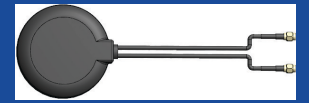


# 2x2 4G/LTE MIMO Antenna



AEACBA081014-M698



Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

MSL - N/A

## FEATURES

- Covers 4G/LTE
- Operates in 698-2700 MHz
- IP67 rated
- Linear polarization
- Gain of 3.0 dBi
- Adhesive mounting

## APPLICATIONS

- 4G/LTE
- Telematics
- Fleet monitoring
- IoT
- Video, Surveillance
- Femtocells
- M2M

## Electrical Specifications

Parameters	Min	Typ.	Max.	Units	Note
Frequency Range		698-960/1710-2690		MHz	
VSWR			3.0		
Polarization Model	Linear				
Impedance		50		Ω	
Gain Main		3		dBi	Zenith
Gain AUX		3		dBi	Zenith

## Mechanical Characteristics

Parameters	Description
Connector	2xSMA Male
Cable Type	2xRG174
Cable Length	2x2M
Material	ABS
Mount way	Adhesive
Dimensions	Φ81.6x14.5mm

# 2x2 4G/LTE MIMO Antenna



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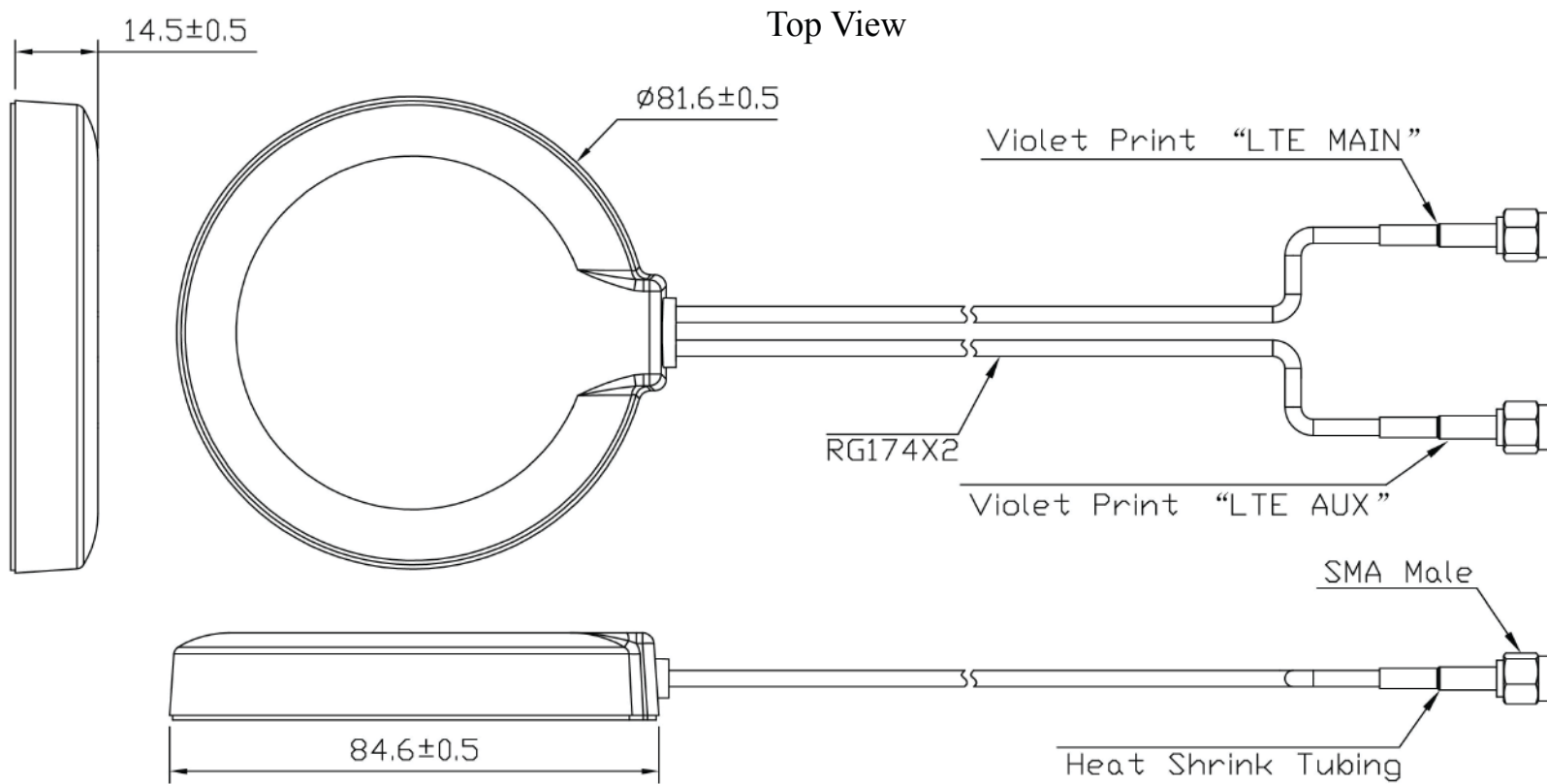
Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

