



4G/LTE Flexible Printed Antenna



Part Number: L-2FA1

59 x 50 x 0.4 mm
 RoHS/RoHS II Compliant

Features

- Operates in 698-2700 MHz
- Linear polarization
- Low VSWR
- FPC flexible or PCB material (Optional)
- Omni-directional pattern
- Cable Solder direct

Applications

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

Electrical Specifications

Parameters	Min.	Typ.	Max.	Units	Notes
Frequency Range		698~960/1710~2690		MHz	
VSWR	1.1		1.7		
Polarization Model	Linear				
Impedance		50		Ω	
Gain		4.5		dBi	

Mechanical Characteristics

Parameters	Description
Connector	NONE
Cable Type	RF1.13
Mounting	Embedded
FPC Dimensions	68 x 58 x 0.4 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



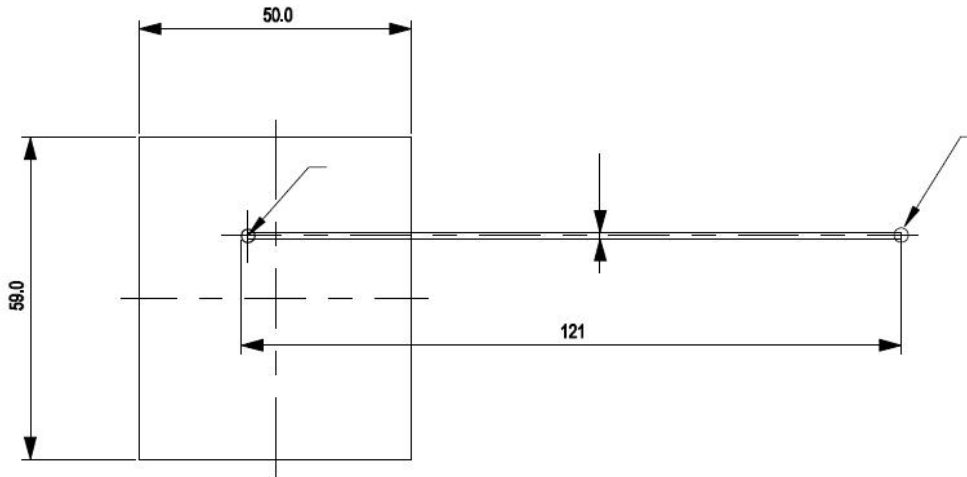
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Dimensions



