



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 4G/LTE External Antenna



AEACAC198013-S698



198.0 x Ø13.0 mm  
RoHS/RoHS II Compliant

MSL = N/A: NOT APPLICABLE

## FEATURES

- Operates in 698-960 MHz and 1710-2655 MHz
- Gain of 3dBi
- VSWR  $\leq$  3.0
- Input of 10W

## APPLICATIONS

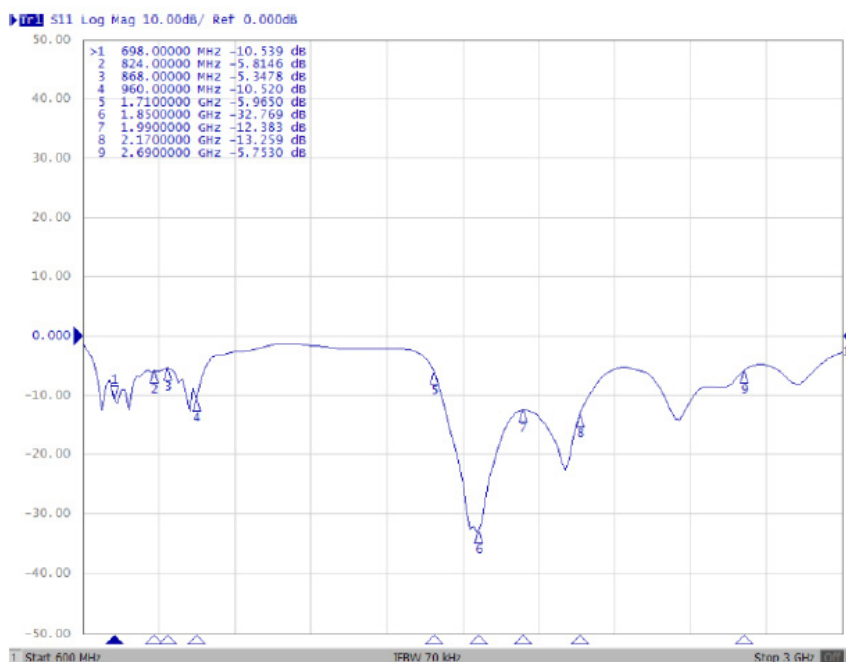
- 4G/LTE
- 2G/3G/4G radios
- LTE radios
- Gateways
- Set-Top Boxes
- Security
- IoT

## ELECTRICAL SPECIFICATIONS

Parameters	min	Typ.	Max.	Units	Note
Frequency Range		698~960/1710~2655		MHz	
VSWR			3.0		
Polarization Model		Linear			
Impedance		50		$\Omega$	
Gain		3		dBi	
Operating Temperature	-40		+85	$^{\circ}\text{C}$	
Input Power			10	W	

## RETURN - LOSS CHARACTERISTICS

### S11 Return-Loss





# 4G/LTE External Antenna

AEACAC198013-S698



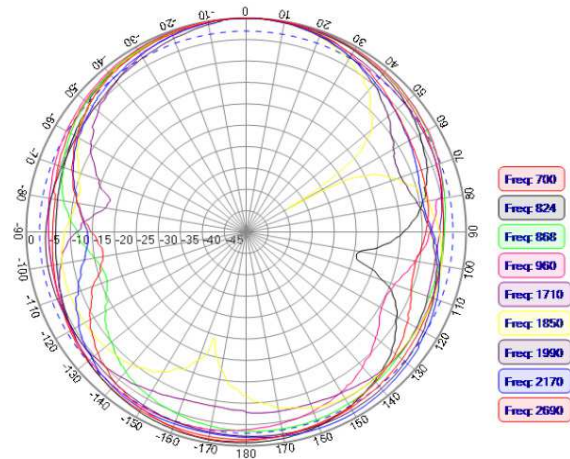
198.0 x Ø13.0 mm  
RoHS/RoHS II Compliant

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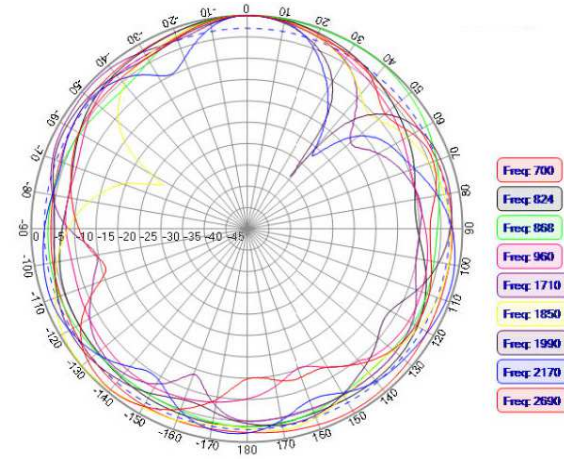
## RADIATION PATTERNS

