

2x MIMO 4G/LTE Flexible Printed Antenna



AFAC240020-M698



240.0 x 20.0 x 0.2 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Features

- Covers 4G/LTE
- Operates in 698-960/1710-2690 MHz
- Linear polarization
- Gain of 3.0 dBi
- Low profile
- Omni-directional pattern
- IPEX connectors with cables
- Adhesive mounting

Applications

- Cellular 2G/3G/4G applications
- IoT
- SmartGrid, Meters
- Remote Monitoring, Sensor Networks
- Transportation
- Industrial wearable
- Smart city
- Smart agriculture
- Home automation
- Gateways and Routers
- High speed HD streaming
- LTE Access Points

Electrical Specifications

Parameters	Min.	Typ.	Max.	Units	Notes
Frequency Range		698~960 / 1710~2690		MHz	
VSWR			3.0		
Polarization Model		Linear			
Impedance		50		Ω	
Gain		3.0		dBi	

Mechanical Specification

Parameters	Description
Connector	IPEX
Cable Type	RF1.37/100mm
Mounting	Embedded
FPC Dimensions	240 x 20 x 0.2 mm

Environmental Specification

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

2x MIMO 4G/LTE Flexible Printed Antenna

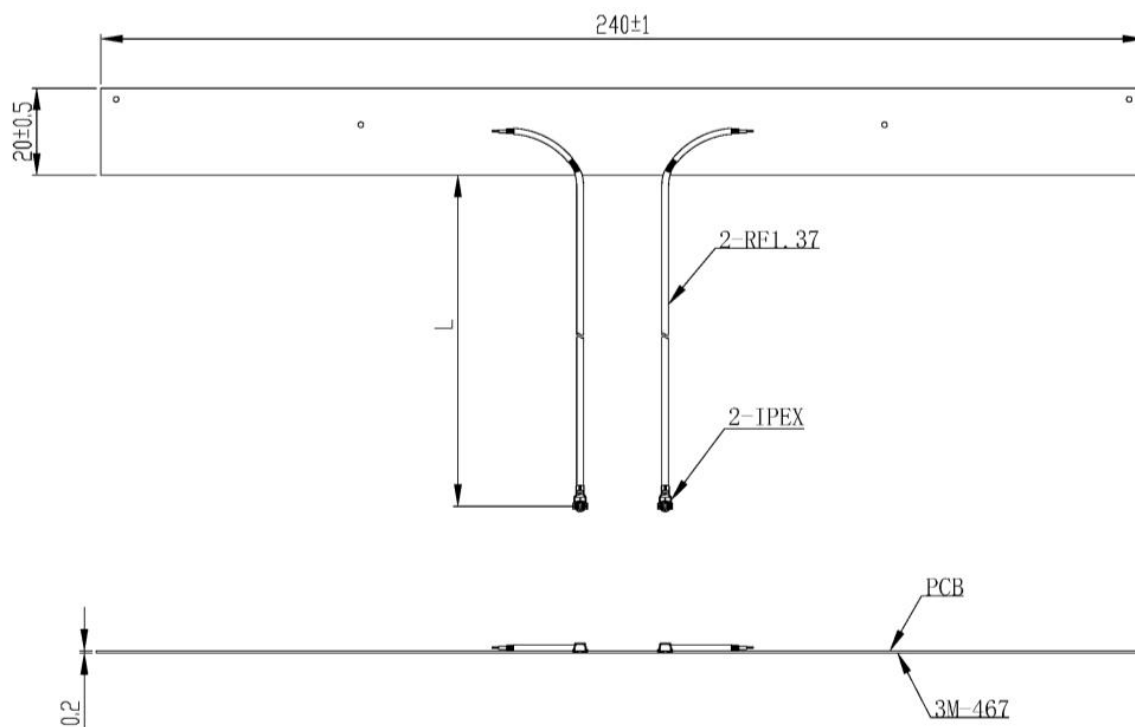


AFAC240020-M698

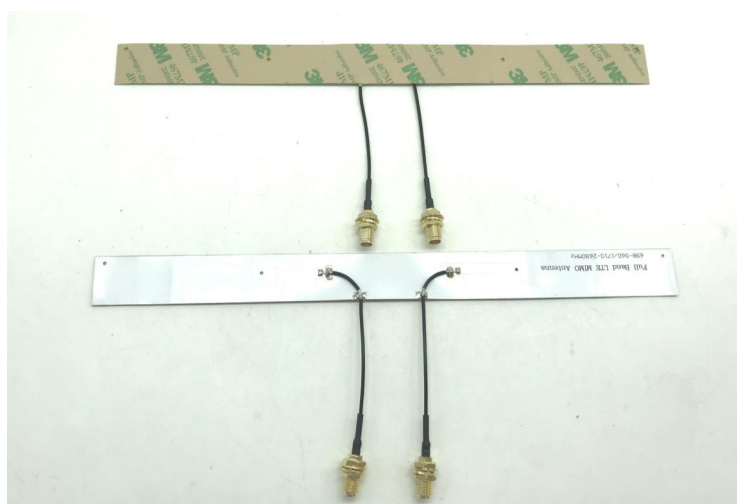


240.0 x 20.0 x 0.2 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Dimensions



