



Multiband 2G 3G 4G/LTE Antenna



118 mm

RoHS/RoHS II Compliant

Part Number: L-1RA7

Features

- Operates in 698-960/1710-2170 MHz and 2500-2700MHz
- Wide band antenna
- Vertical polarization
- High gain of 3 dBi
- VSWR 1.5
- Omni-directional pattern

Applications

- 4G/LTE radios
- Gateways
- Set-Top Boxes
- Security
- Transportation
- Smart agriculture

Electrical Characteristics

Parameters	Min.	Typ.	Max.	Units	Notes
Frequency Range	698		960	MHz	
	1710		2170	MHz	
	2500		2700	MHz	
VSWR	1.5		3		
Polarization Model	Vertical				
Impedance		50		Ω	
Gain		3		dBi	
Azimuth	Omni-directional				
Power Handling Capacity		50		W	
Lighting Protection	Direct Current earth				

Mechanical Characteristics

Parameters	Description	Note
Connector	SMA-RP	
Cable Type	RG-178	Inside the enclosure, 50 Ω
Radiator	Cuprum	
Enclosure	TPE	
Base	PBT + PC	
Radom Color	Black	

Environmental Characteristics

Parameters	Description	Note
RoHS Compliant	Yes	
MSL	N/A	
Operating temperature	-40 °C to +85 °C	

Product Image



MiotWireless

Miot Wireless Solutions Ltd
<http://www.mioticsolutions.com>
Info@mioticsolutions.com

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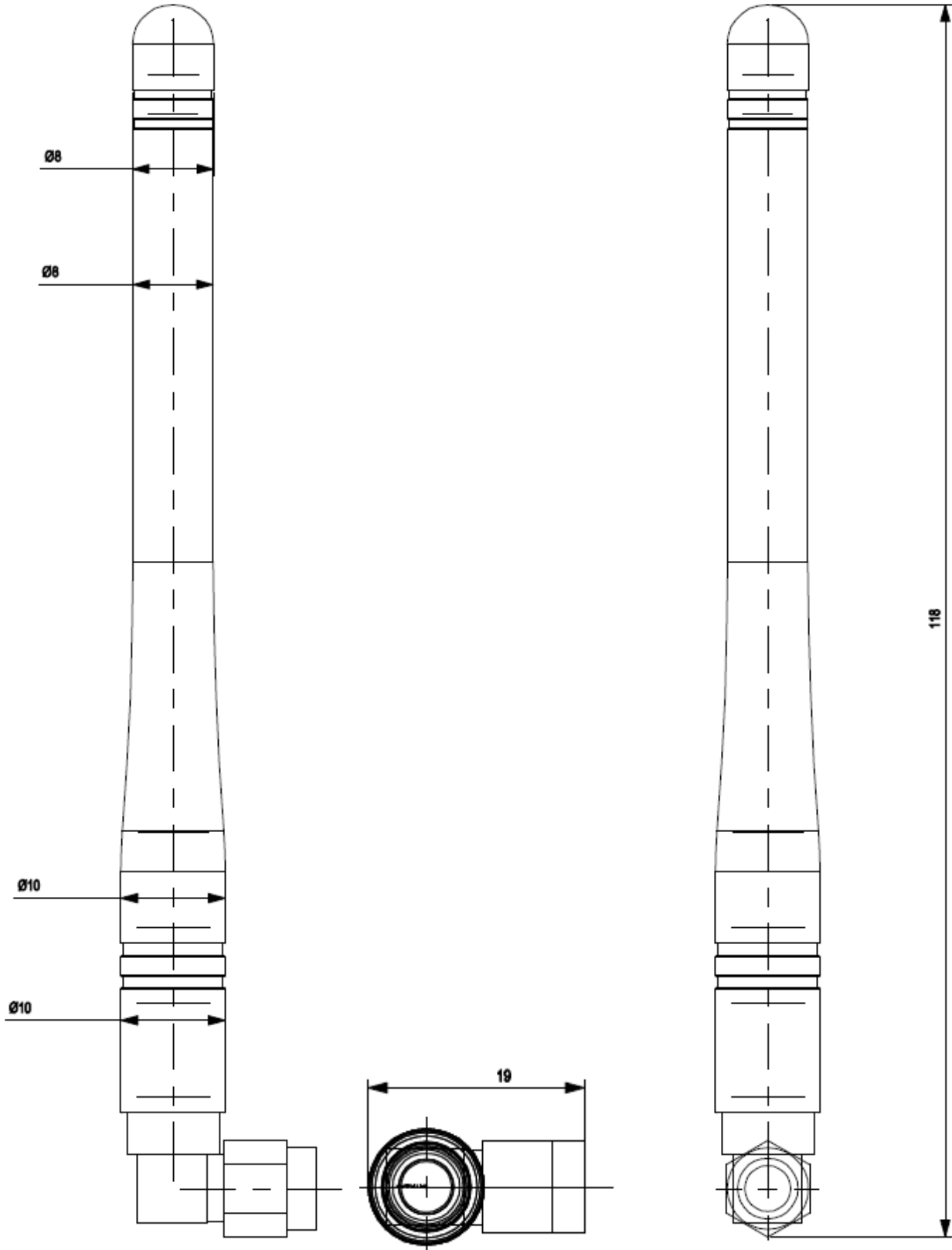


