

Series: Ceramic Patch

TECHNICAL DATA SHEET

Description: 18x18x4mm GPS/Glonass SMD Mount

feed antenna

BHCP Polarization

Zenith Gain +3dBiC

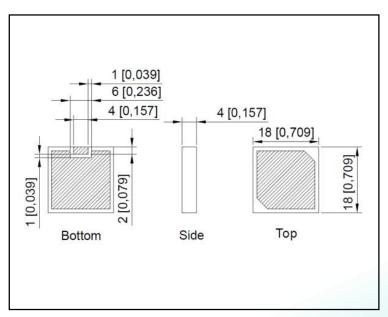
Tape & Reel packing

SMD compatible

PART NUMBER: W3224

Features:





All dimensions are in mm / inches

Issue: 2047

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Applications:

GPS and Glonass satellite receivers

1575/1602MHz Dualband singe

Moisture Sensitive Level: MSL-1

- Tracking, Navigation, Satellite Positioning
- Fleet management
- Asset tracking



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ELECTRICAL SPECIFICATIONS

Frequency	1575.42±1.023/1602.5625±4 MHz	
Nominal Impedance	50 Ω	
Return Loss*	<-10 dB	
RHCP Gain (typical)*	2/2.5 dBiC	
Zenith Axial Ratio(typical)*	9.5	
Polarization:	RHCP	

* Measured on 70 x 70 mm reference board

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MECHANICAL SPECIFICATIONS

Ceramic
Silver
18 x 18 x 4 mm
6.1 g
SMD

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40 / + 95 ° C

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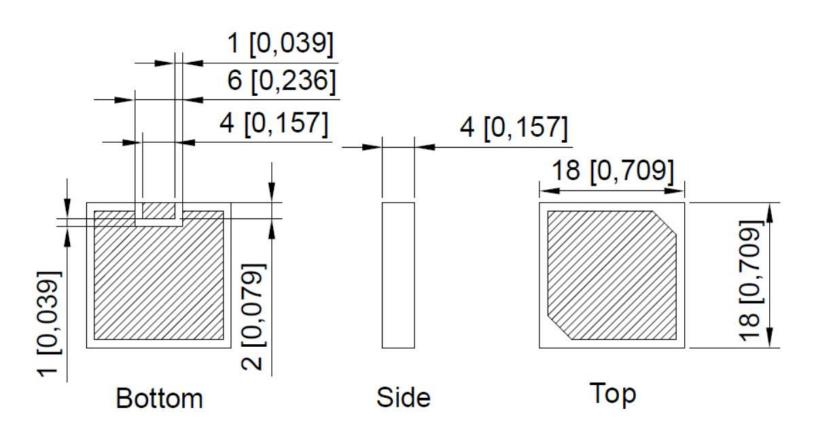


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MECHANICAL DRAWING



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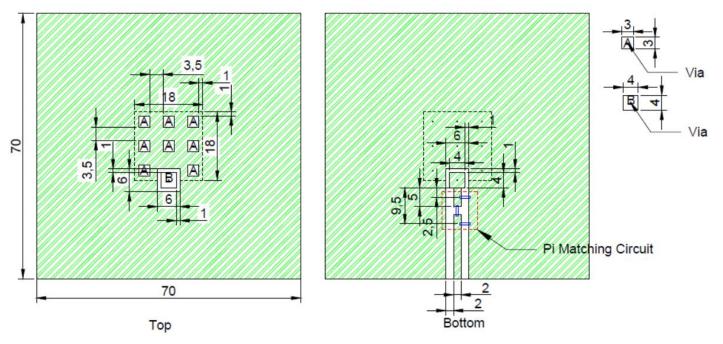
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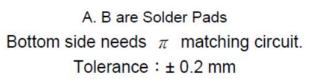
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OTHER SPECIFICATIONS

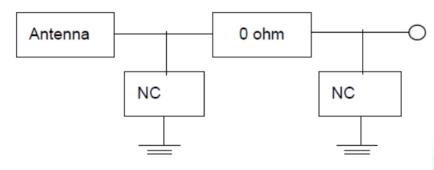
Test Condition Ground Plane (Example for PCB 1 mm)



Unit : mm



π matching circuit :