Unit:mm



2x MIMO 4G/LTE Flexible Printed Antenna

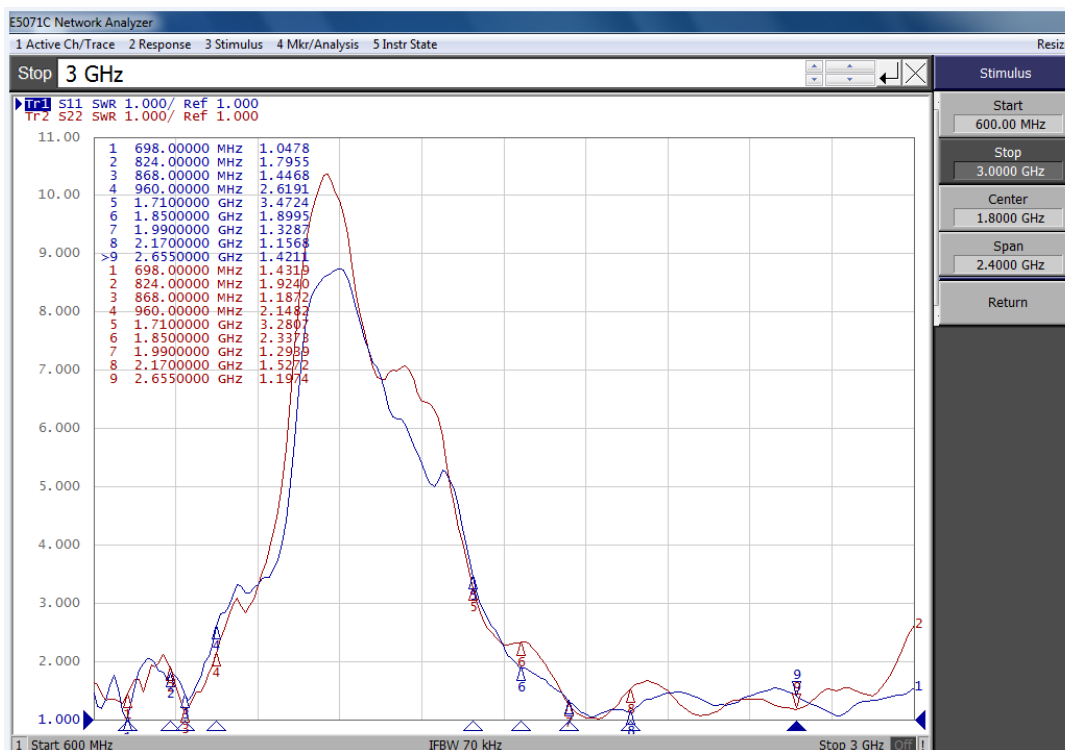


AFAC240020-M698



240.0 x 20.0 x 0.2 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

VSWR



2x MIMO 4G/LTE Flexible Printed Antenna



AFAC240020-M698

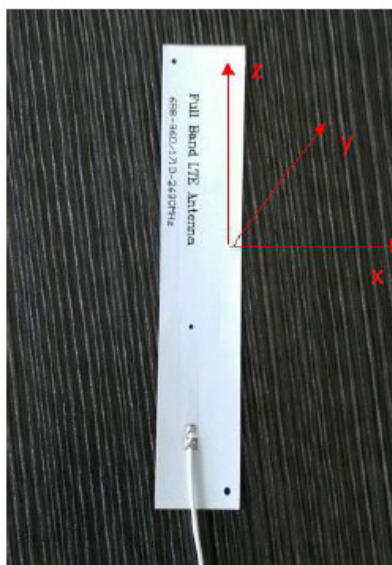


240.0 x 20.0 x 0.2 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Gain & Efficiency

Frequency	Efficiency	Gain (dBi)
698	0.66	2.53
824	0.64	3.95
868	0.67	4.17
960	0.64	2.82
1710	0.59	-0.07
1850	0.61	1.05
1990	0.60	1.51
2170	0.59	2.46
2690	0.59	2.53