Product Image





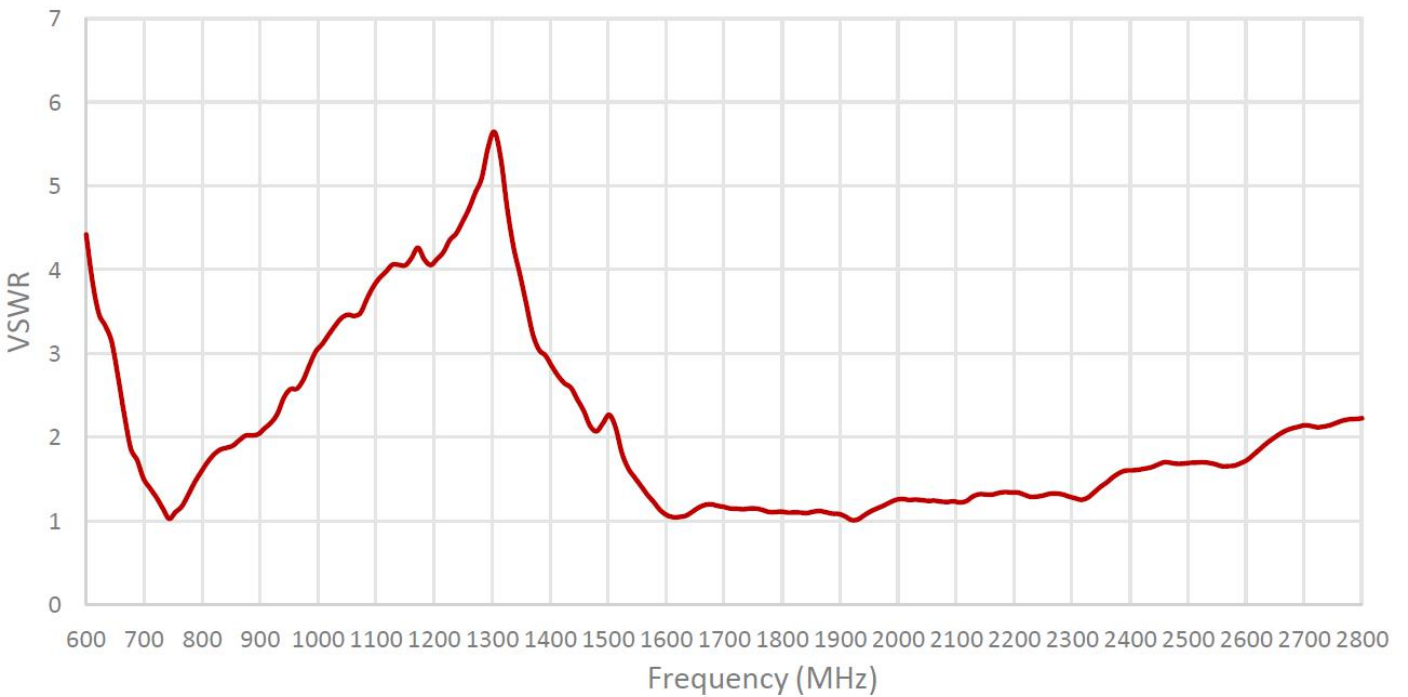
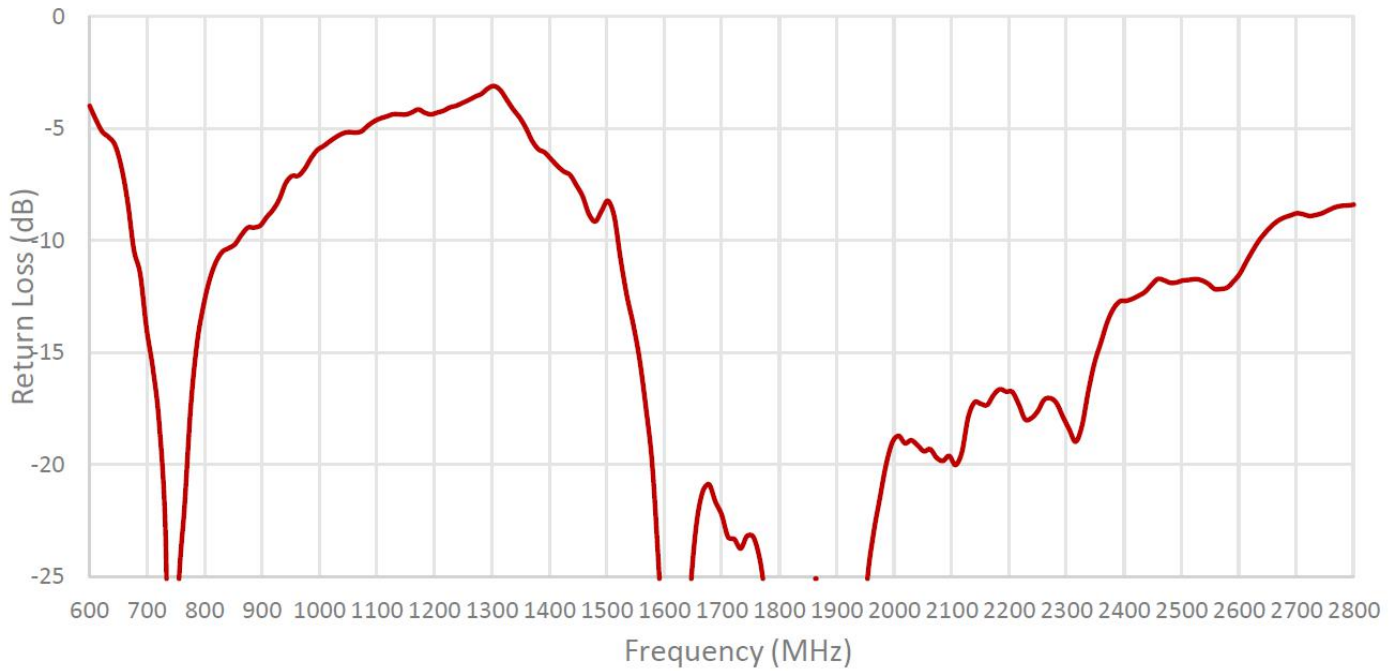
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Antenna parameters



