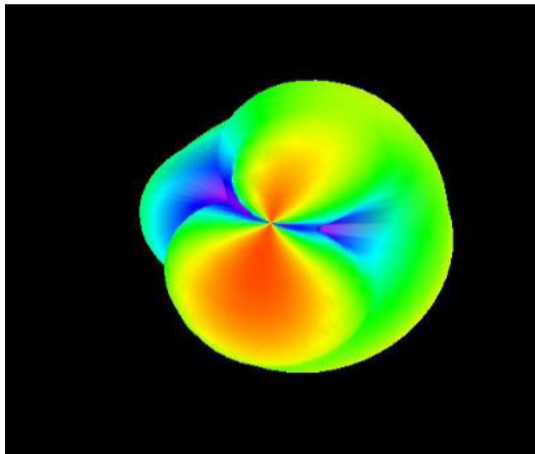
**Radiation Patterns**

**3D-Pattern**

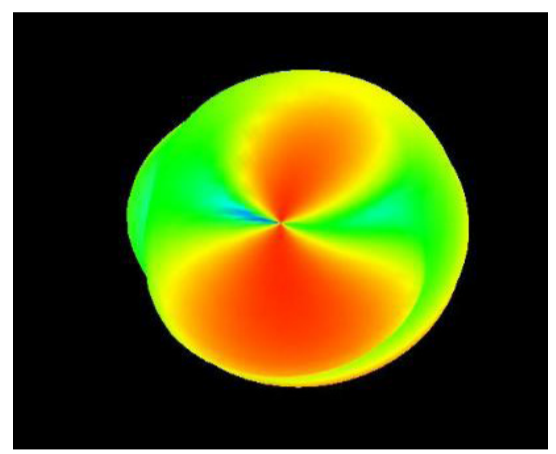
698 MHZ



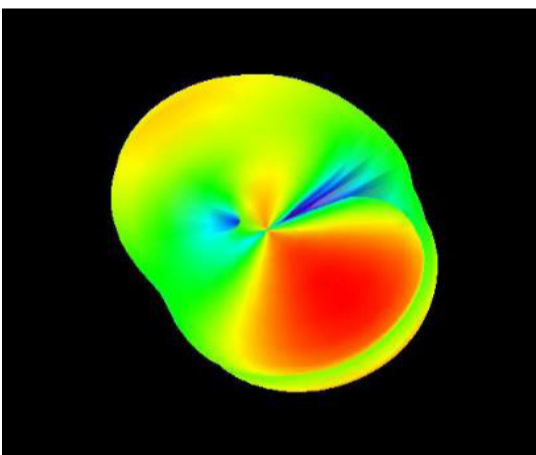
824 MHZ



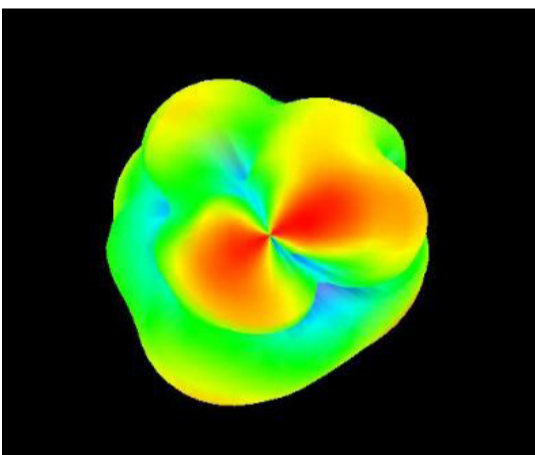
868 MHZ



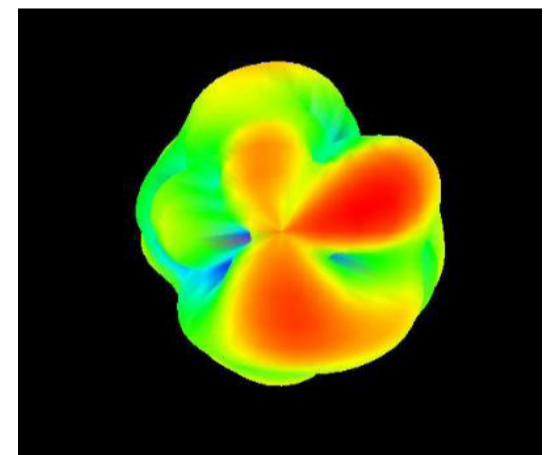
960 MHZ



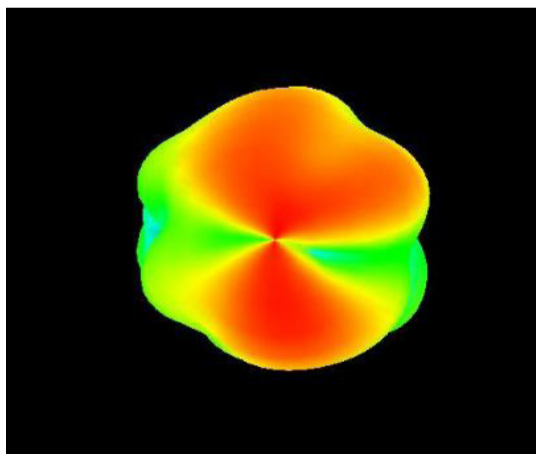
1710 MHZ



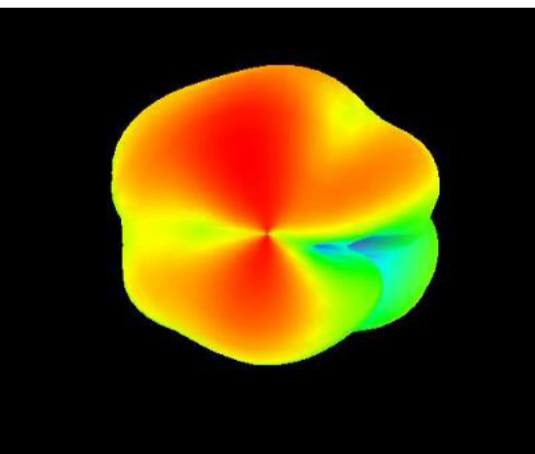
1850 MHZ



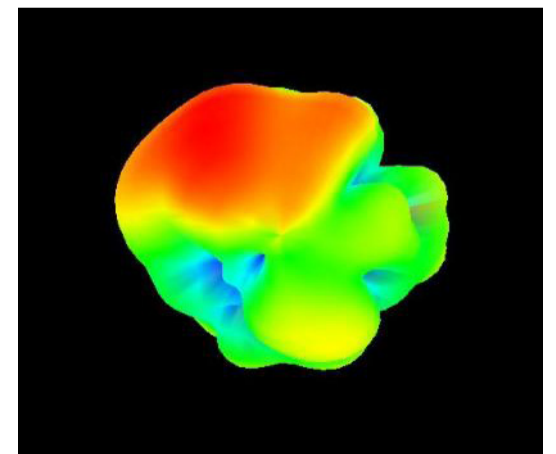
1990 MHZ



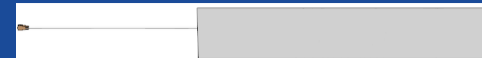
2170 MHZ



2690 MHZ



# 4G/LTE Flexible Printed Antenna



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**RoHS/RoHS II Compliant**  
**MSL - 1**

## Gain and Efficiency

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Frequency (MHz)	Efficiency	Gain (dBi)
698	0.43	0.53
824	0.58	3.02
868	0.59	3.04
960	0.46	2.82
1710	0.39	-6.96
1850	0.42	-0.69
1990	0.47	1.51
2170	0.56	2.46
2690	0.56	2.53

## Packaging

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Each 37 x 36 x 17 cm size carton includes 1000 pcs antenna, weighs 8 kg



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