MSL - N/A

## Environmental Characteristics

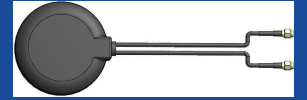
Parameters	Description
Waterproof	IP67
Operating Temperature	-40 ~ +85 °C
Relative Humidity	Up to 95%
MSL Level	N/A
ROHS Compliant	Yes
Vibration	10 to 55Hz with 1.5mm amplitude 2 hours

## Dimensions



Unit:mm

# 2x2 4G/LTE MIMO Antenna



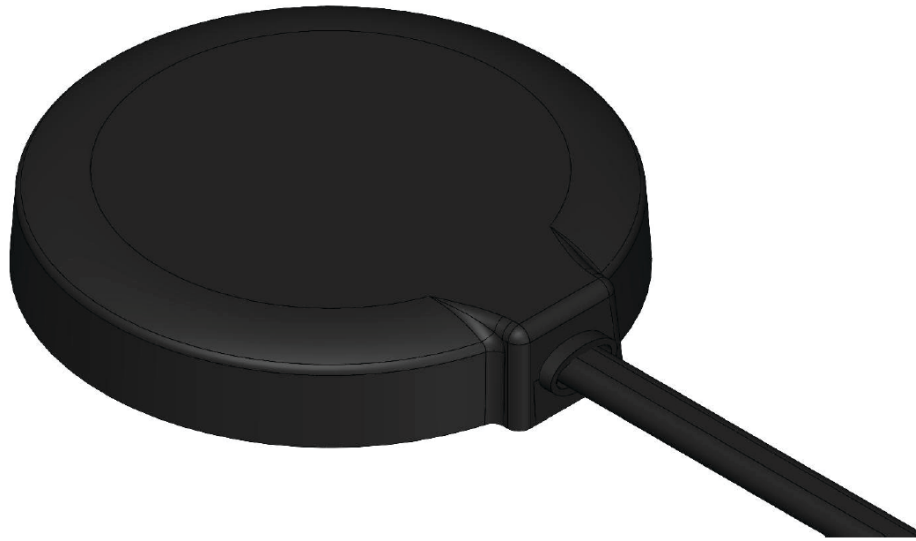
AEACBA081014-M698



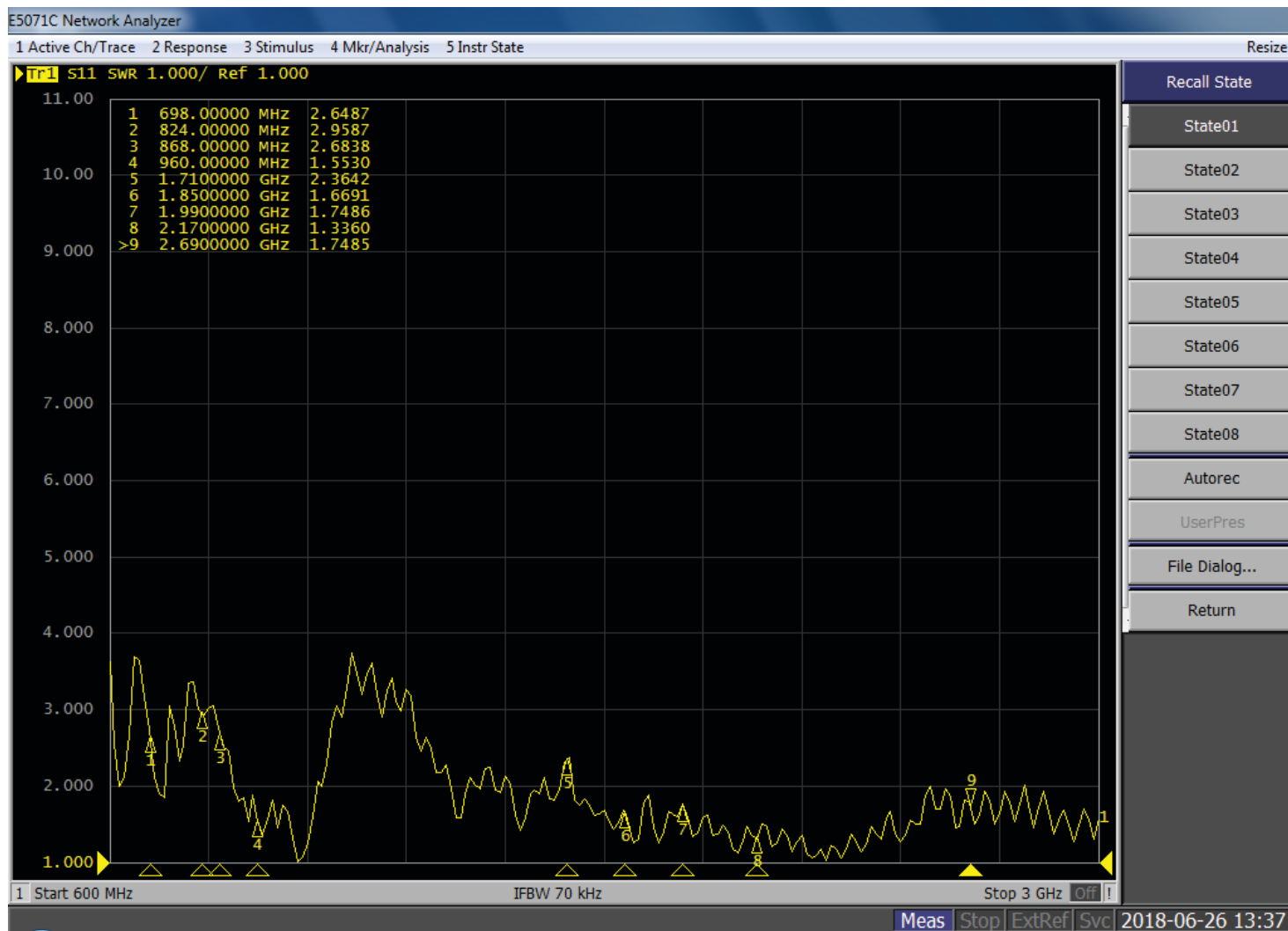
Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

