



# Multiband 2G 3G 4G/LTE Antenna



Part Number: L-1RB4

80\*10mm  
 RoHS/RoHS II Compliant

## Features

- Operates in 698-960/1710-2170 MHz and 2500-2700MHz
- VSWR 1.4
- Vertical polarization
- High gain of 6 dBi

## 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	1.4		5.1		
Polarization Model	Vertical				
Impedance		50		$\Omega$	
Gain			6	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





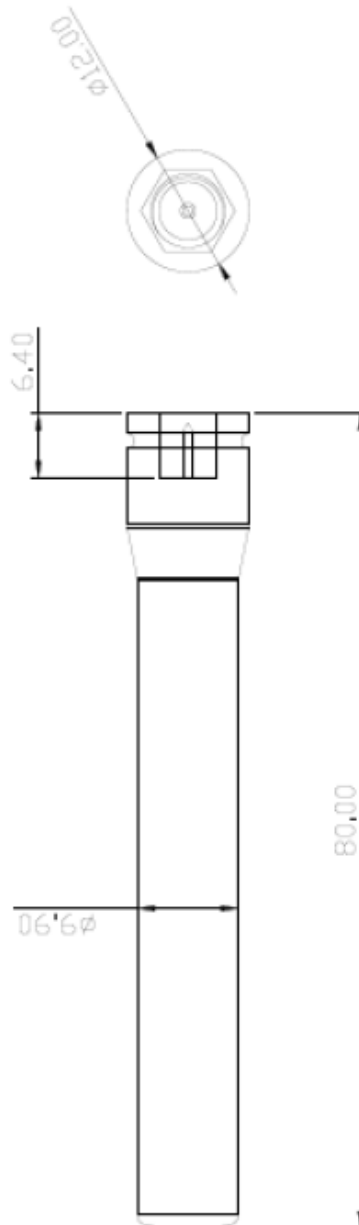
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## Dimensions





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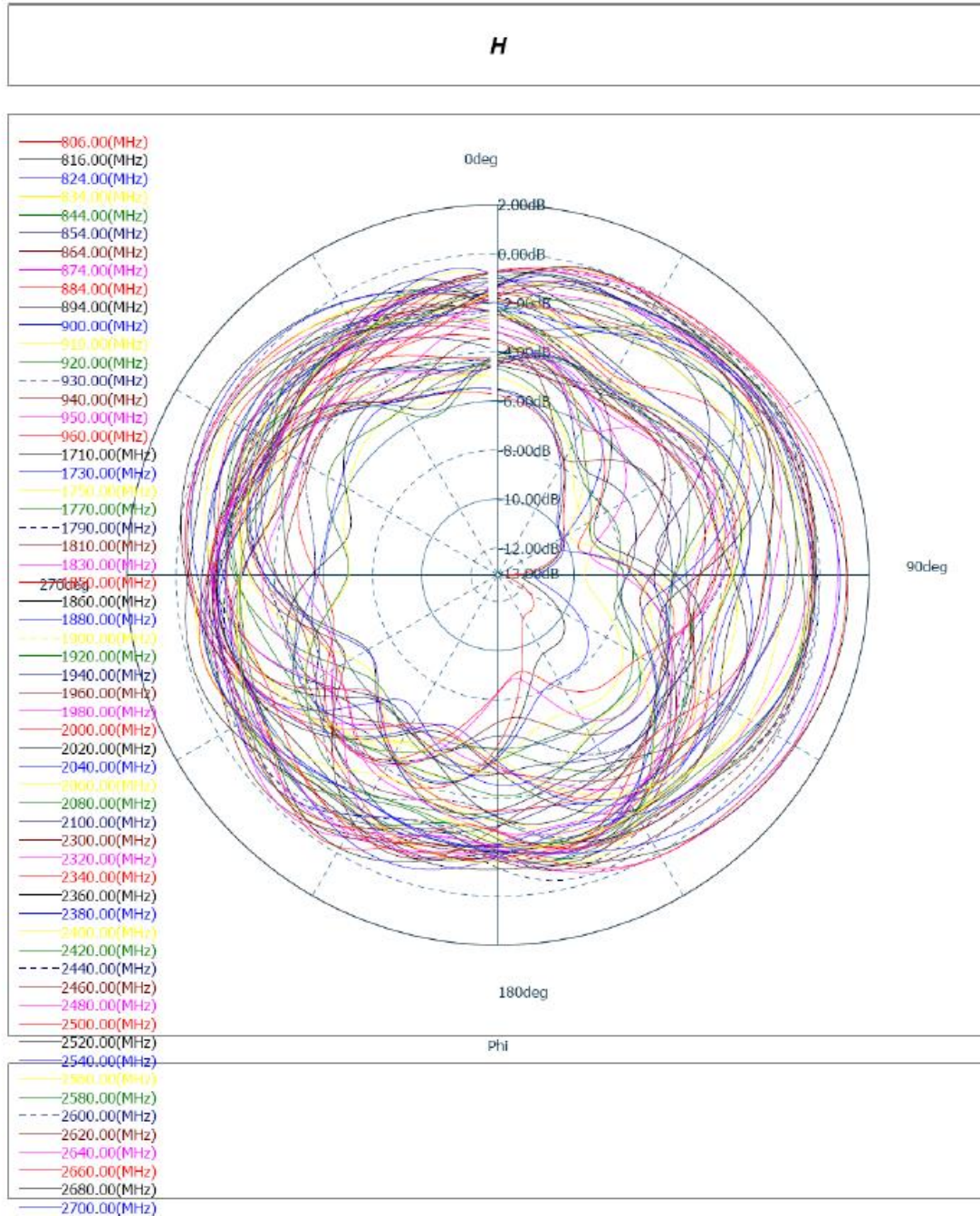


