

(Ground cleared under antenna, clearance area 10.80 x 6.25mm)

### **Features**

- Omni directional radiation
- Low profile
- Compact size W x L x H (3.2 x 10.0 x 2.0 mm)
- Low weight (310 mg)
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packaging
- RoHS Compliant Product

### **Applications**

- Systems: GPS/GLONASS/Beidou/Galileo
- 1560 1610 MHz
- Global Navigation
- Asset and Fleet Tracking
- Mobile Devices
- Industrial, Internet of Things

### Electrical specifications @ +25 °C

Note: Electrical characteristics depend on test board (GP) size and antenna positioning on GP and Ground Clearance area size.

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### Covered positioning systems: GPS, GLONASS, Beidou, Galileo

Typical performance (test board size 80x37 mm, PWB ground clearance area 10.80 x 6.25 mm)

ELECTRICAL SPECIFICATIONS		
FREQUENCY (MHz)	1560-1610 MHz	
NOMINAL IMPEDANCE (Ω)	50	
RETURN LOSS	<-12dB	
VSWR min	1.6:1	
EFFICIENCY	-1.2 dB	
EFFICIENCY	75%	
GAIN MAX	3 dBi±1 dBi	
GAIN MAX RHCP	1 dBic± 1 dBic	
POWER WITHSTANDING	2 watts	
CONNECTOR TYPE	SMD	

ENVIRONMENTAL SPECIFICATIONS		
OPERATING TEMPERATURE	-40 to +85 °C	

MECHANICAL SPECIFICATIONS		
SIZE	3.2 x 10.0 x 2.0 mm	
WEIGHT	0.310g	

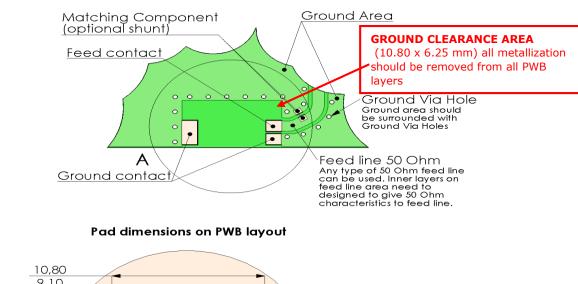


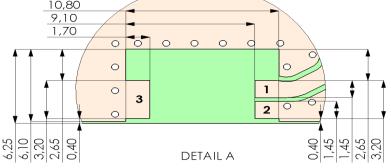


Ceramic Chip Antenna (Ground cleared under antenna, clearance area 10.80 x 6.25 mm)

### **Terminal Configuration**

Layout





PWB features			
No.	Terminal Name	Terminal Dimensions	
1	Feed	1,70 x 1,45 mm	
2	GND	1,70 x 1,45 mm	
3	GND	1,70 x 3,20 mm	

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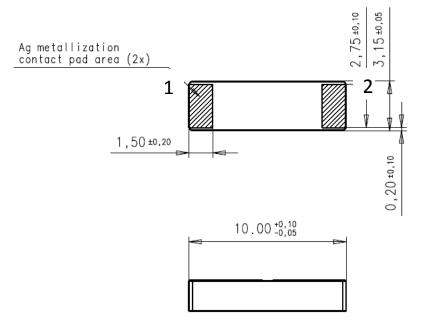


## Ceramic Chip Antenna

Ceramic Chip Antenna (Ground cleared under antenna, clearance area 10.80 x 6.25 mm)

### **Terminal Configuration**

### Antenna



No.	Terminal Name	Terminal Dimensions	
1	Feed / GND	1.50 x 2.75 mm	
2	Feed / GND	1.50 x 2.75 mm	
Antenna is symmetrical. Either of terminals 1 or 2 can be Feed / GND			

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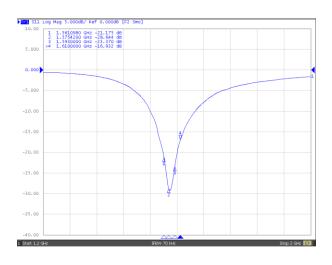
(Ground cleared under antenna, clearance area 10.80 x 6.25 mm)

### Typical Electrical Characteristics (T=25 °C)

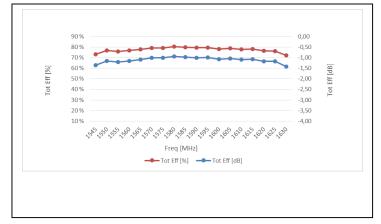
Measured on the 80 x 37 mm test board without matching circuit

