

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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# AEACBK046014-C2WG



**ESD Sensitive** 



MSL = N/A: NOT APPLICABLE

### **FEATURES**

- IP67 Dust and Waterproof
- 1574.42MHz/2450MHz/5500MHz frequencies
- LNA Gain up to 20dBi+/-2dB
- VSWR  $\leq 1.5/2.5$  for GPS/WiFi
- RHCP/Linear polarization for GPS/WiFi

## **APPLICATIONS**

- GPS/GLONASS
- WiFi/Bluetooth/Zigbee,
- ISM devices
- Use on outdoor and indoor assets
- M2M
- Telematics
- Commercial vehicles/ Fleet management
- Remote Technology/Monitoring

### **ELECTRICAL SPECIFICATIONS**

Parameters	Min.	Тур.	Max.	Units	Note
Frequency		$1575.42 \pm 3$ MHz		MHz	
Bandwidth		$CF \pm 4MHz$		MHz	
VSWR			1.5		
Polarization	RHCP				(Right Hand Circular Polarization)
Impedance		50		Ω	
Gain		0		dBi	(Zenith)
Operating Temperature	-40		+85	°C	
Input Power			10	W	

## LOW NOISE AMPLIFIER (LNA)

Parameters	Min.	Тур.	Max.	Units	Note
DC Voltage		3.3		V	
Gain		20±2dB		dB	
Output VSWR			2.0		
Noise Figure			1.5	dB	
DC current			10	mA	

### Wifi ANTENNA

Parameters	Min.	Тур.	Max.	Units	Note
Frequency Range		2400~2483.5/4800~5825		MHz	
VSWR			2.5		
Polarization Model		Linear			
Impedance		50		Ω	
Gain		2		dBi	(Zenith)
Operating Temperature	-40		+85	°C	
Input Power			10	W	



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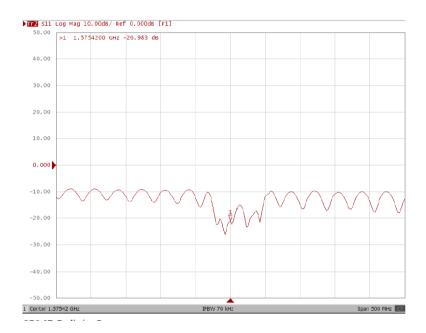
**RETURN - LOSS CHARACTERSTICS** 



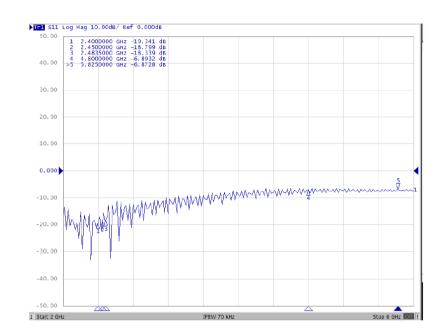
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### **RETURN - LOSS CHARACTERSTICS**

### **GPS S11 Return Loss**

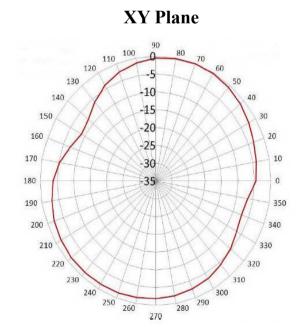


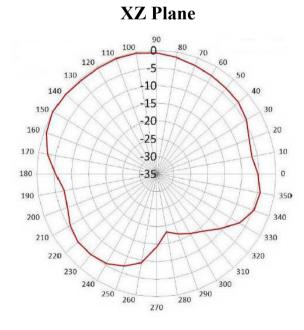
# WiFi S11 Return Loss

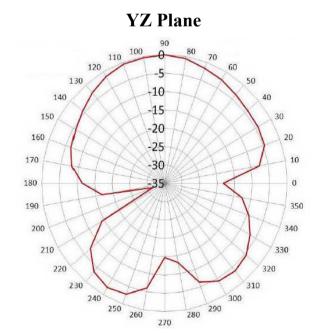


### **RADIATION PATTERNS**

# **GPS Antenna 2D Patterns**







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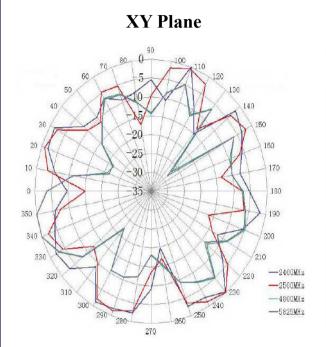
**ESD Sensitive** 

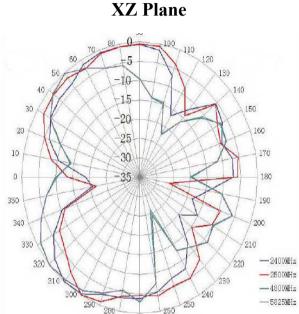


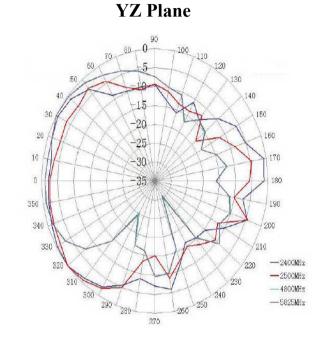
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### **RADIATION PATTERNS**

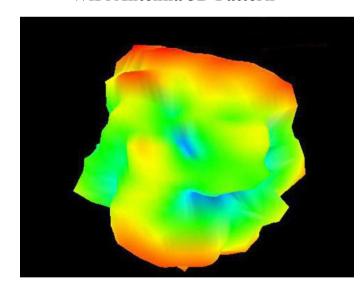
### WiFi Antenna 2D Patterns







WiFi Antenna 3D Pattern



Frequency (MHz)	2400	2450	2483
Peak Gain (dBi)	-4.2	-4.50	-4.53
Efficiency (%)	61	61	63



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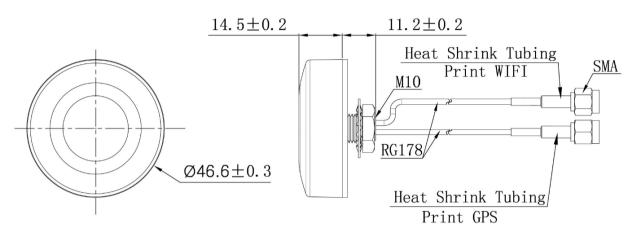
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## **DIMENSIONS**



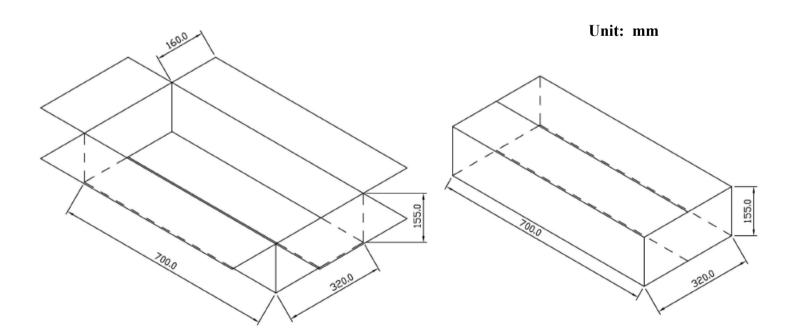
Unit: mm

Parameters	Description		
Cable Length	3.00 m		
RF Cable	RG178		
RF Connector	SMA and others		
Radome Material	ABS		
Mounting Type	Screw		



# **PACKAGING**

Each 700 x 320 x 155 mm size carton includes 100 pcs antenna, 8kgs/carton.





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