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## Radiation Pattern

2D – Pattern



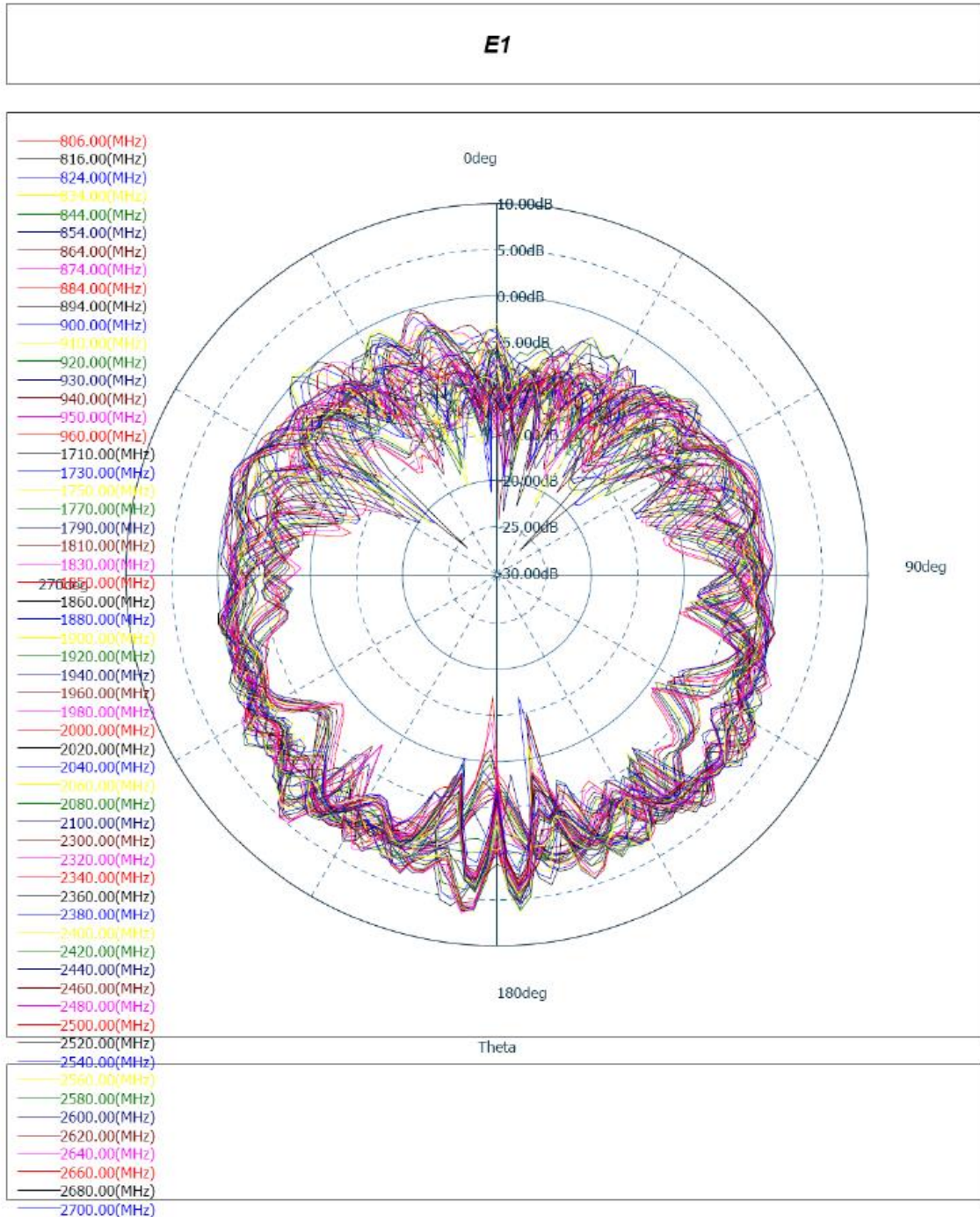


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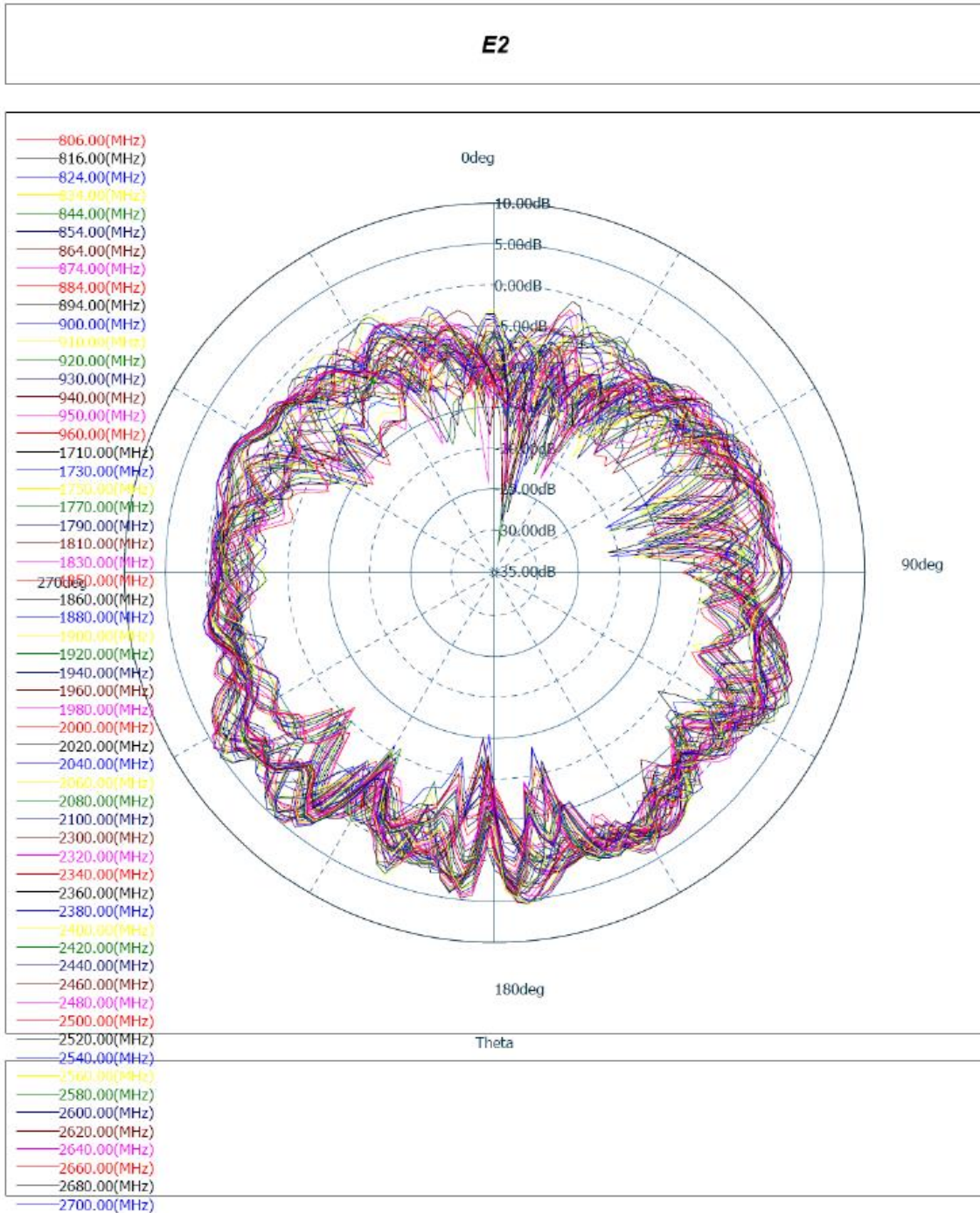


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## Antenna Parameters

<b>Freq/MHZ</b>	824	880	960	1710	1880	1960	2170	2400	2690
<b>VSWR</b>	1.5	1.7	5.1	1.6	1.5	1.5	1.4	1.4	1.5

