



## Multiband 2G 3G 4G/LTE Antenna



Part Number: L-1RA3

221\*26\*13 mm  
 RoHS/RoHS II Compliant

### Features

- Operates in 600-6000MHz
- VSWR 3
- Vertical polarization
- High gain of 5 dBi

### Applications

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

### Electrical Characteristics

Parameters	Min.	Typ.	Max.	Units	Notes
Frequency Range	600		6000	MHz	
VSWR	1.5		3		
Polarization Model	Vertical				
Impedance		50		$\Omega$	
Gain			5	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 $\Omega$
Radiator	Cuprum	
Enclosure	TPE	
Base	PBT + PC	
Radome Color	Black	



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### Environmental Characteristics

Parameters	Description	Note
RoHS Compliant	Yes	
MSL	N/A	
Operating temperature	-20 °C to +85 °C	
Storage temperature	-20 °C to +85 °C	

### Product Image



### Dimensions

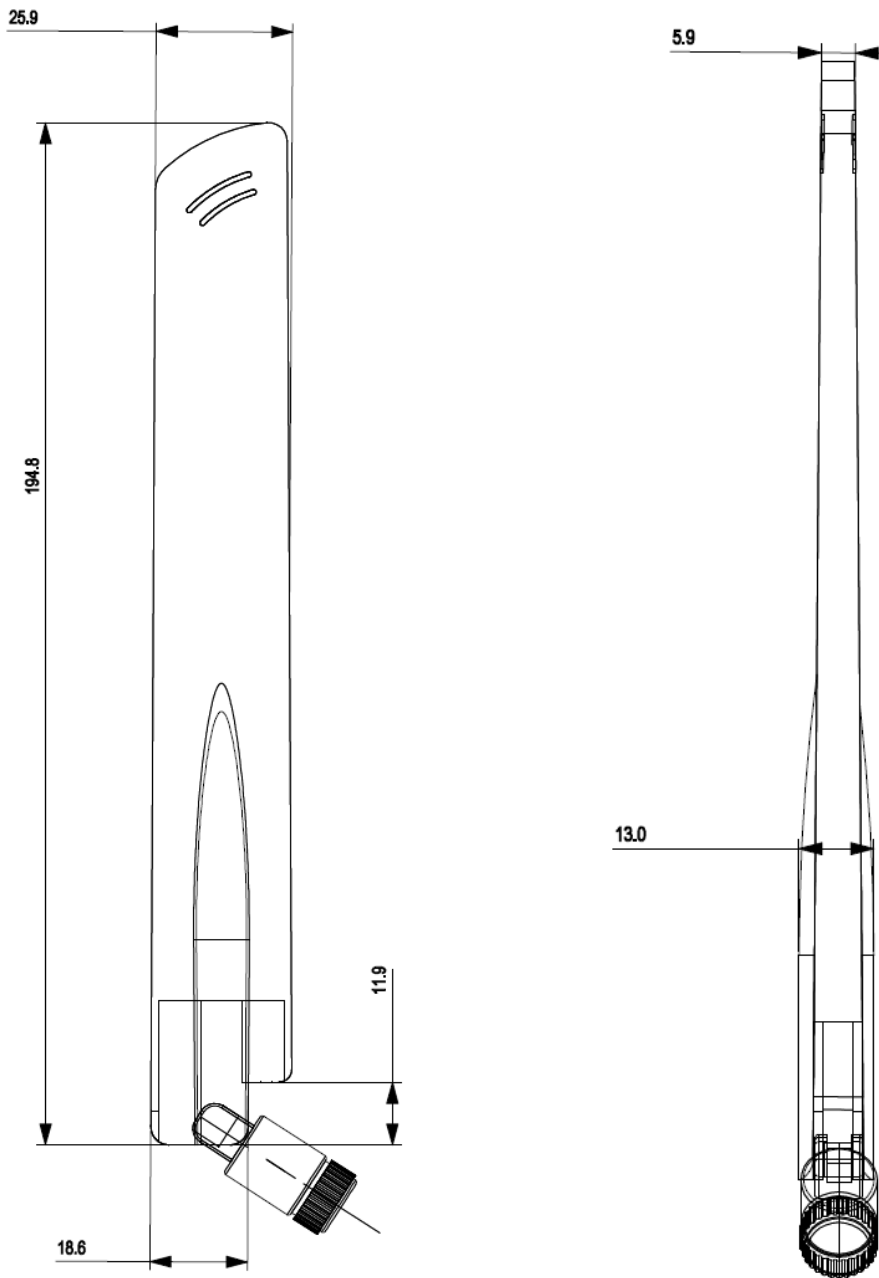


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## Radiation Pattern



MiotWireless

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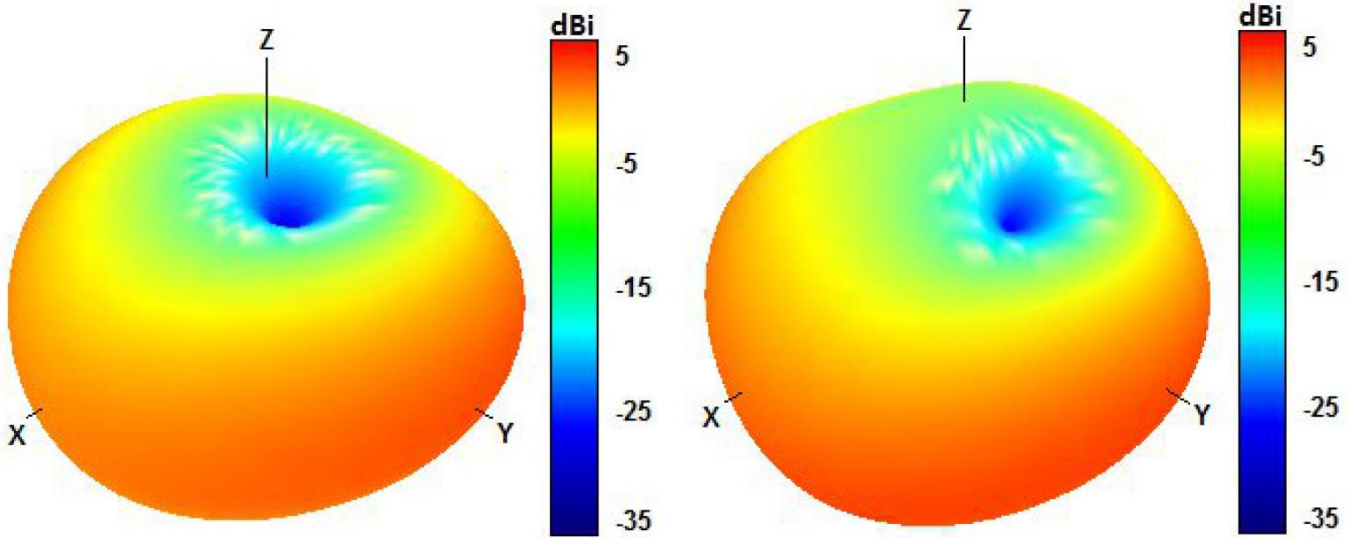


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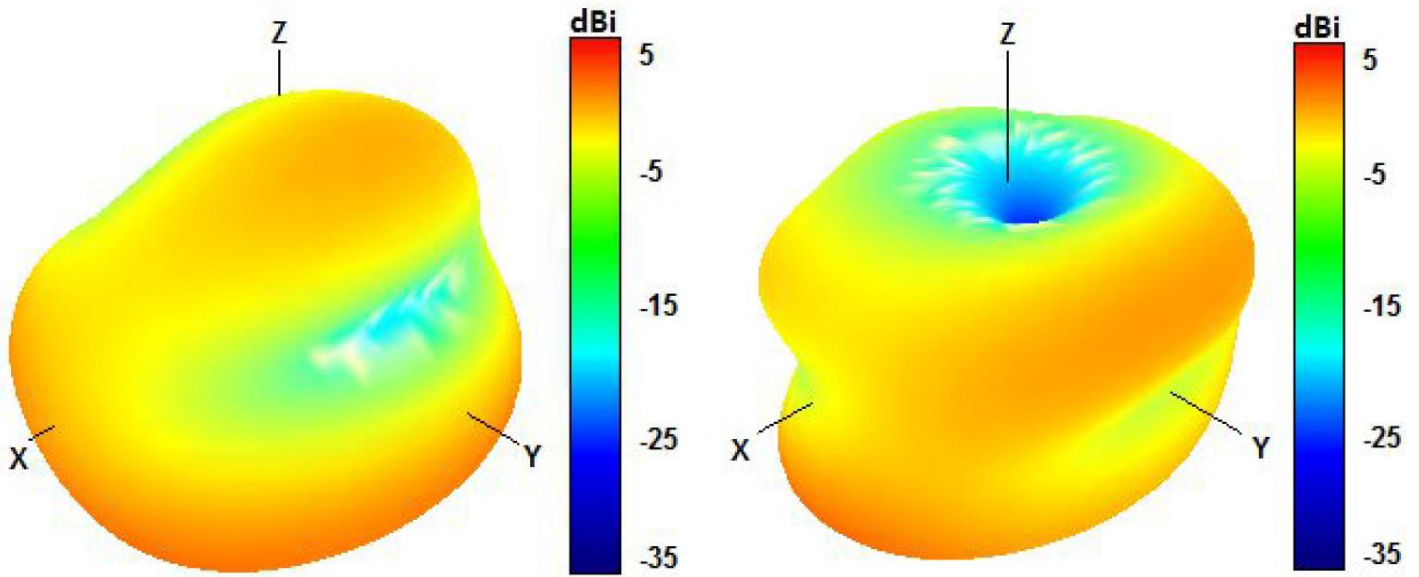