MSL - N/A

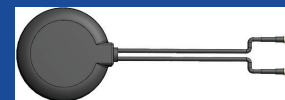
## Product Image



## VSWR Characteristics



# 2x2 4G/LTE MIMO Antenna



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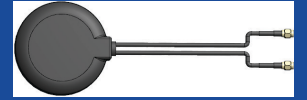
## Gain and Efficiency

Frequency (MHz)	Efficiency	Gain (dBi)
700	0.62	2.23
824	0.68	3.0
868	0.62	1.12
960	0.66	1.0
1710	0.61	0.9
1850	0.65	0.3
1990	0.63	0.73
2170	0.64	1.96
2690	0.65	1.94

## Radiation Patterns



# 2x2 4G/LTE MIMO Antenna



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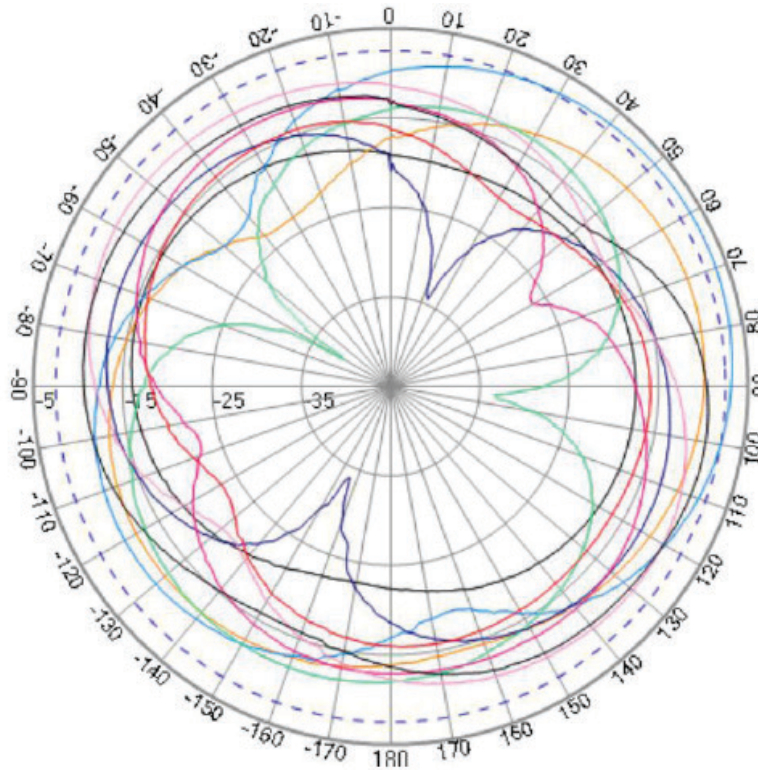


Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

MSL - N/A

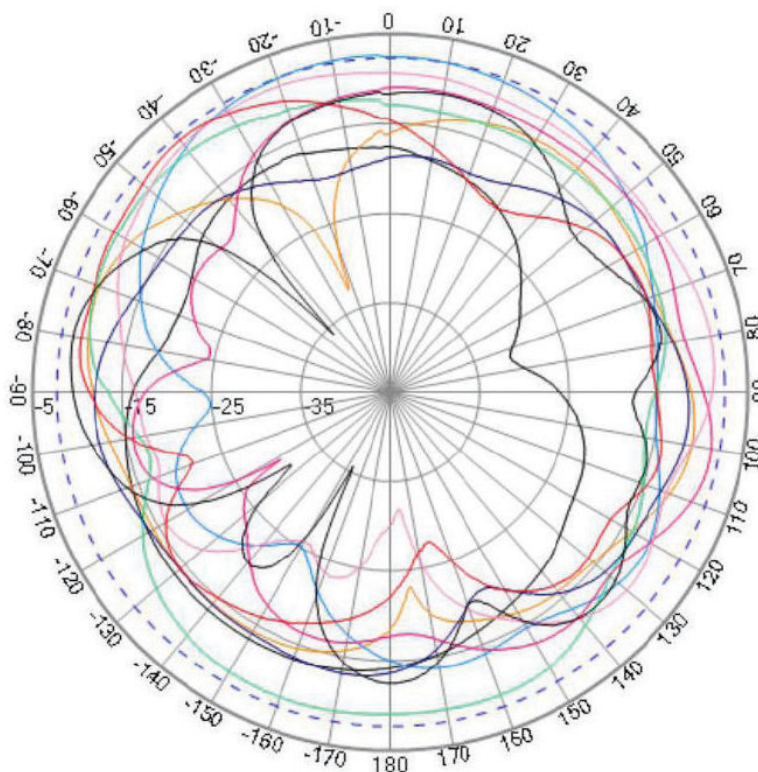
## Radiation Patterns

2D Radiation Patterns  
LTE Antenna MAIN



XY PLANE

- Freq: 700
- Freq: 824
- Freq: 868
- Freq: 960
- Freq: 1710
- Freq: 1850
- Freq: 1990
- Freq: 2170
- Freq: 2690