### Antenna 2D Patterns

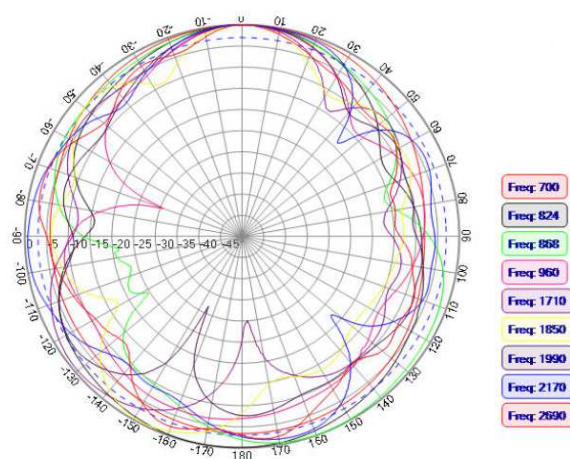
XY Plane



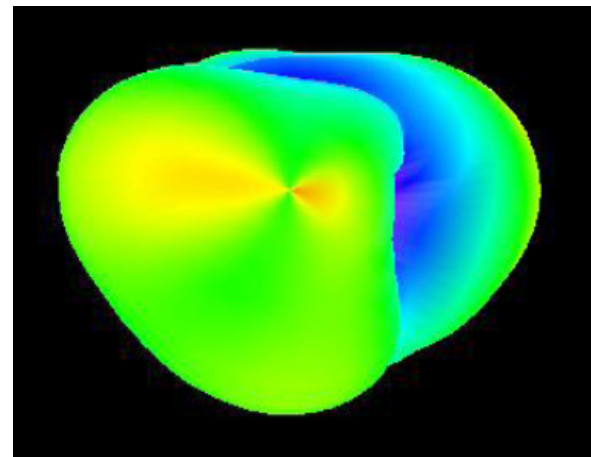
XZ Plane



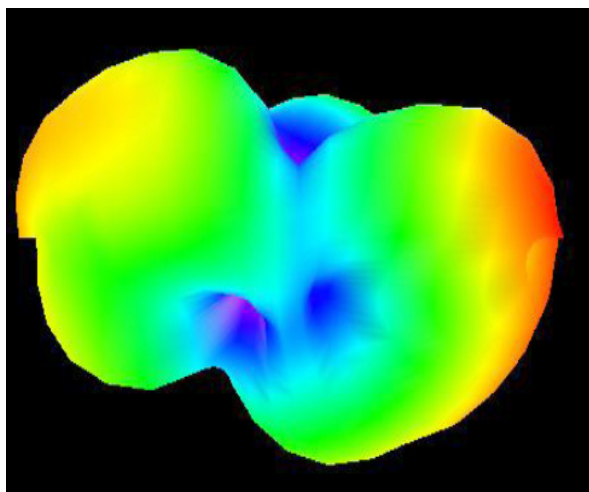
YZ Plane



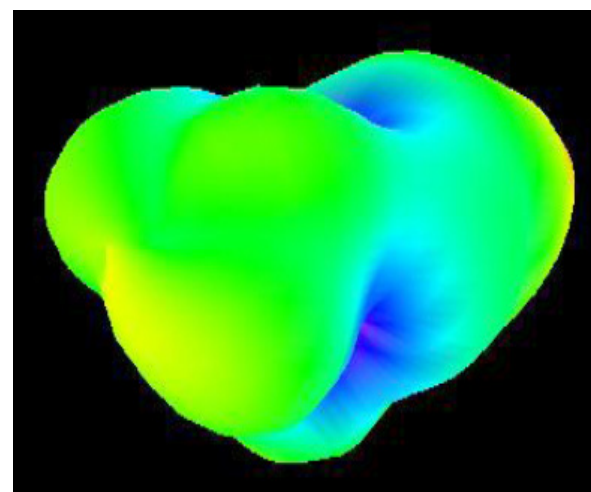
### Antenna 3D Patterns 700 MHz



824 MHz



868 MHz



# 4G/LTE External Antenna

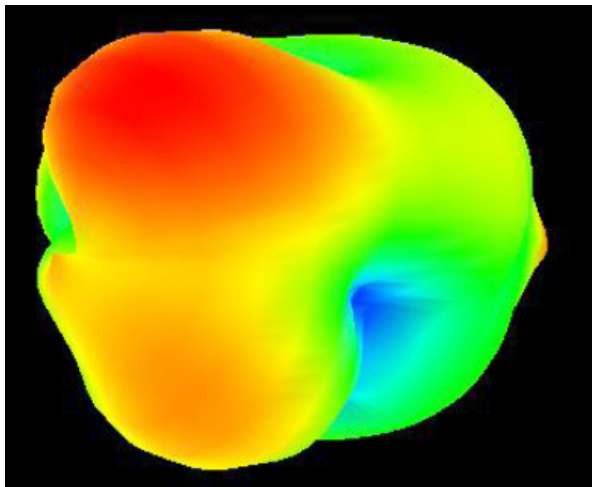


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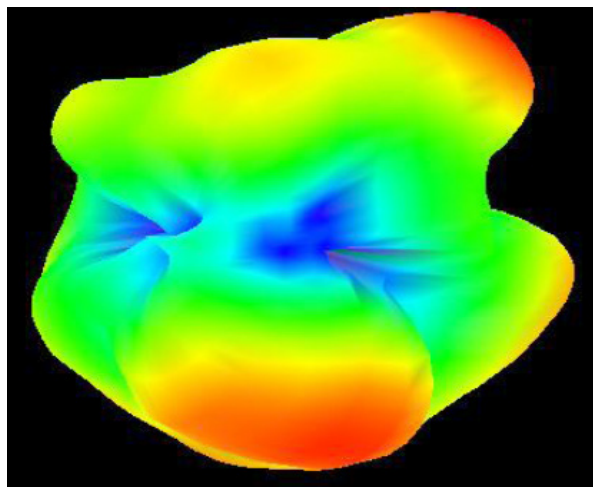
**Pb** | 198.0 x Ø13.0 mm  
**RoHS/RoHS II Compliant**  
 MSL = N/A: NOT APPLICABLE