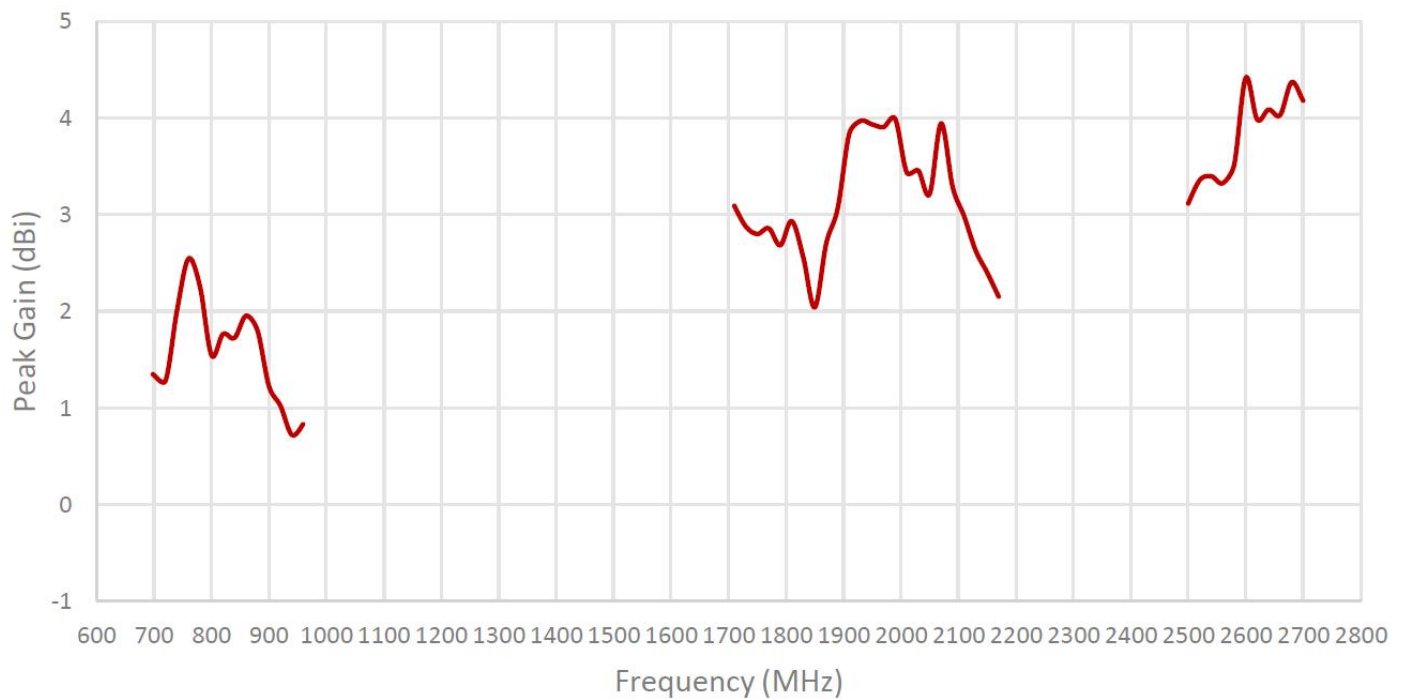