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750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

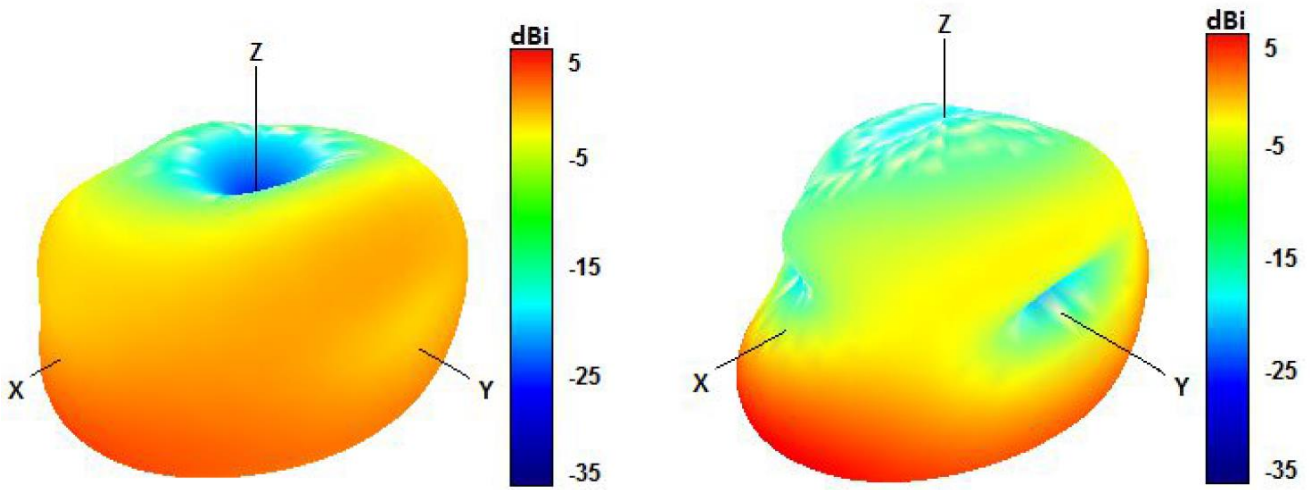


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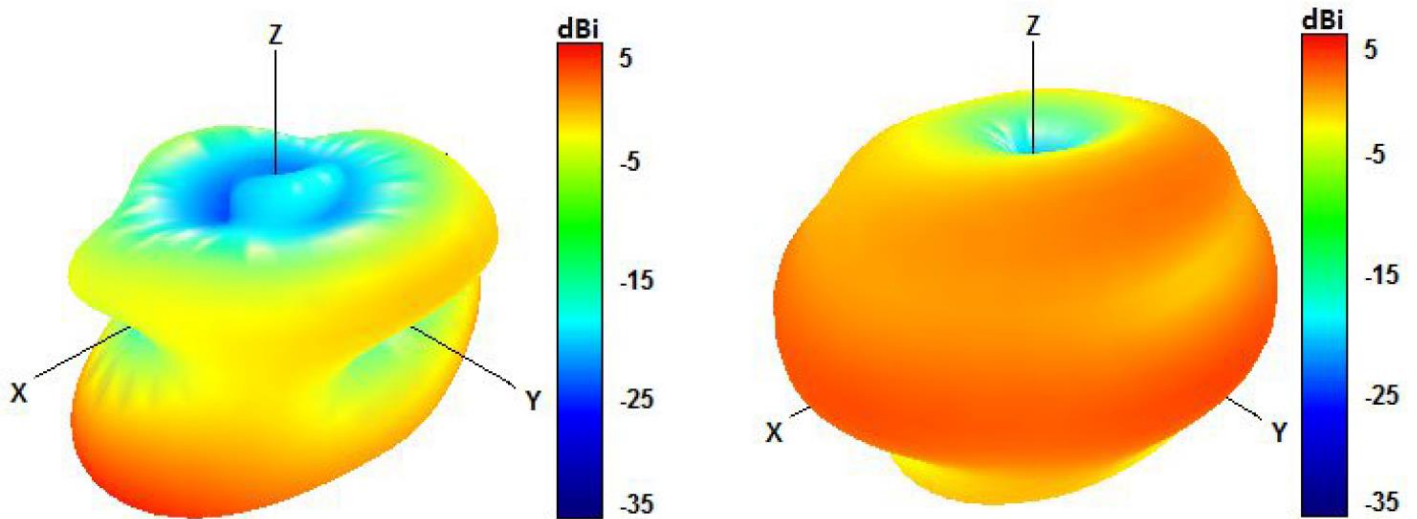