## RADIATION PATTERNS

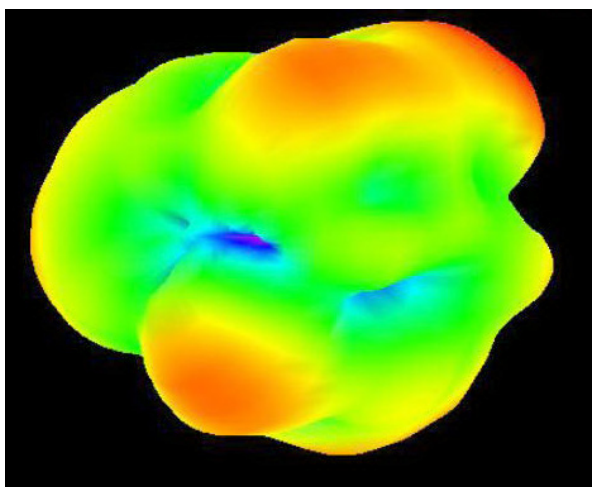
960 MHz



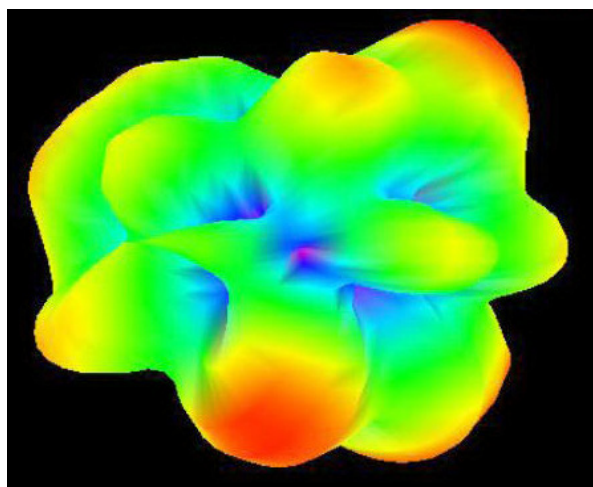
1710 MHz



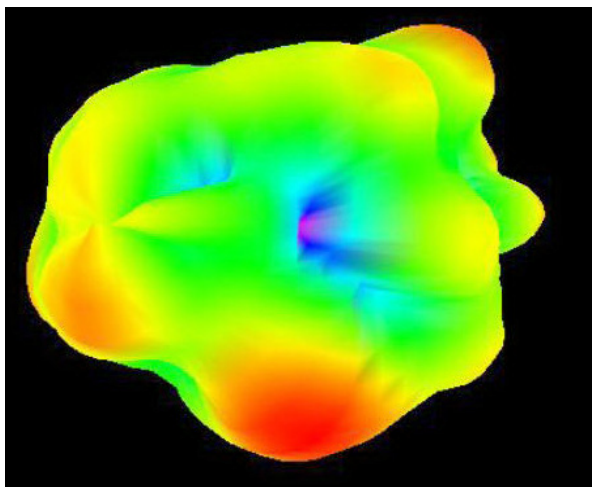
1850 MHz



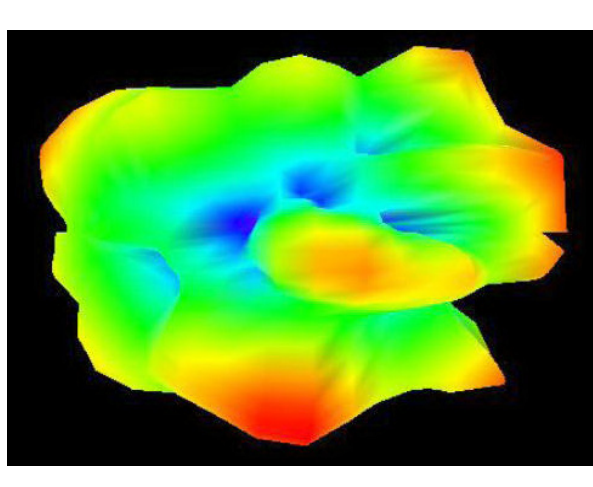
1990 MHz



2170 MHz



2690 MHz



Frequency (MHz)	700	824	868	960	1710	1850	1990	2170	2690
Peak Gain (dBi)	3.50	3.60	4.60	3.30	-0.40	3.20	2.00	1.69	0.52
Efficiency (%)	55	58	57	56	57	60	63	60	58