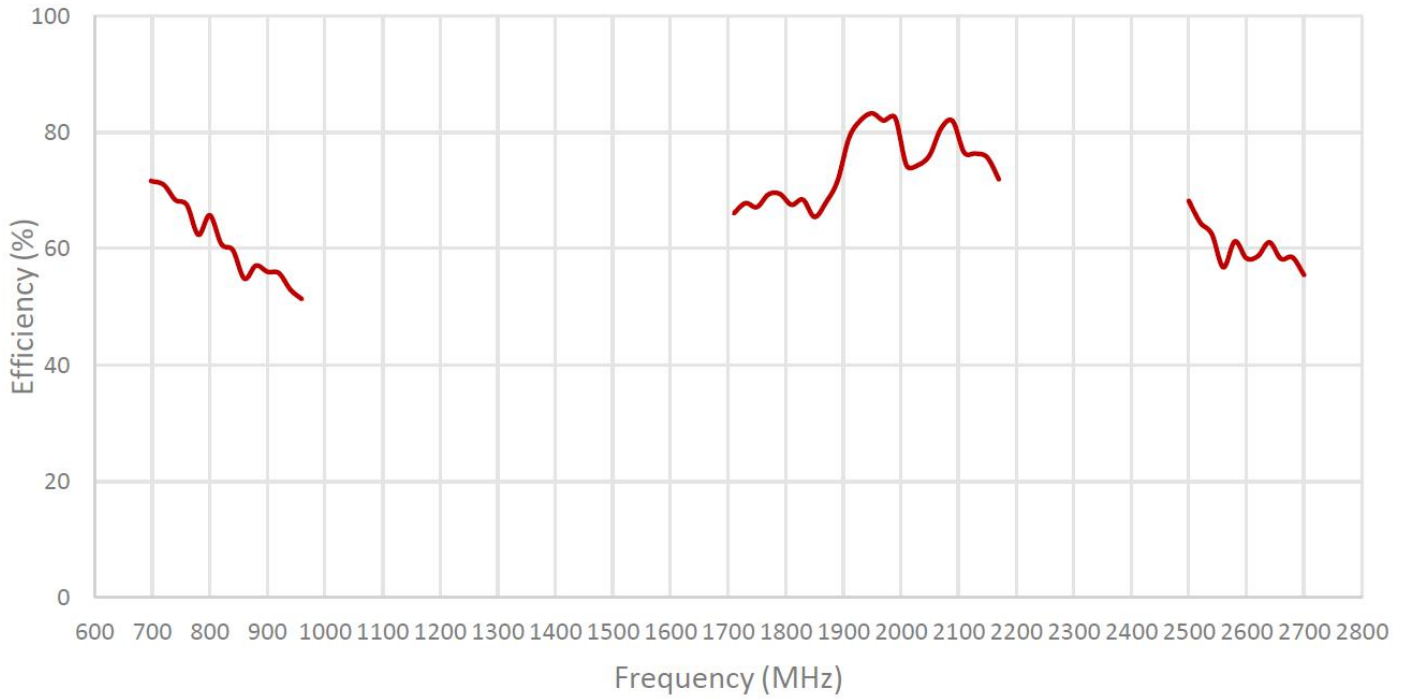