Typical Return Loss S11/ impedance

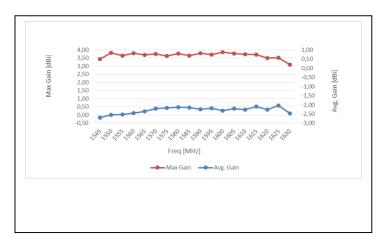
Free space efficiency and maximum gain

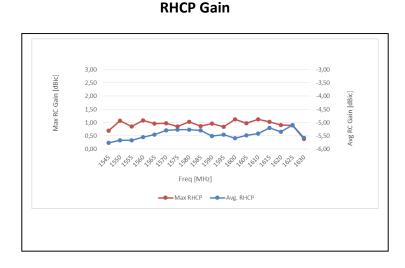


### **Total Efficiency**



Gain

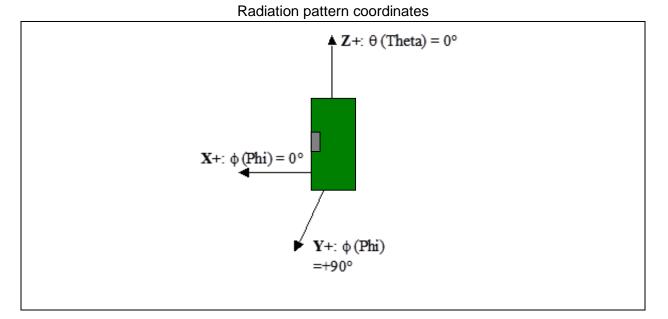




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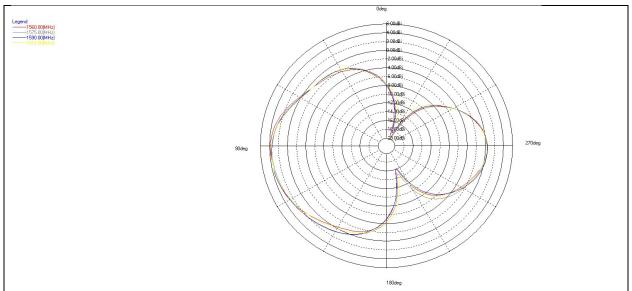
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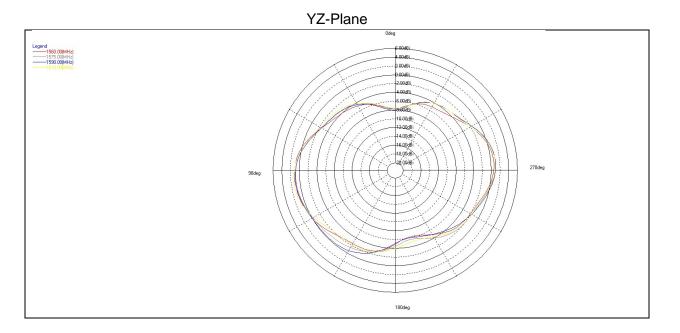


Typical Free space Radiation Patterns

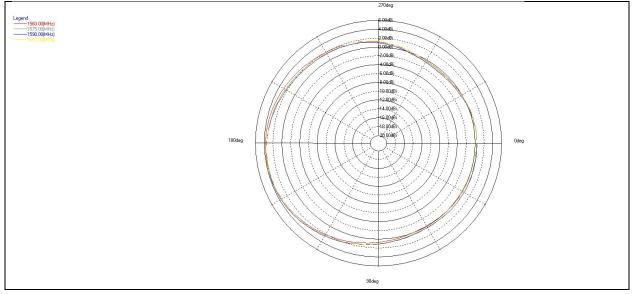




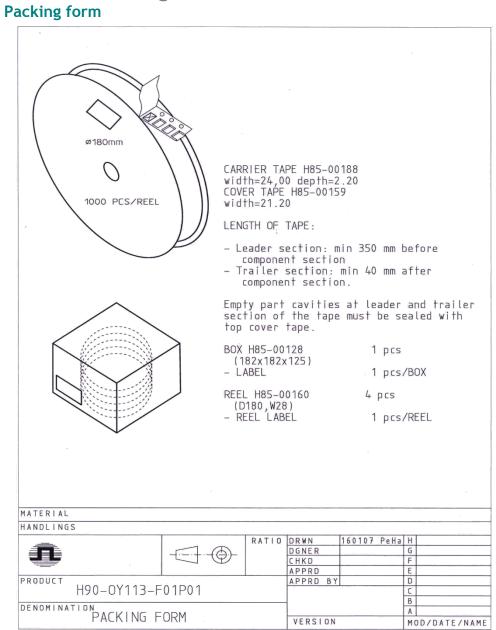












# Antenna Packing

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