Frequency(MHz)	Efficiency (%)	Gain(dBi)
806	43	2.80
816	44	3.11
824	42	2.72
834	44	3.26
844	42	3.25
854	42	3.11
864	45	3.62
874	43	3.49
884	42	3.39
894	44	3.70
900	41	3.34
910	39	3.30
920	37	3.41
930	37	3.04
940	35	2.94
950	31	2.31
960	30	2.15
1710	49	5.12
1730	51	4.55
1750	5	5.46
1770	55	6.38
1790	58	6.19
1810	57	6.76
1830	59	6.58
1850	62	6.54
1860	62	6.45
1880	62	6.27
1900	62	6.33
1920	58	6.41
1940	61	6.64
1960	59	6.45
1980	63	6.28
2000	65	5.56
2020	68	5.15
2040	68	5.73
2060	72	5.03
2080	70	4.29
2100	71	4.27
2300	68	3.48



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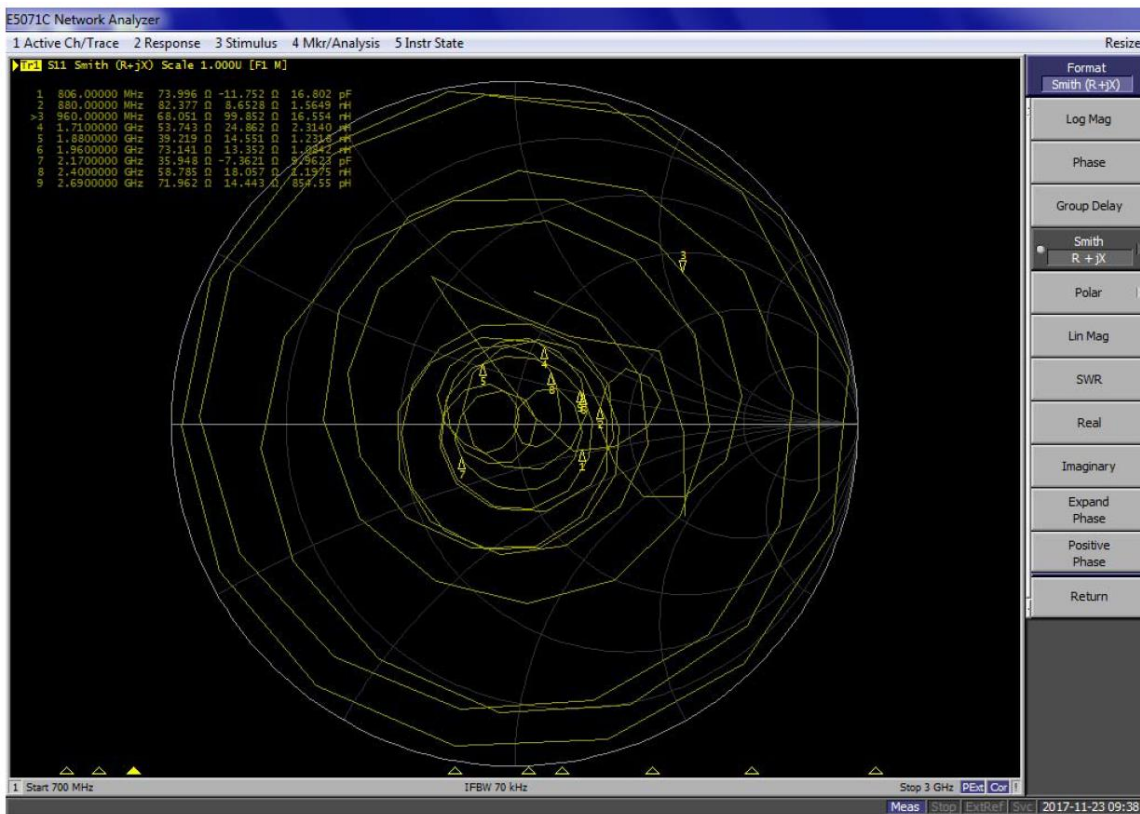


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2320	63	3.34
2340	59	3.19
2360	59	3.84
2380	59	4.29
2400	58	4.35
2420	62	3.72
2440	62	3.43
2460	63	3.31
2480	63	4.77
2500	63	4.78
2520	61	4.84
2540	61	5.27
2560	58	5.62
2580	58	5.80
2600	60	5.95
2620	60	5.16
2640	64	4.81
2660	63	4.32
2680	67	3.84
2700	65	2.86

## Smith







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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.