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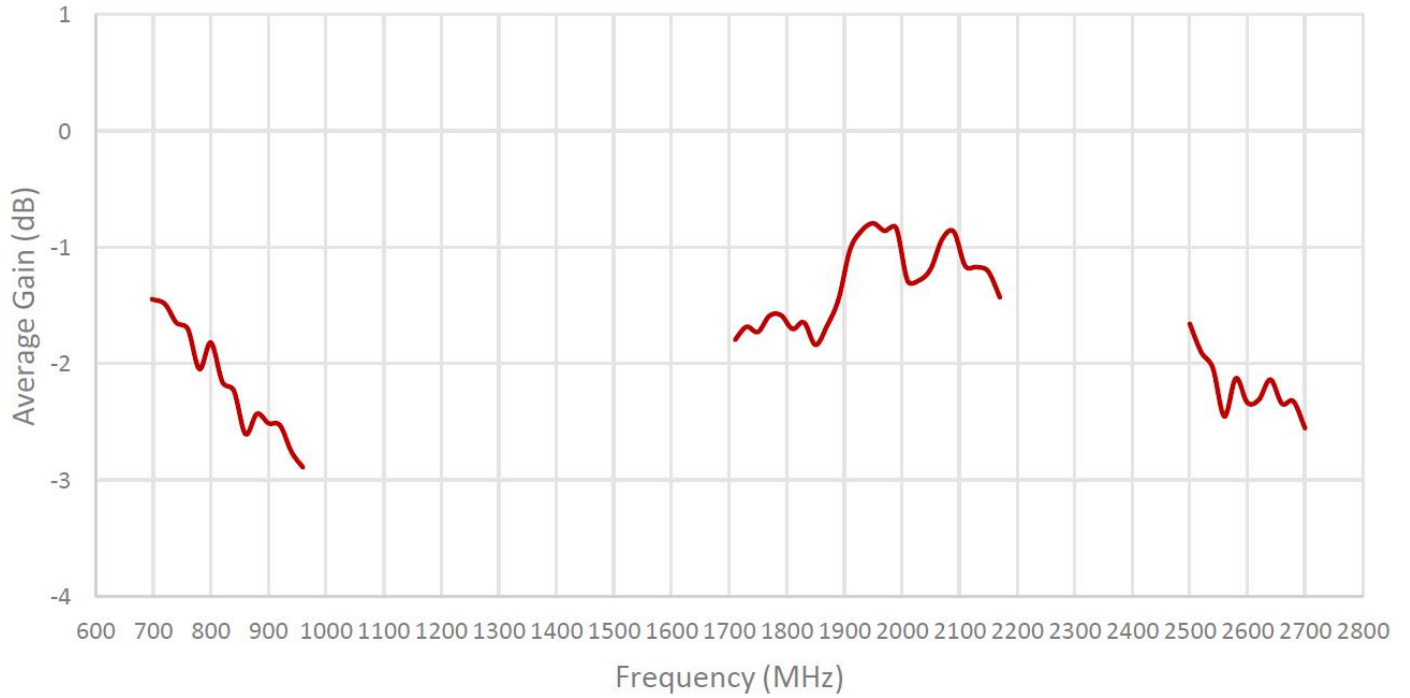


