

Series: Ceramic Patch

TECHNICAL DATA SHEET

Description: 18x18x4mm GPS/Glonass SMD Mount

feed antenna

RHCP Polarization

SMD compatible

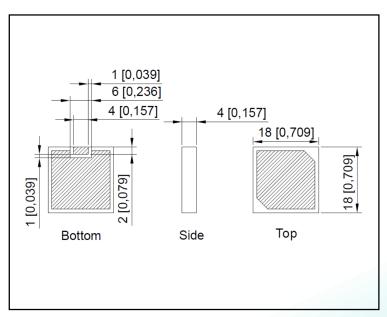
Zenith Gain +3dBiC

Tape & Reel packing

PART NUMBER: W3224

Features:





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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For more information: Pulse Worldwide Headquarters

12220 World Trade Drive San Diego, CA 92128 USA Tel:1-858-674-8100 Pulse/Larsen Antennas 18110 SE 34th St Bldg 2 Suite 250 Vancouver, WA 98683 USA Tel: 1-360-944-7551 Europe Headquarters Pulse GmbH & Do, KG Zeppelinstrasse 15 Herrenberg, Germany Tel: 49 7032 7806 0 Pulse (Suzhou) Wireless Products Co, Inc. 99 Huo Ju Road(#29 Bldg,4th Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998



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

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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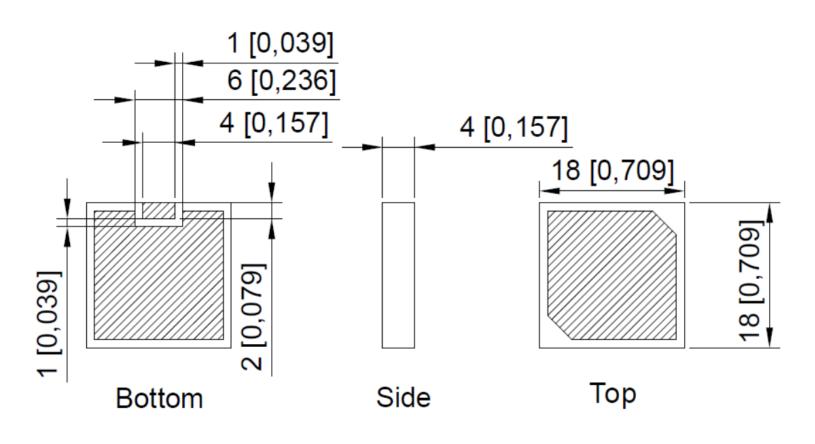


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MECHANICAL DRAWING



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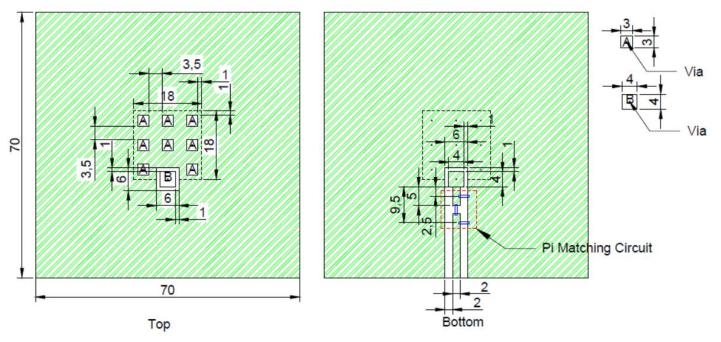
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OTHER SPECIFICATIONS

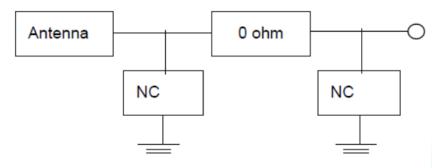
Test Condition Ground Plane (Example for PCB 1 mm)





A. B are Solder Pads Bottom side needs π matching circuit. Tolerance : ± 0.2 mm

π matching circuit :



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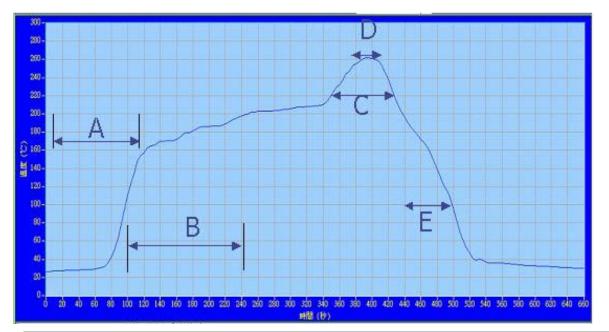
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OTHER SPECIFICATIONS

Recommendable Reflow Soldering



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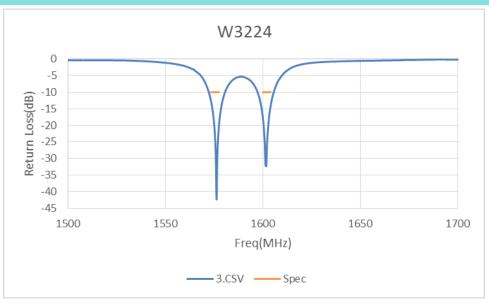


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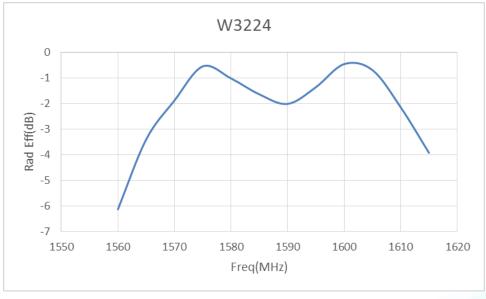
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CHARTS



Return Loss



Total Radiation Efficiency

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AGEO company

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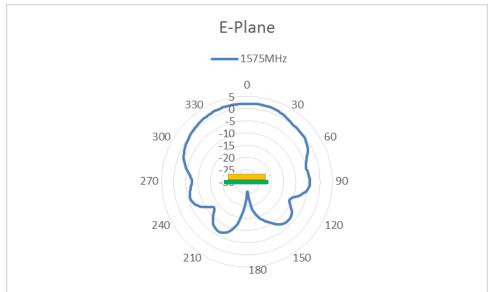
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CHARTS



Zenith RHCP Gain



GPS Radiation pattern on 70mmX70mm metal plane

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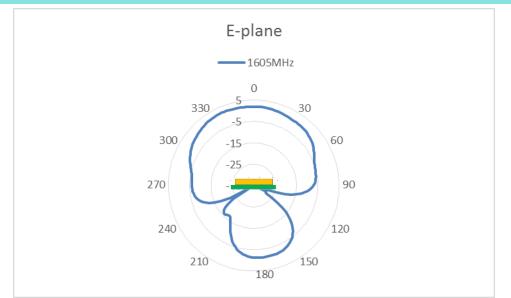


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CHARTS



Glonass Radiation pattern on 70mmX70mm metal plane



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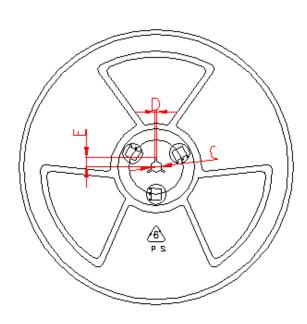
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PACKAGING

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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