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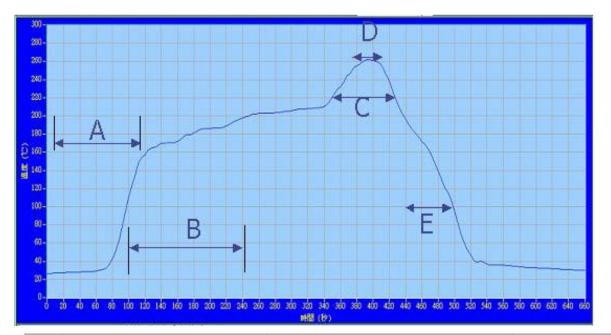
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OTHER SPECIFICATIONS

Recommendable Reflow Soldering



A	Rising temperature	The normal to Preheating	60s to 120s 140s to 150	
В	Preheating	80℃ to 200℃		
С	Temperature	220°C to 260°C to 220°C	80 to 90s	
D	Main heating	if 260°C	20s~30s	
Е	Regular cooling	200°C to 100°C	$1^{\circ}C/s \sim 4^{\circ}C/s$	

* The thickness of Solder should be controlled to be higher than 0.1 mm.

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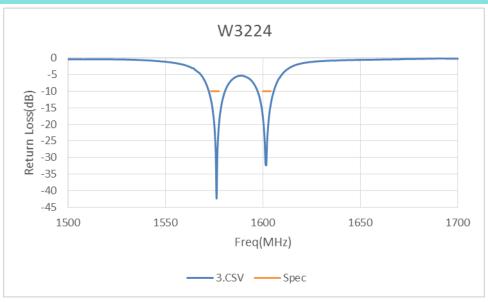


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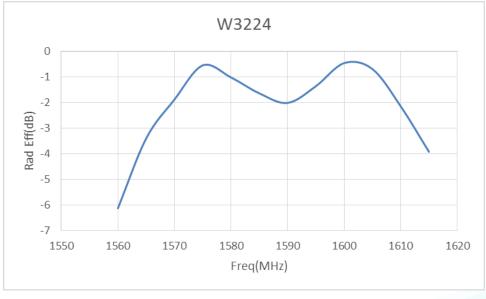
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CHARTS



Return Loss



Total Radiation Efficiency

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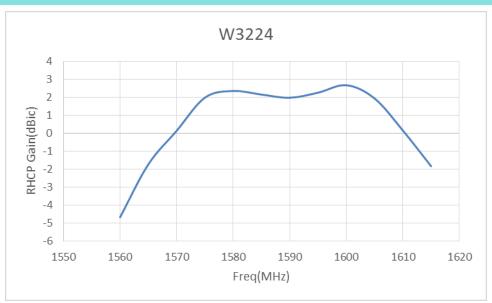
a **YAGEO** company

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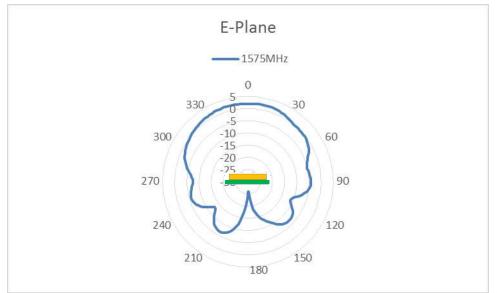
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CHARTS



Zenith RHCP Gain



GPS Radiation pattern on 70mmX70mm metal plane

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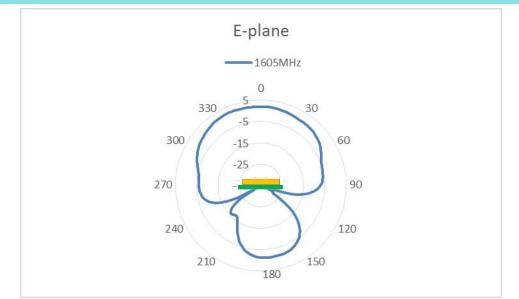


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CHARTS



Glonass Radiation pattern on 70mmX70mm metal plane



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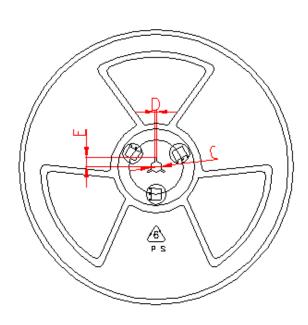
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PACKAGING

Reel & Tape packing 300PCS/reel



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A	ΙB	С	D	Ε	-
±2.0	±4.0	±0.2	±0.2	±2.0	±2.0
330	100	13.2	2	10.75	32.4

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