Radiation Pattern



2x MIMO 4G/LTE Flexible Printed Antenna



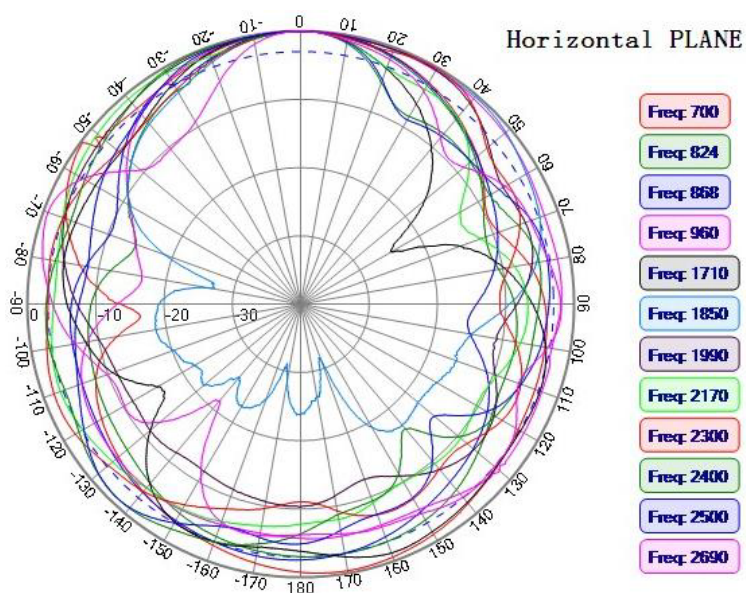
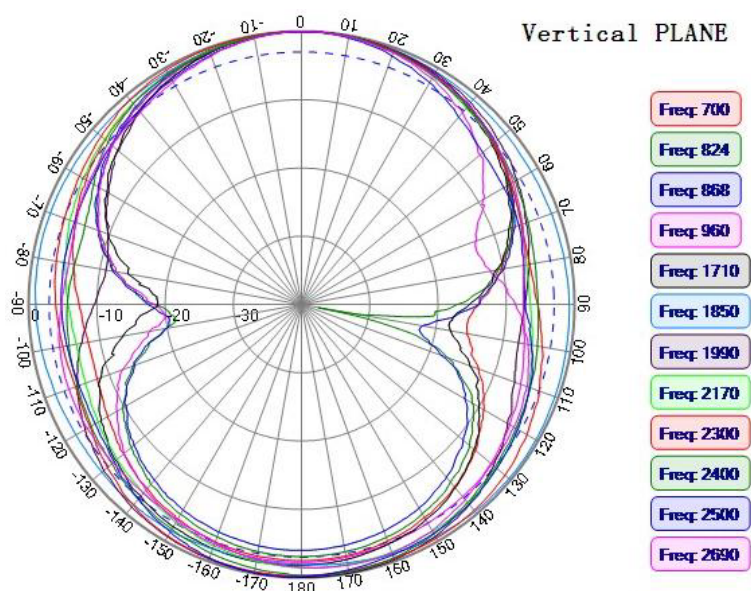
AFAC240020-M698



240.0 x 20.0 x 0.2 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Radiation Pattern