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Radiation Patterns

3D – Pattern



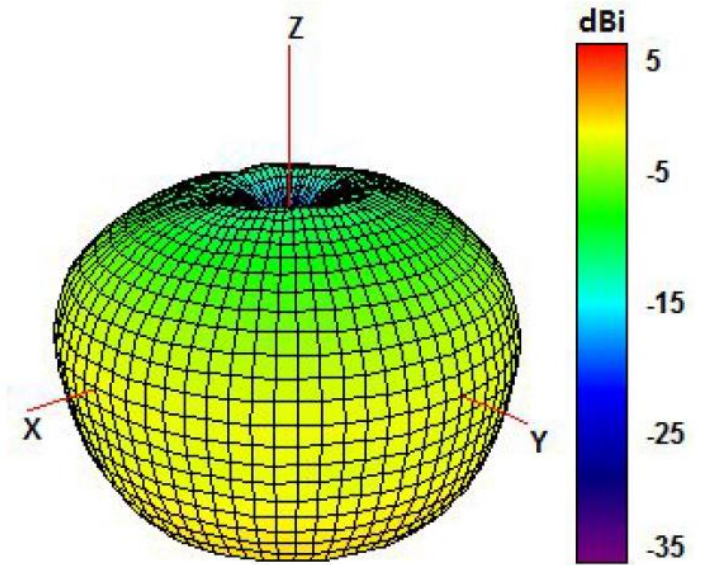
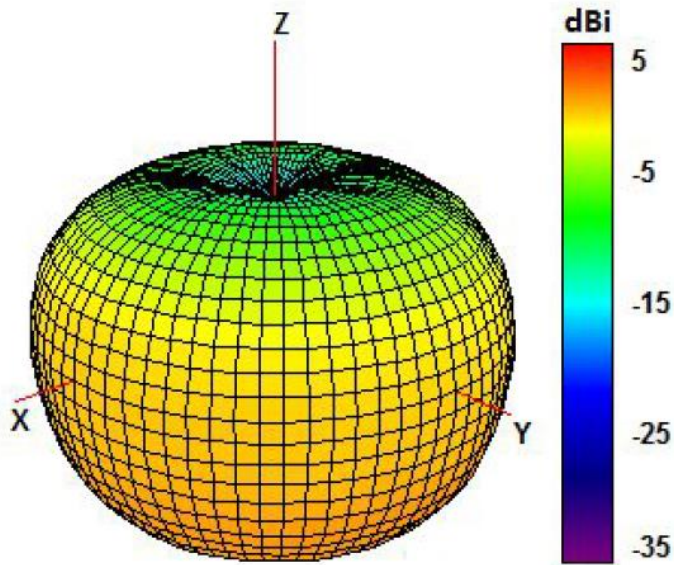