XZ PLANE

- Freq: 700
- Freq: 824
- Freq: 868
- Freq: 960
- Freq: 1710
- Freq: 1850
- Freq: 1990
- Freq: 2170
- Freq: 2690



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REVISED: 08.15.2018

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# 2x2 4G/LTE MIMO Antenna



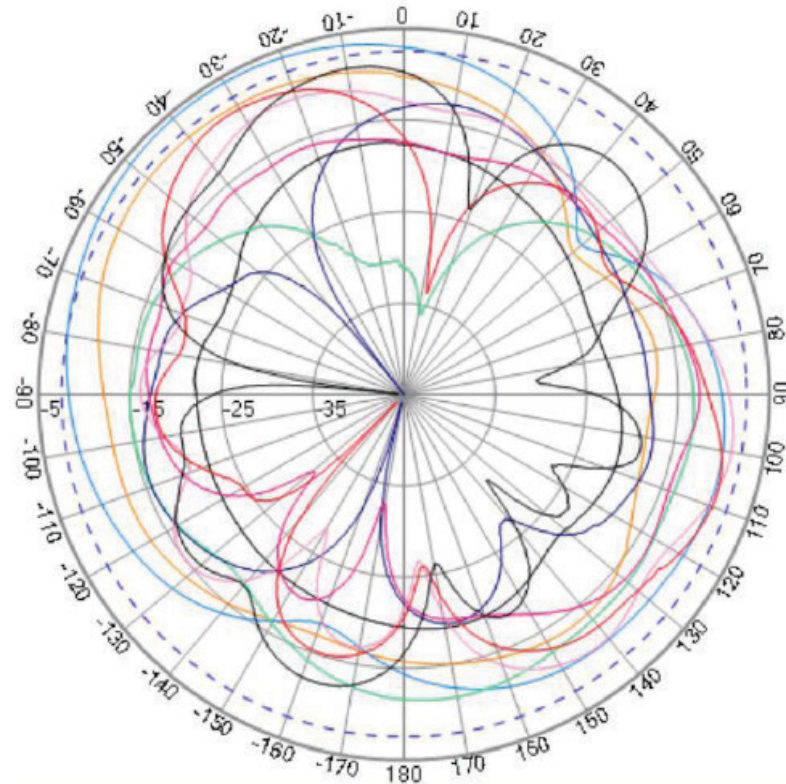
AEACBA081014-M698



Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

MSL - N/A

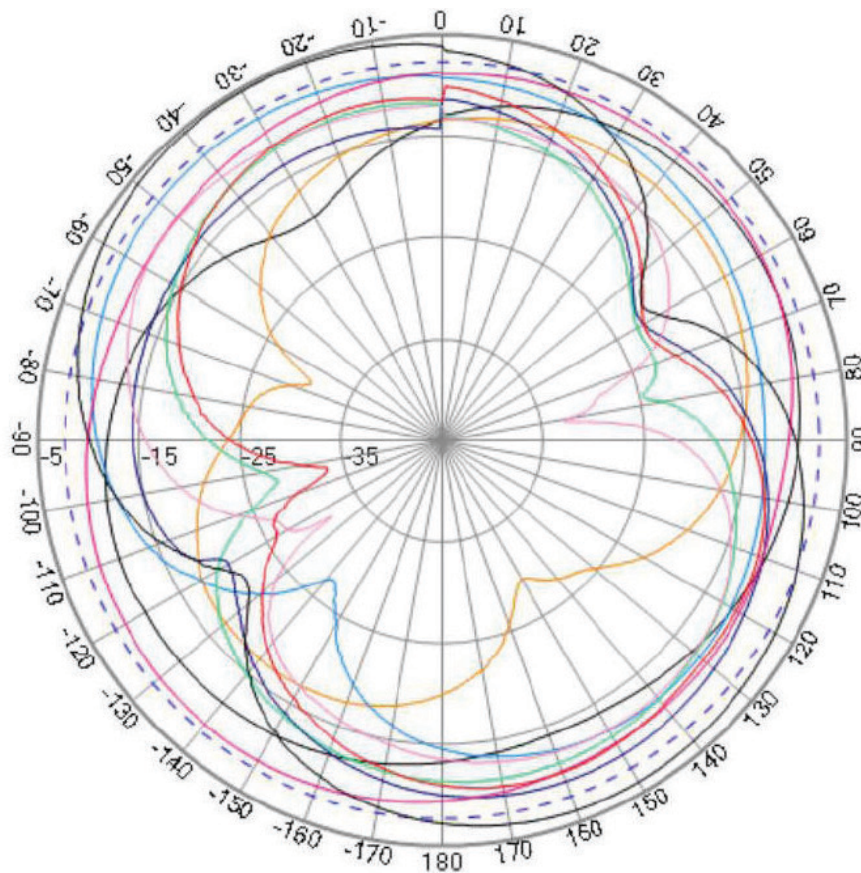
## Radiation Patterns



YZ PLANE

- Freq: 700
- Freq: 824
- Freq: 868
- Freq: 960
- Freq: 1710
- Freq: 1850
- Freq: 1990
- Freq: 2170
- Freq: 2690