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1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

## Antenna Parameters

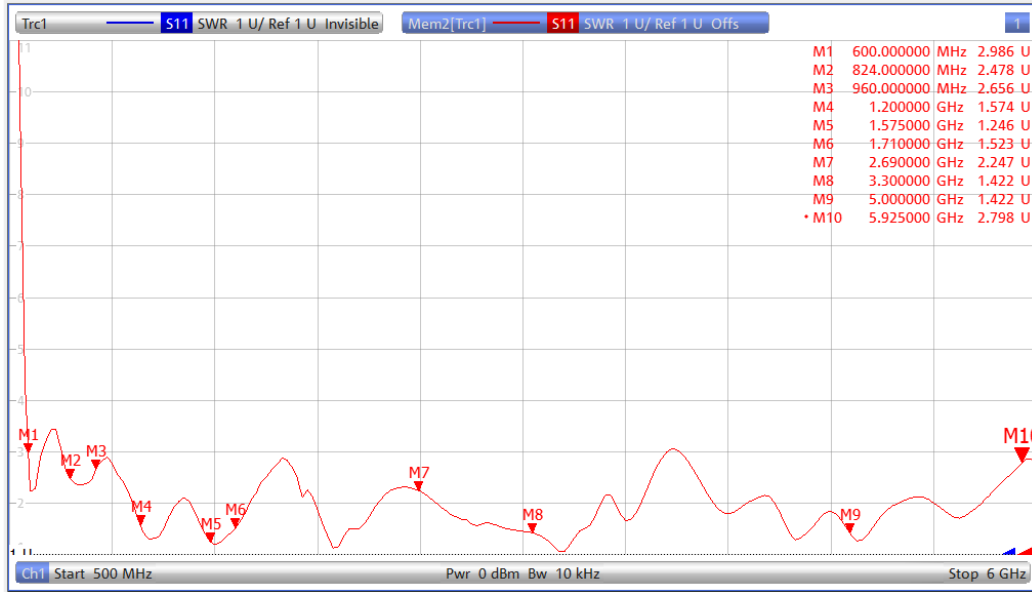


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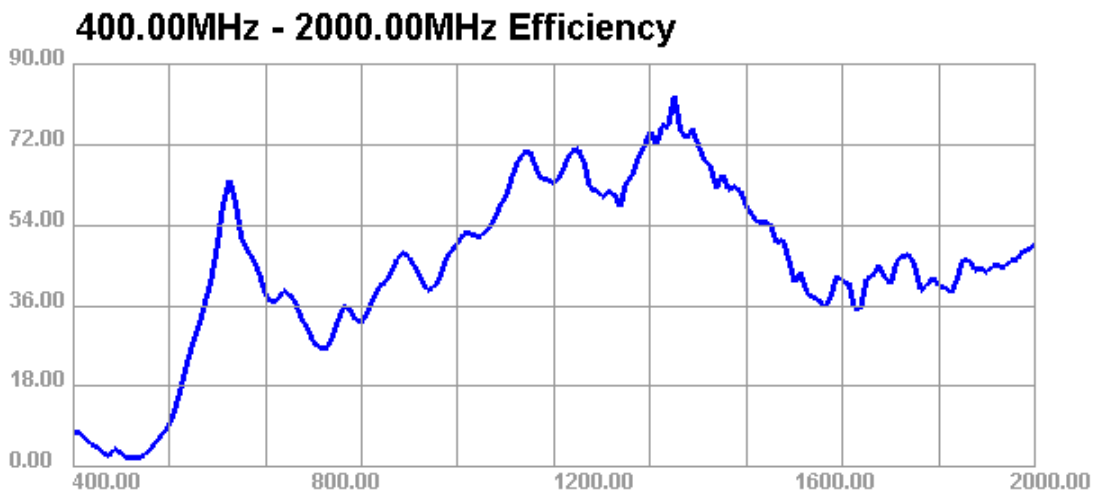