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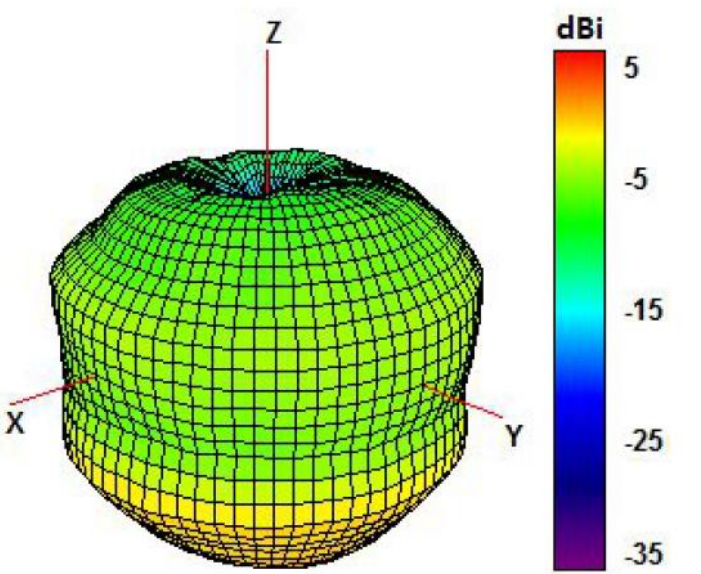
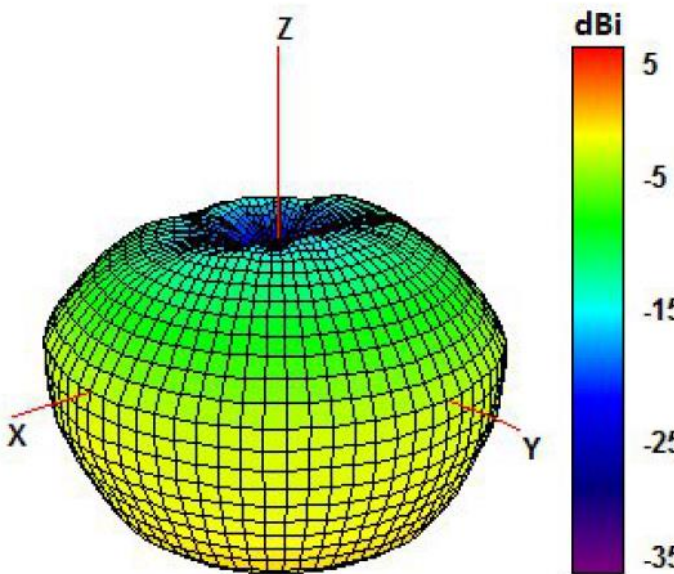


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750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