# 4G/LTE External Antenna

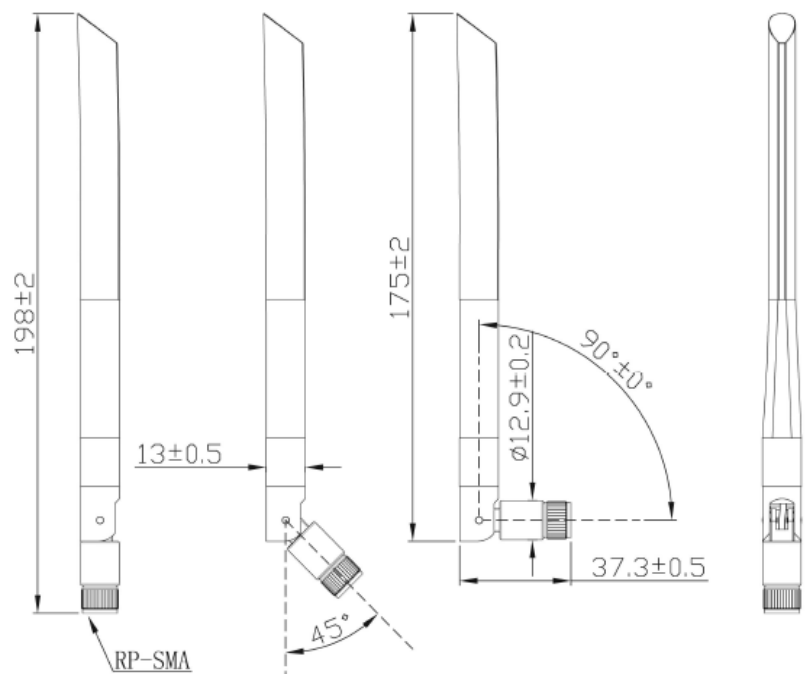
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198.0 x Ø13.0 mm  
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## DIMENSIONS:



Unit: mm



Parameters	Description
RF Connector	SMA Male
Mounting Type	Connector mount

## PACKAGING:

Each 495 x 225 x 270 mm size carton includes 500 pcs antenna, 13kgs/carton.

Unit: mm

