

**Series: Ceramic Patch** 

### TECHNICAL DATA SHEET

**Description**: 18x18x4mm GPS/Glonass SMD

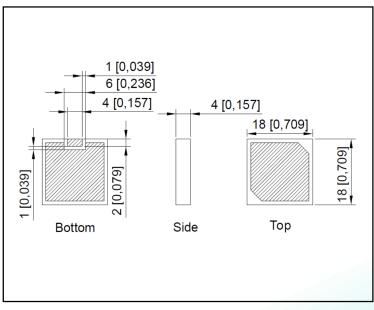
Mount

PART NUMBER: W3224



### **Features:**

- 1575/1602MHz Dualband singe feed antenna
- RHCP Polarization
- Zenith Gain +3dBiC
- SMD compatible
- Tape & Reel packing
- Moisture Sensitive Level: MSL-1



# **Applications:**

- GPS and Glonass satellite receivers
- Tracking, Navigation, Satellite Positioning
- Fleet management
- Asset tracking

All dimensions are in mm / inches

Issue: 2047

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

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### **ELECTRICAL SPECIFICATIONS**

Frequency 1575.42±1.023/1602.5625±4 MHz

Nominal Impedance 50  $\Omega$ 

Return Loss\* <-10 dB

RHCP Gain (typical)\* 2/2.5 dBiC

Zenith Axial Ratio(typical)\* 9.5

Polarization: RHCP

<sup>\*</sup> Measured on 70 x 70 mm reference board



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### **MECHANICAL SPECIFICATIONS**

Material Ceramic

Metallization Silver

Size 18 x 18 x 4 mm

Weight 6.1 g

Mounting type SMD

### **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature

-40 / + 95 ° C





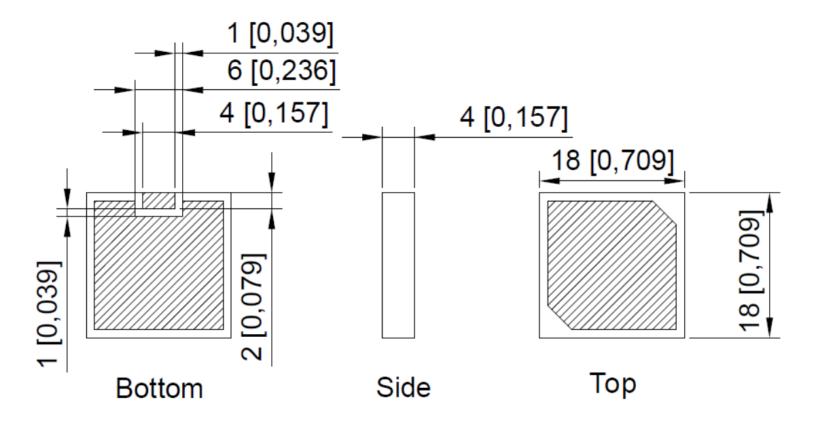
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### **MECHANICAL DRAWING**





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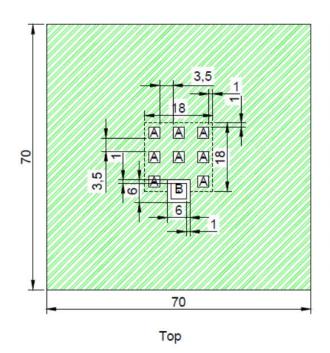
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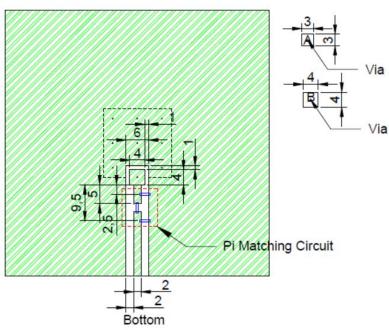
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### **OTHER SPECIFICATIONS**

# **Test Condition Ground Plane (Example for PCB 1 mm)**





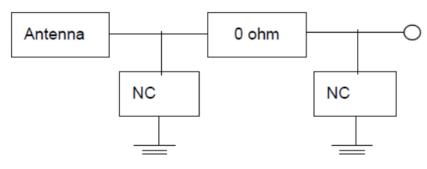
Unit: mm

A. B are Solder Pads

Bottom side needs  $\pi$  matching circuit.