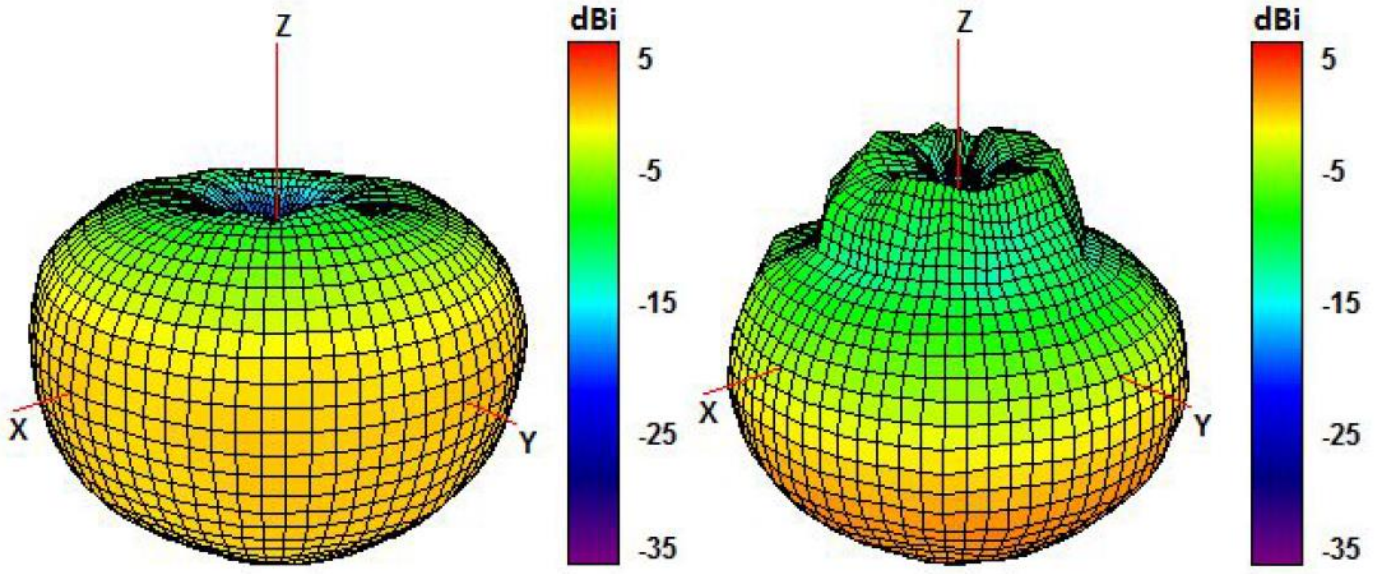


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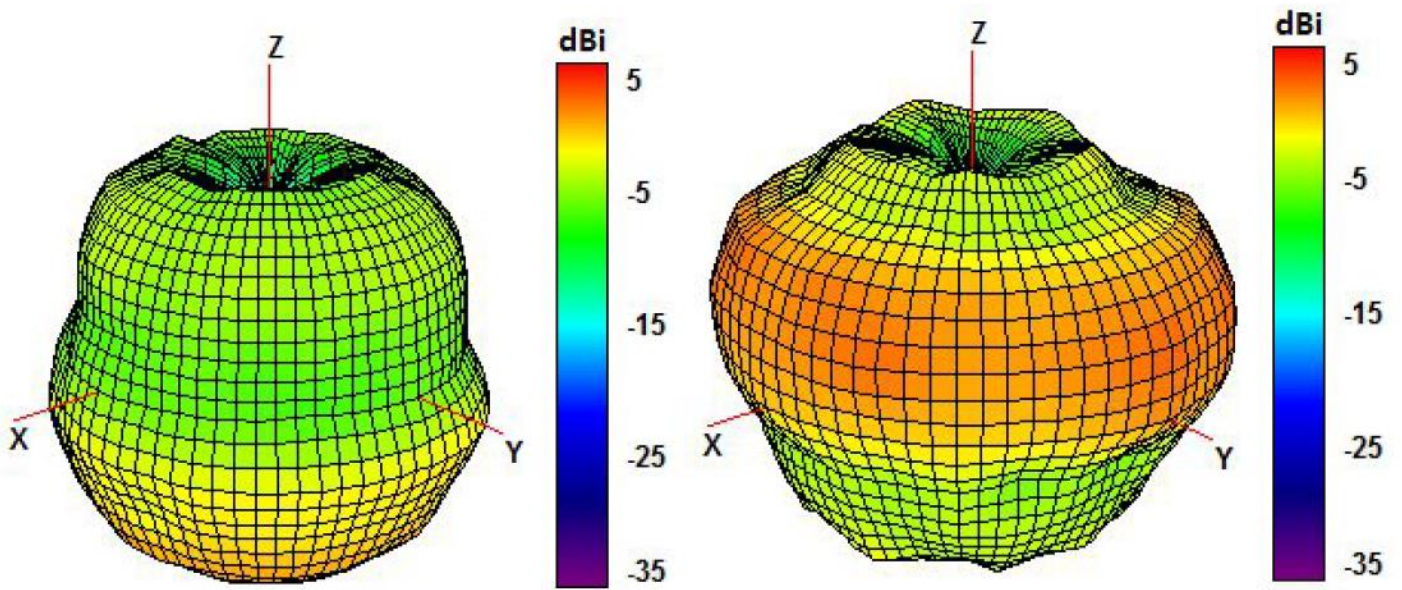