## LTE Antenna AUX



XY PLANE

- Freq: 700
- Freq: 824
- Freq: 868
- Freq: 960
- Freq: 1710
- Freq: 1850
- Freq: 1990
- Freq: 2170
- Freq: 2690



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# 2x2 4G/LTE MIMO Antenna



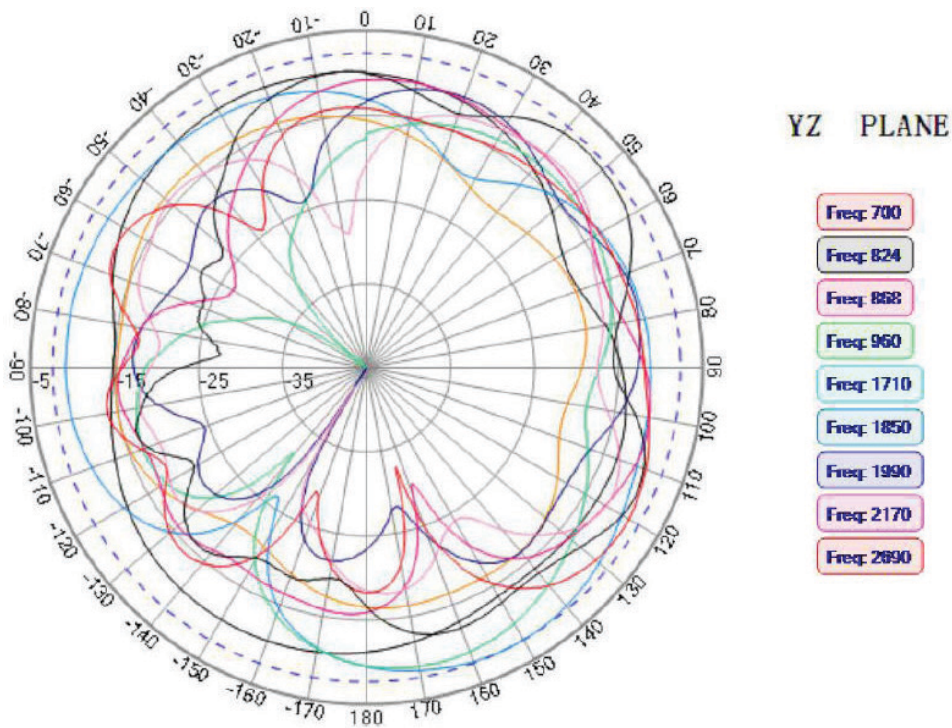
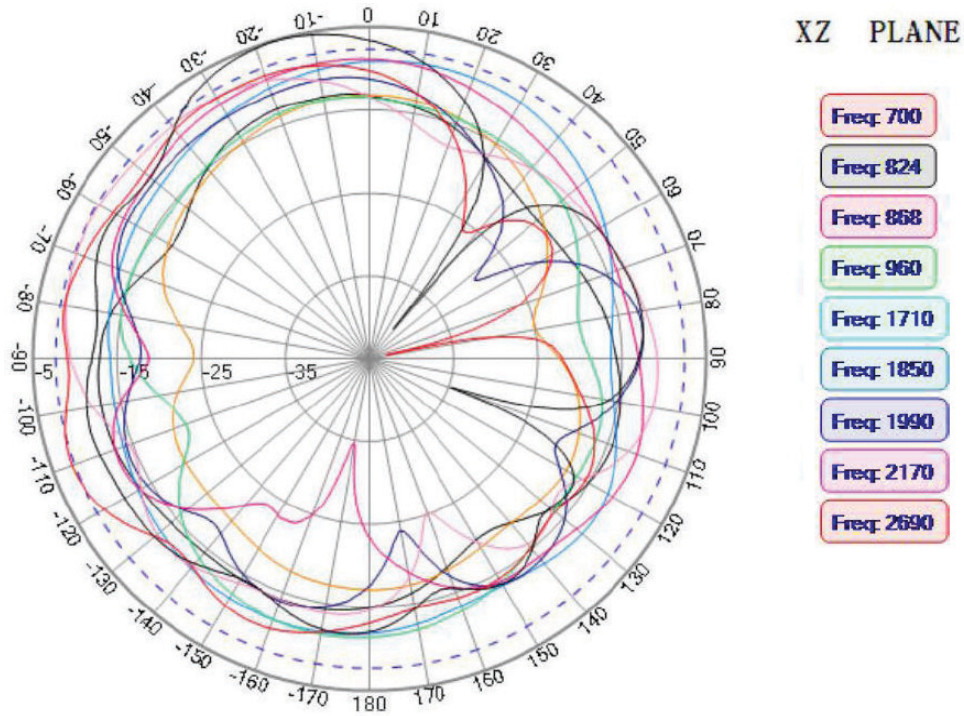
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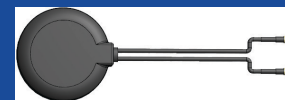
Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