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Frequency (MHz)	Efficiency	Gain (dBi)
698	0.70	1.3
824	0.61	1.6
868	0.57	1
960	0.56	1.9
1710	0.68	3.1
1850	0.67	2.0
1990	0.81	3.9
2170	0.72	2.2
2690	0.55	4.4



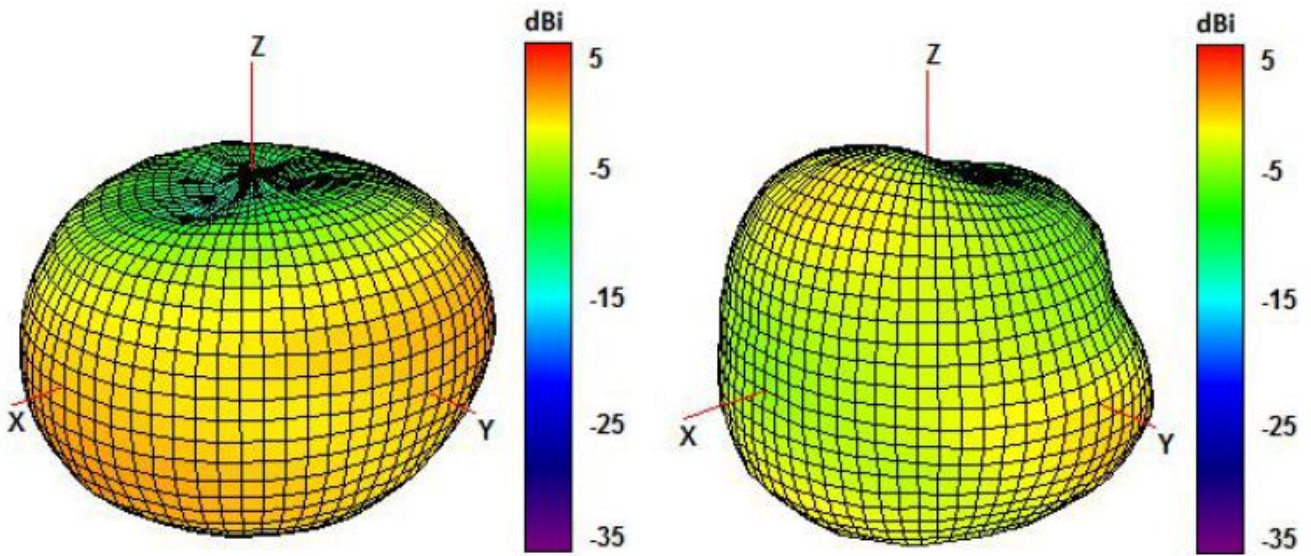
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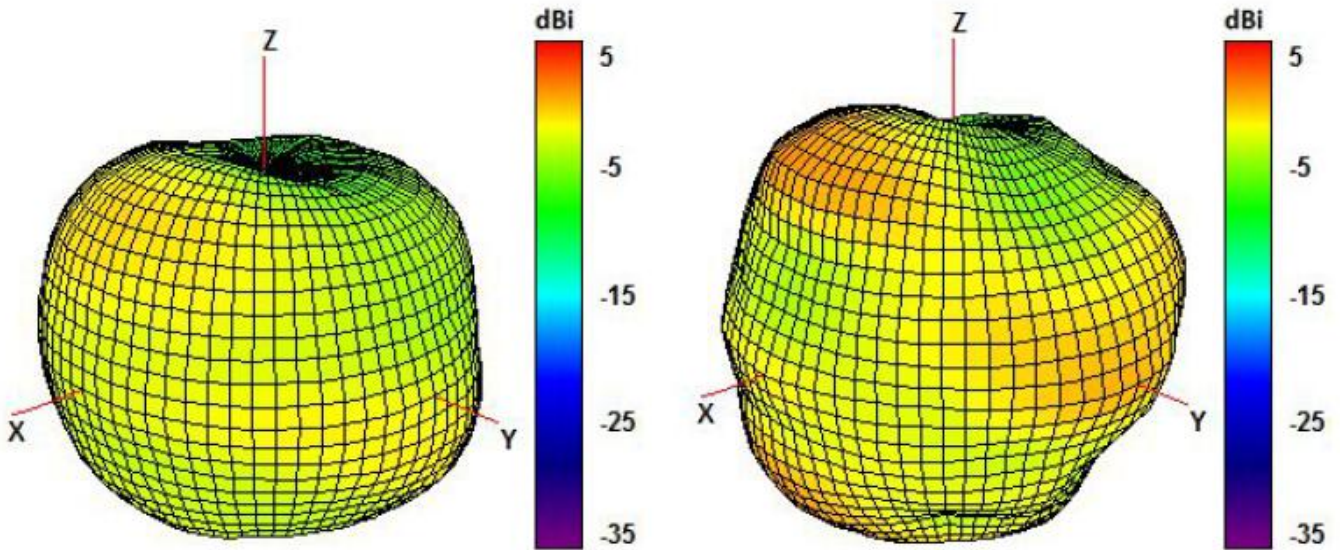
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3D – Pattern