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1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern



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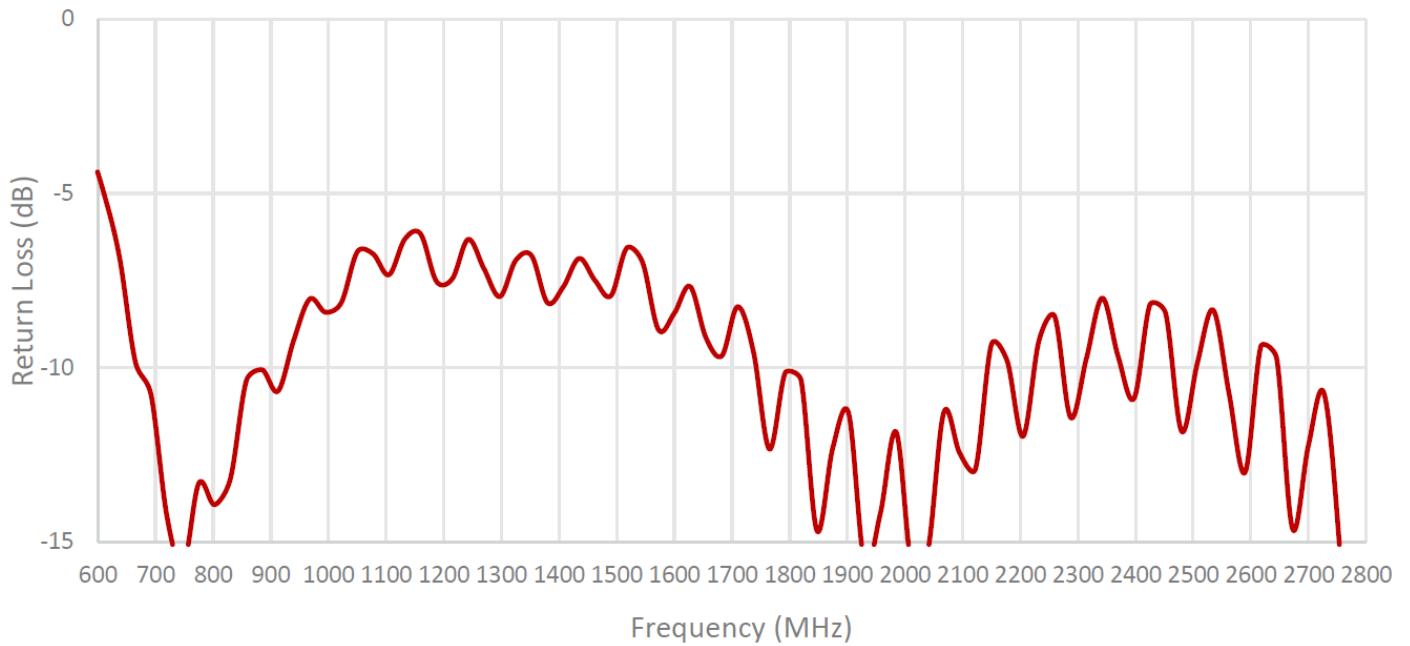


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Frequency (MHz)	Efficiency	Gain (dBi)
700	0.71	1
824	0.74	2.4
868	0.68	2.5
960	0.58	2.4
1710	0.45	1.3
1850	0.56	2.5
1990	0.58	2.2
2170	0.49	2.6
2690	0.50	2.7