MSL - N/A

## Radiation Patterns







AEACBA081014-M698

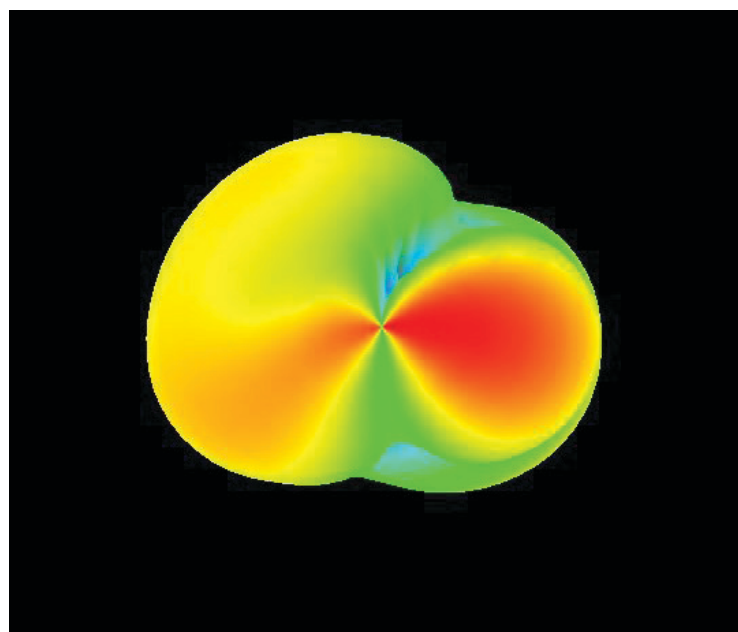


Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

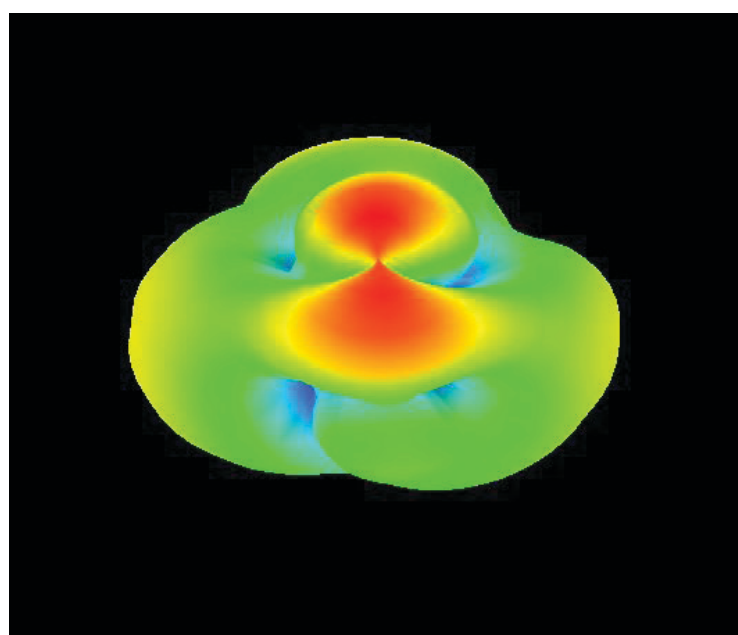
MSL - N/A

3D Radiation Patterns

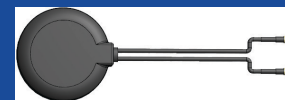
700 MHz



824 MHz







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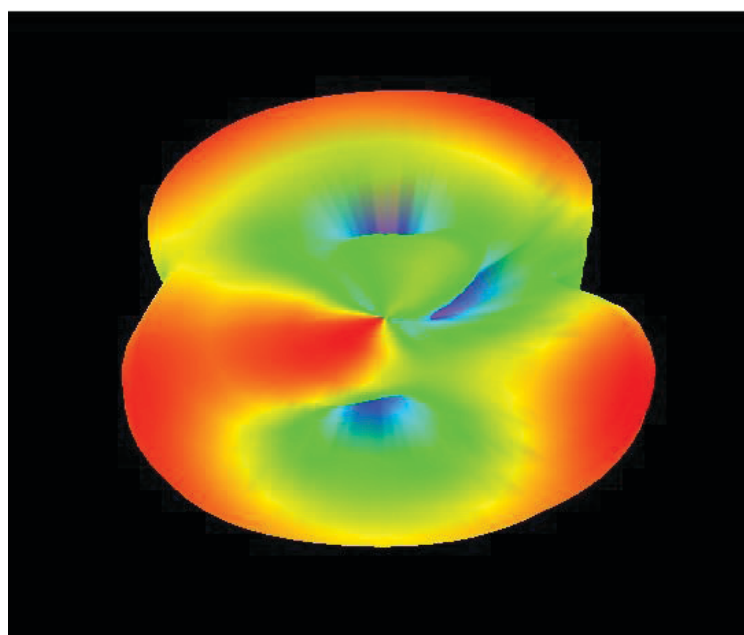
Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