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Frequency(MHz)	600	824	960	1200	1575	1710	2690	3300	5000	5925
VSWR	2.98	2.47	2.65	1.57	1.24	1.52	2.24	1.42	1.42	2.78



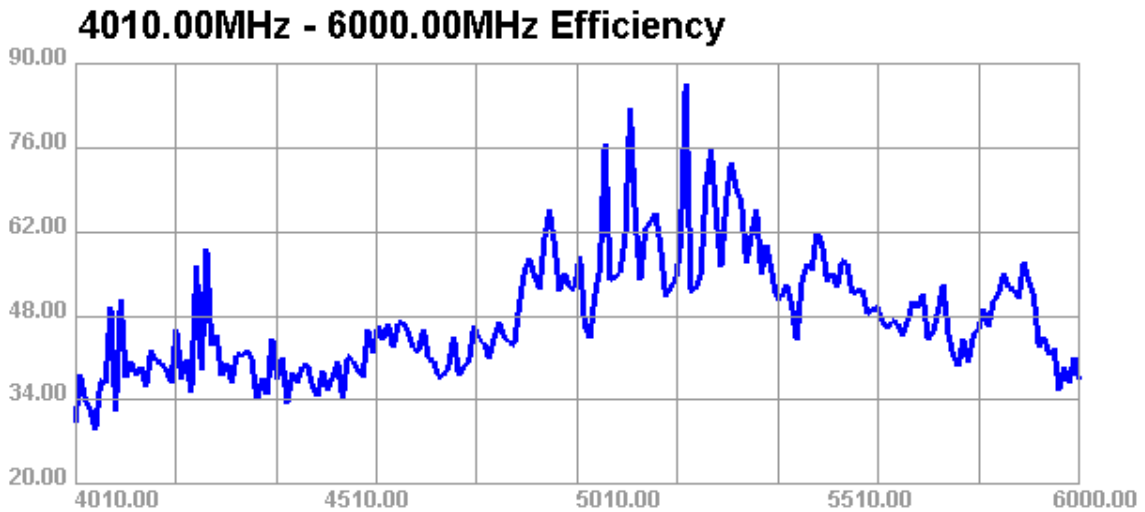
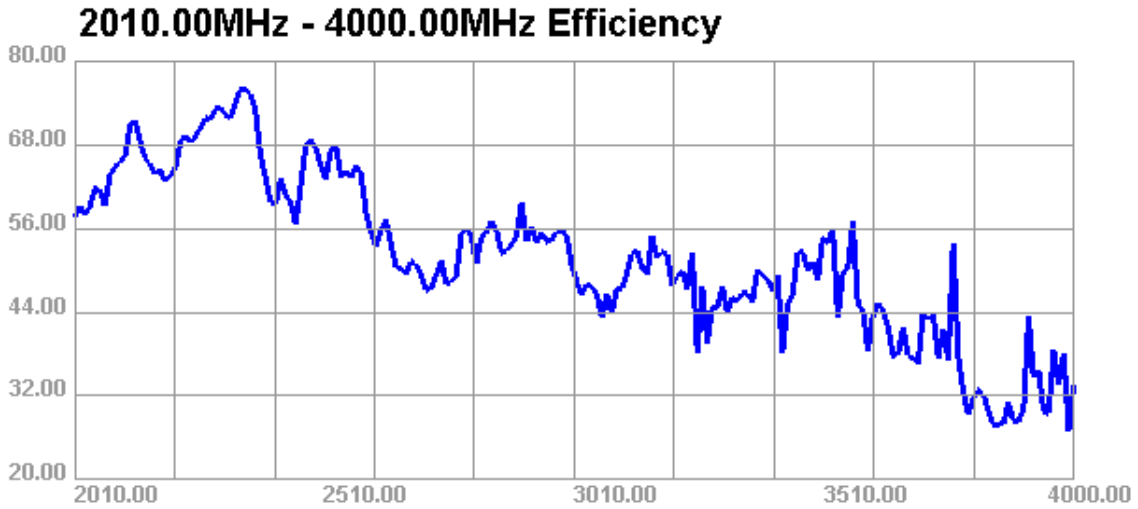