Antenna parameters



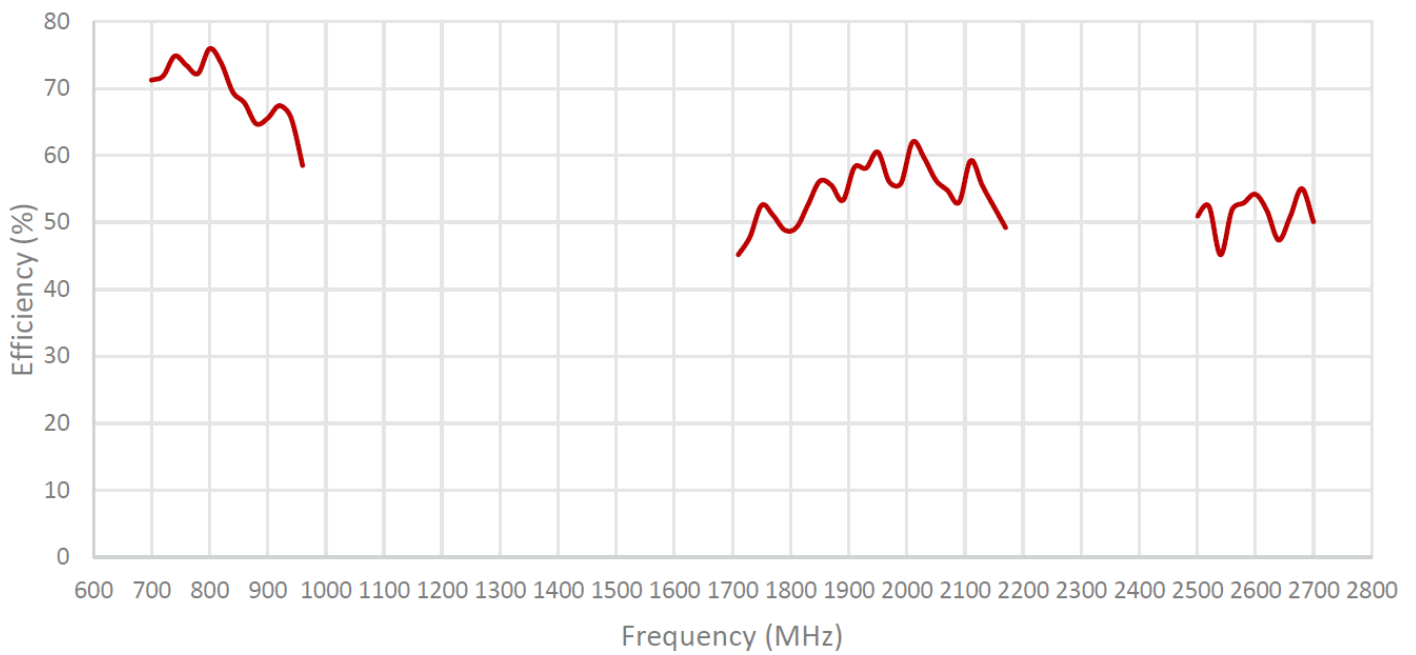
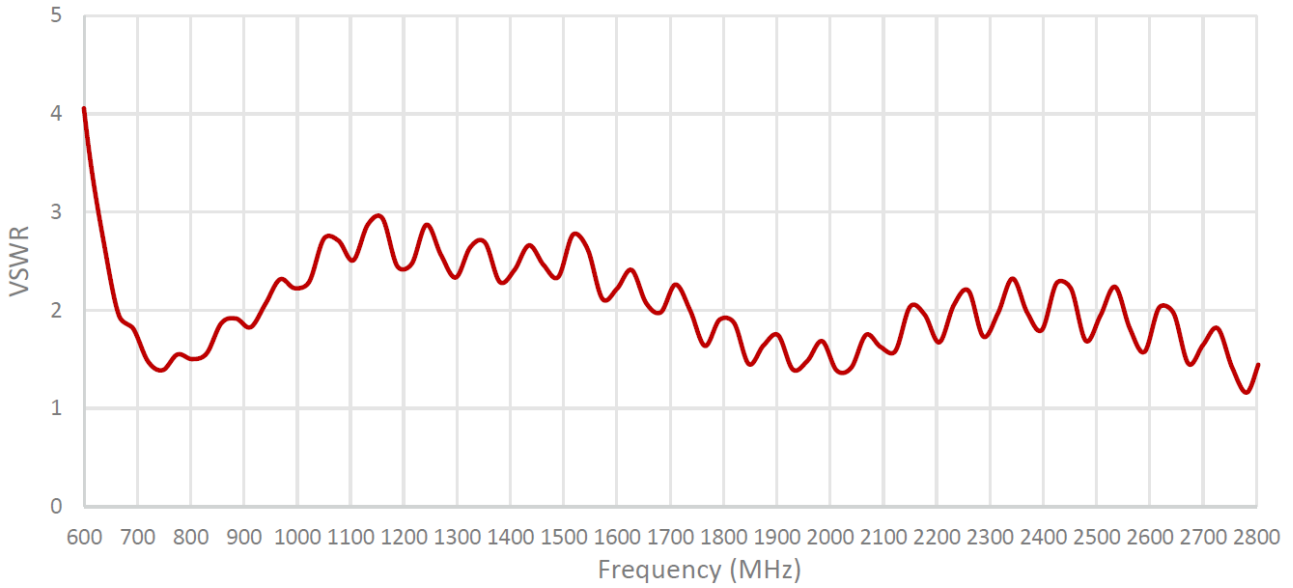