MSL - N/A

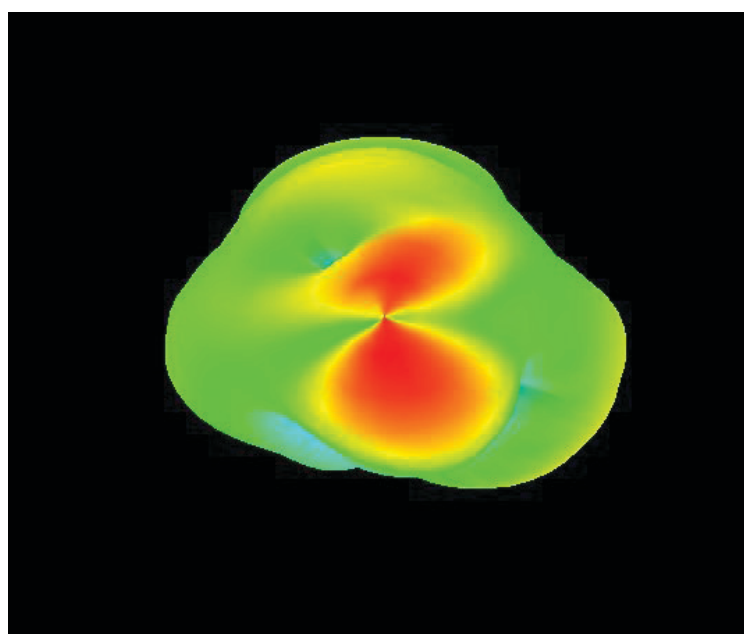
**3D Radiation Patterns**

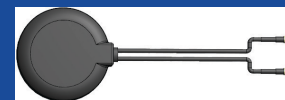
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868 MHz



960 MHz





AEACBA081014-M698



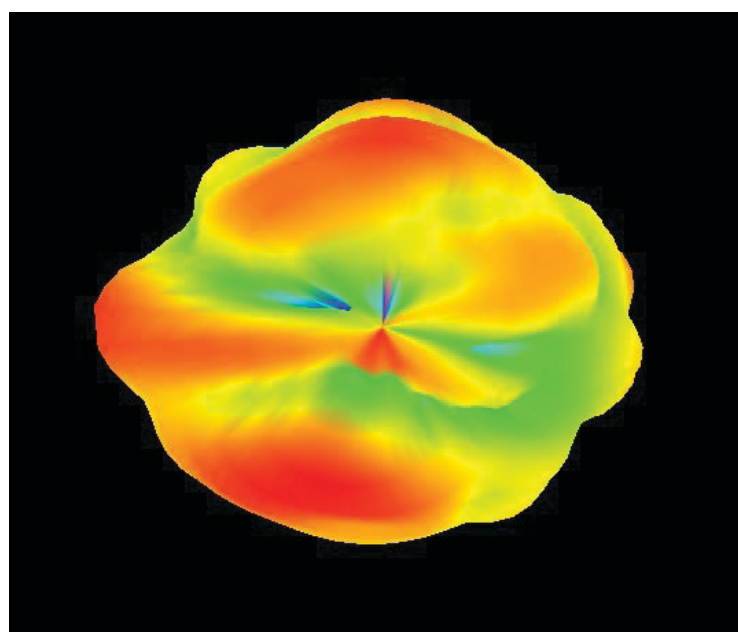
Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

MSL - N/A

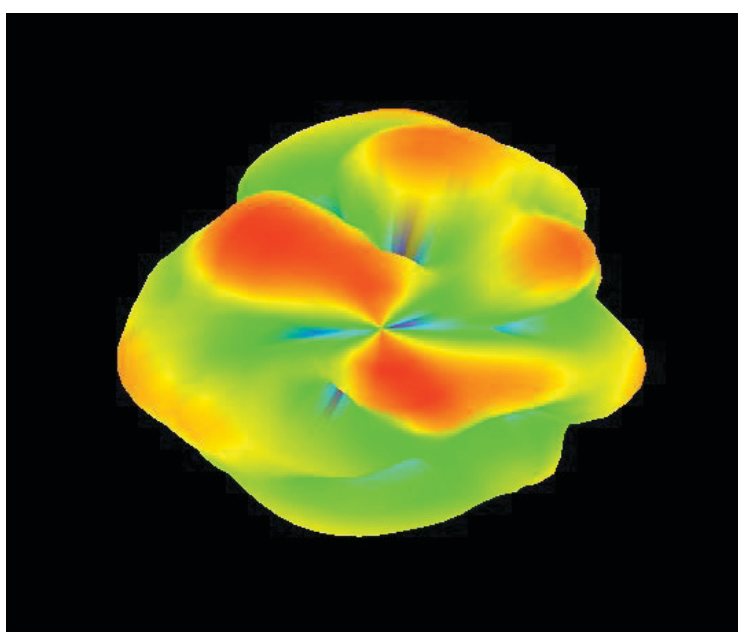
**3D Radiation Patterns**

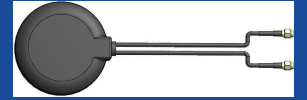
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1710 MHz