2D Pattern



2x MIMO 4G/LTE Flexible Printed Antenna



AFAC240020-M698

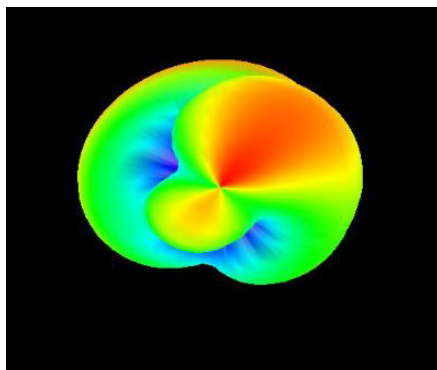


240.0 x 20.0 x 0.2 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

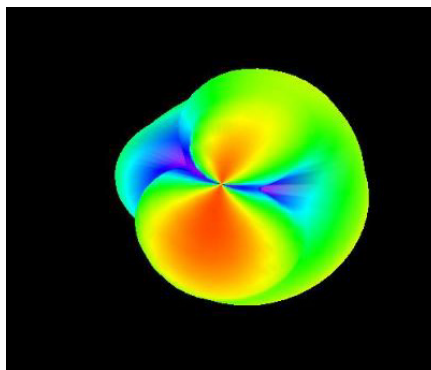
Radiation Pattern

3D Pattern

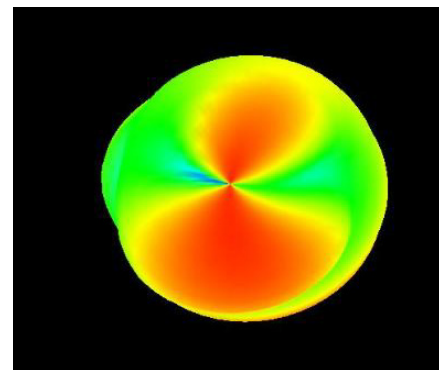
698 MHz



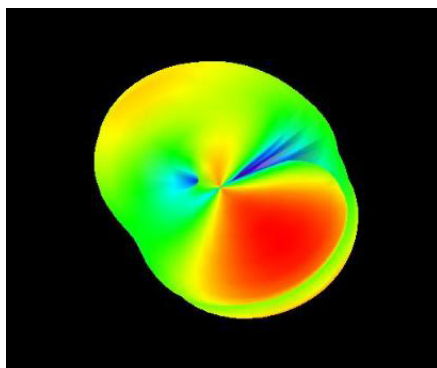
824 MHz



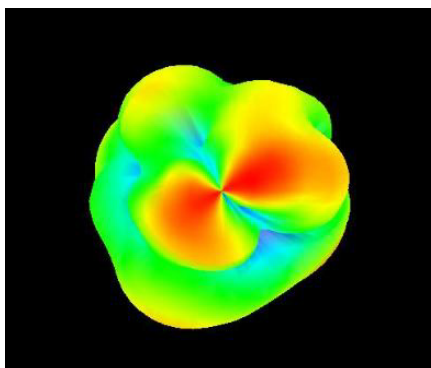
868 MHz



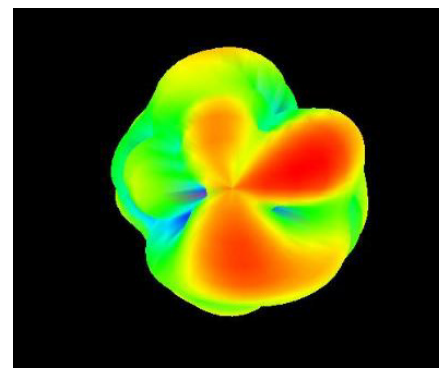
960 MHz



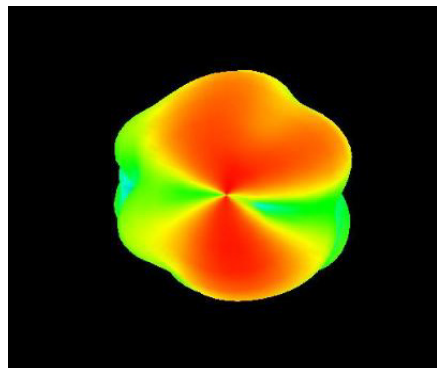
1710 MHz



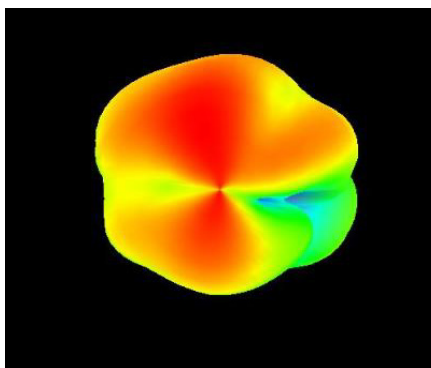
1850 MHz



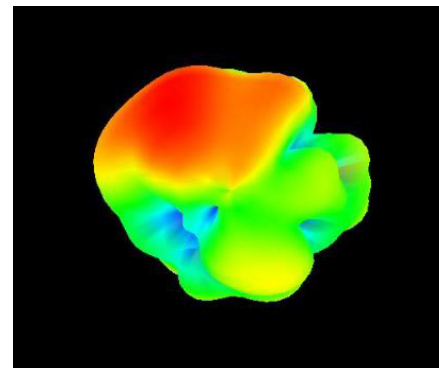
1990 MHz



2170 MHz



2690 MHz



2x MIMO 4G/LTE Flexible Printed Antenna



AFAC240020-M698



240.0 x 20.0 x 0.2 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Packaging

Each 37 x 36 x 17 cm size carton includes 500 pcs antenna, weighs 10 kg

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



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

REVISED: 10-24-19

ABRACON IS
ISO9001-2015
CERTIFIED

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ABRACON:](#)

[AFAC240020-M698](#)