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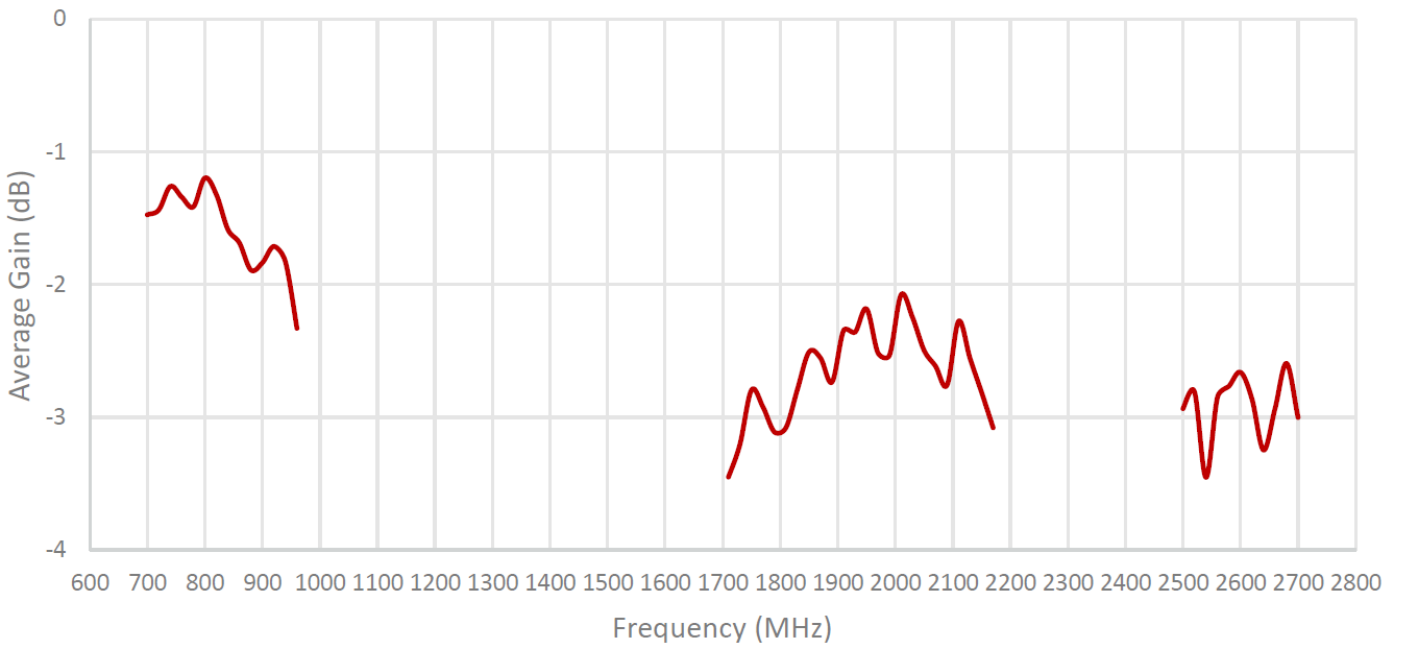
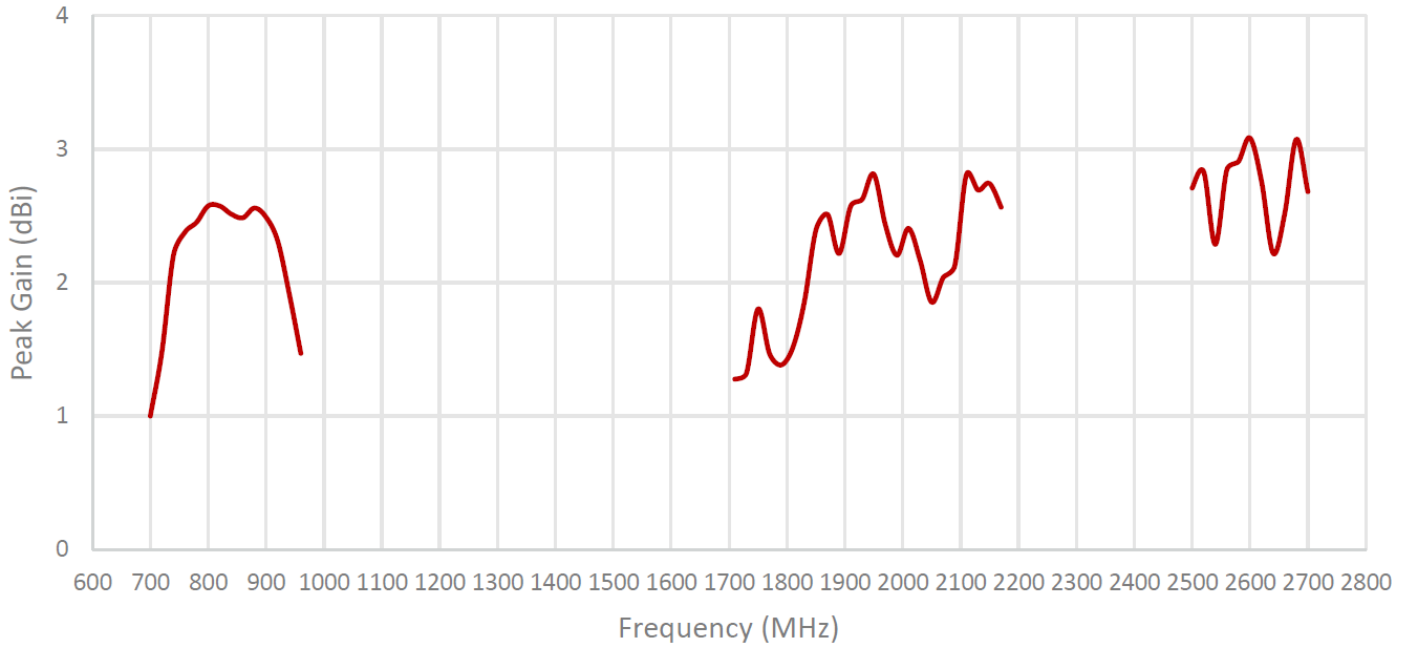


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Packaging

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.