Tolerance: ± 0.2 mm

# $\pi$ matching circuit:



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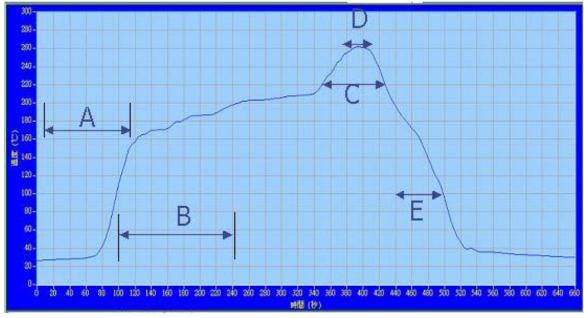
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### **OTHER SPECIFICATIONS**

# **Recommendable Reflow Soldering**



Α	Rising temperature	The normal to Preheating	60s to 120s
В	Preheating	80℃ to 200℃	140s to 150
С	Temperature	220℃ to 260℃ to 220℃	80 to 90s
D	Main heating	if 260°C	20s∼30s
Е	Regular cooling	200℃ to 100℃	1°C/s ~ 4°C/s

<sup>\*</sup> The thickness of Solder should be controlled to be higher than 0.1 mm.

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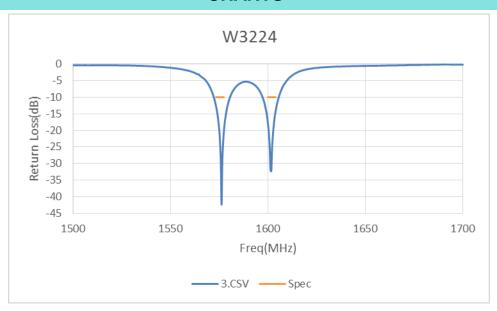
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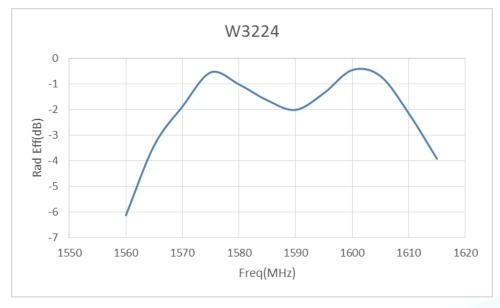
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### **CHARTS**



# **Return Loss**



**Total Radiation Efficiency** 



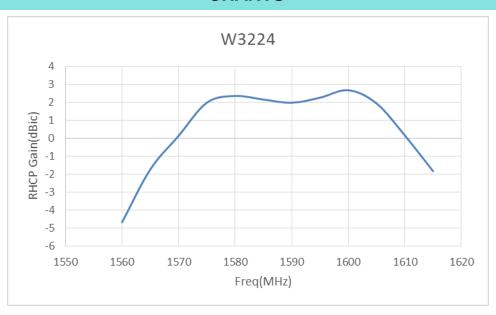
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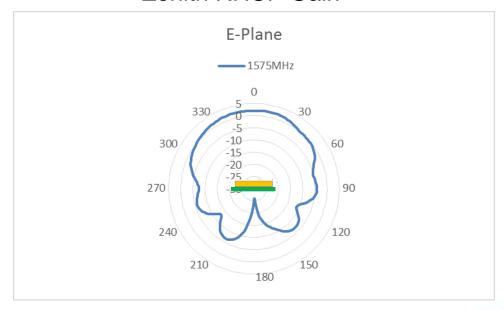
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### **CHARTS**



# Zenith RHCP Gain



GPS Radiation pattern on 70mmX70mm metal plane

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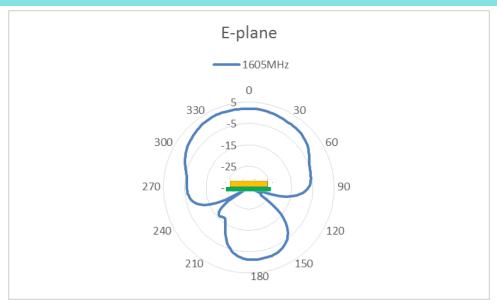
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### **CHARTS**



Glonass Radiation pattern on 70mmX70mm metal plane





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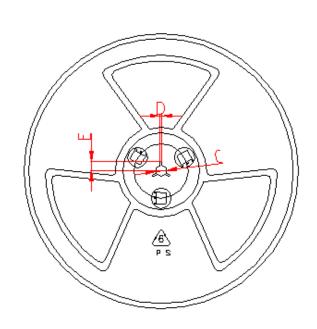
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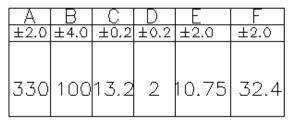
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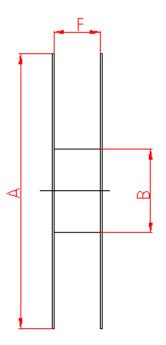
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### **PACKAGING**

# Reel & Tape packing 300PCS/reel







# 单击下面可查看定价,库存,交付和生命周期等信息

# >>Pulse(普思)