750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

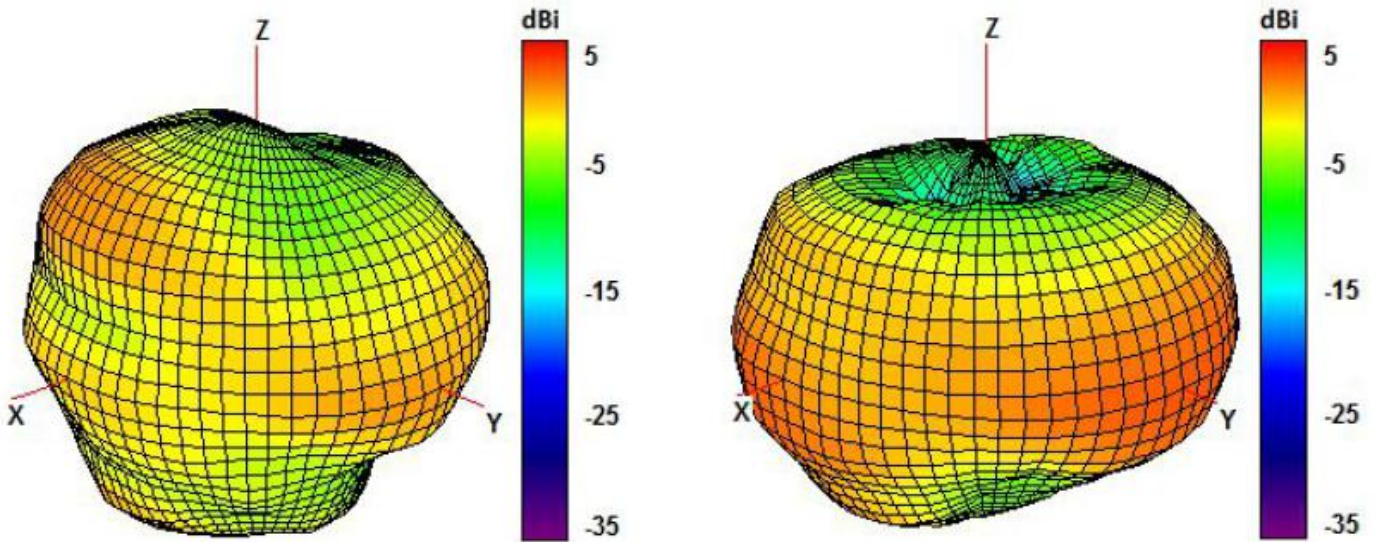


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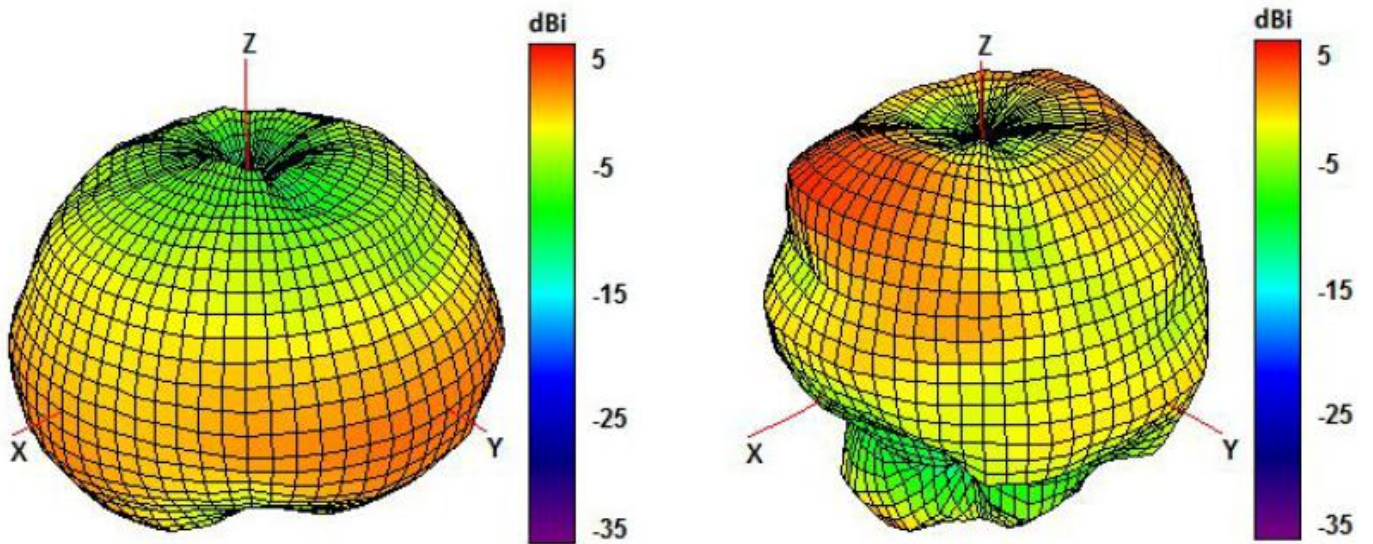


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1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern



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Packaging

TBD

Caution:

- (1) Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- (2) Do not expose the component to open flame.
- (3) This specification applies to the functionality of the component as a single unit. Please ensure the component is thoroughly evaluated in the application circuit.