1850 MHz





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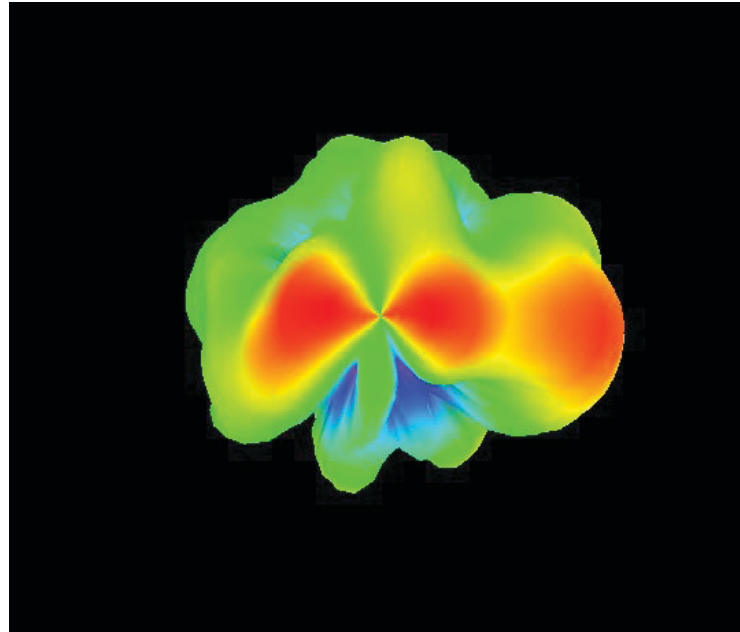


Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

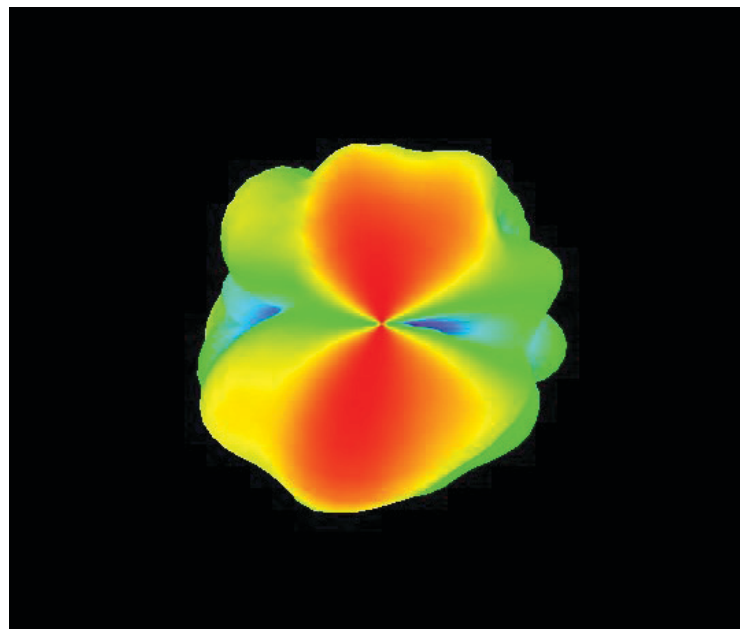
MSL - N/A

3D Radiation Patterns

1990 MHz

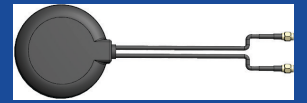


2170 MHz





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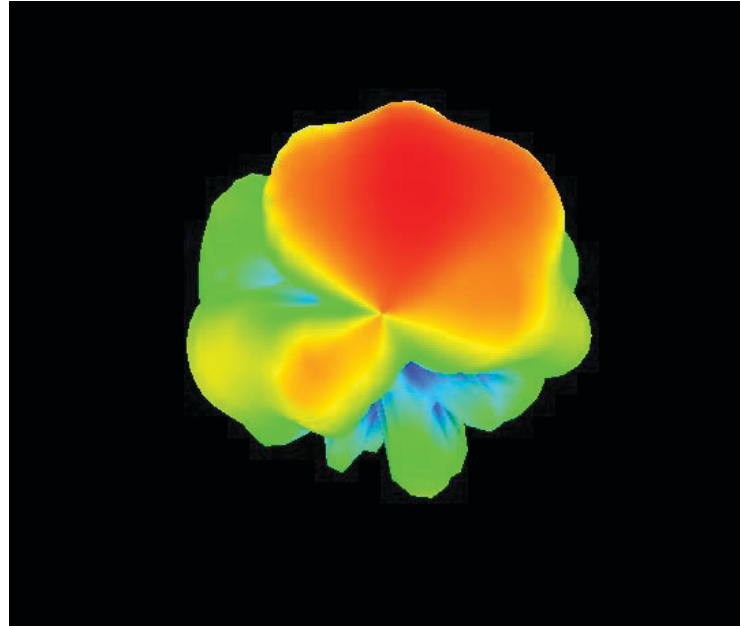
Ø81.6 x 14.5 mm  
RoHS/RoHS II Compliant

MSL - N/A

### 3D Radiation Patterns

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2690 MHz



### Packaging

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Each 70 x 32 x 15.5 mm size carton includes 50 pcs antenna, weighs 7.5 kg.