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Frequency(MHz)	600	824	960	1200	1575	1710	2690	3300	5000	5925
Efficiency	49.9	42.8	62.9	36.2	75.4	67.8	50.8	47.6	52.6	44.4



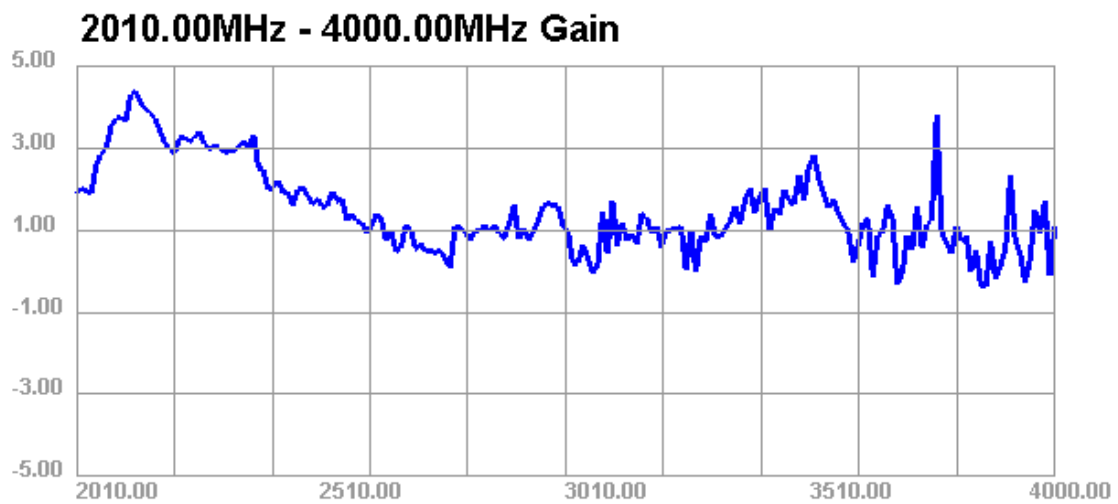
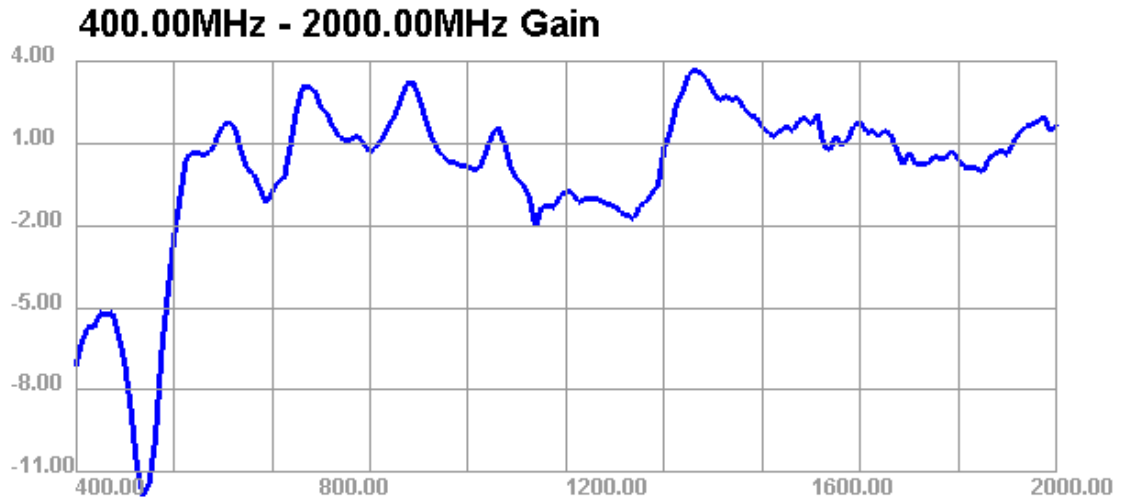


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Frequency(MHz)	600	824	960	1200	1575	1710	2690	3300	5000	5925
Gain	0.63	1.58	2.65	-0.75	1.87	1.25	0.99	1.44	1.88	3.02



MiotWireless

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### Packaging

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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.