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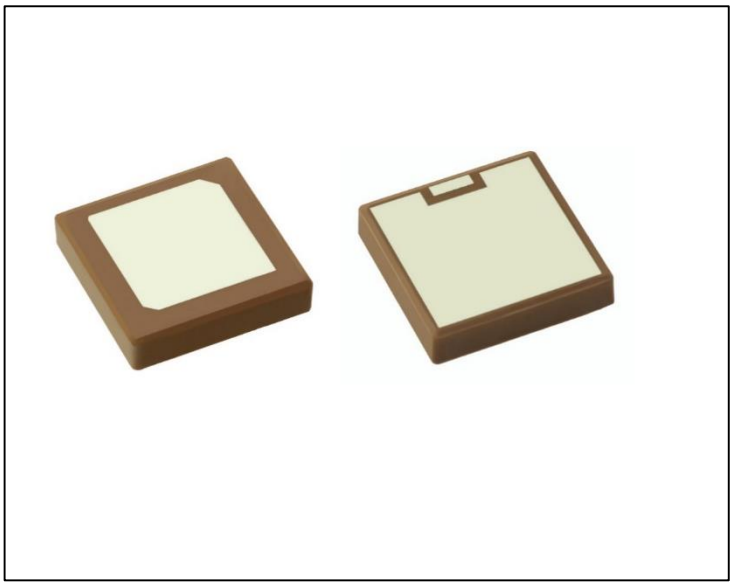
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TECHNICAL DATA SHEET

Description: 18x18x4mm GPS/Glonass SMD Mount

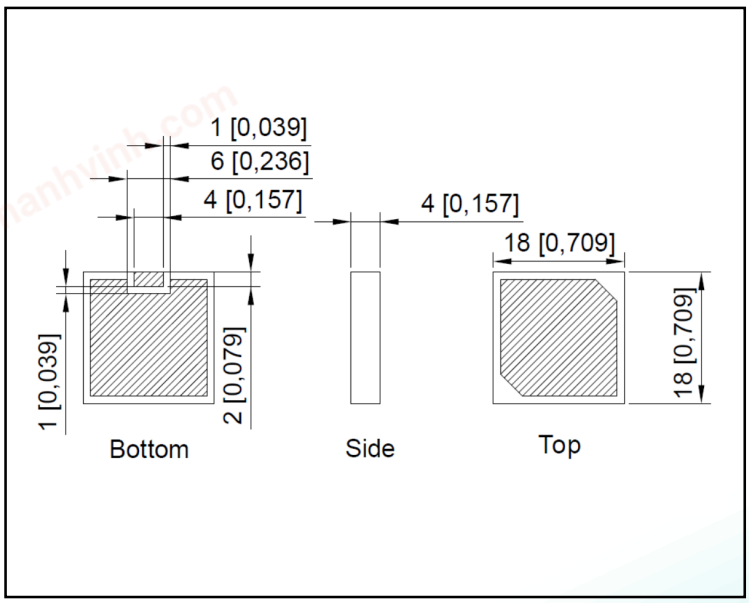
Series: Ceramic Patch

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

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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

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Description: 18x18x4mm GPS/Glonass SMD Mount

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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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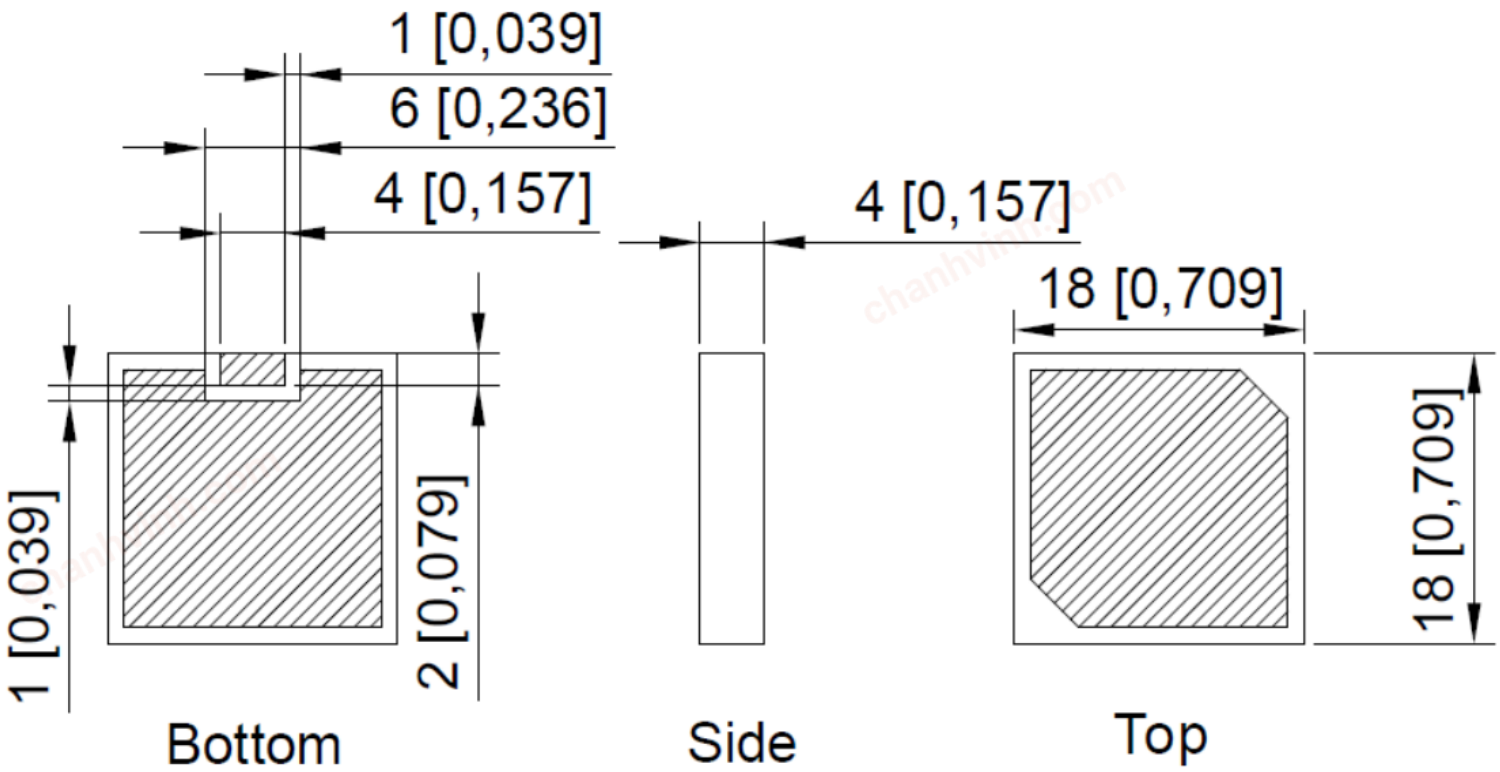
TECHNICAL DATA SHEET

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MECHANICAL DRAWING



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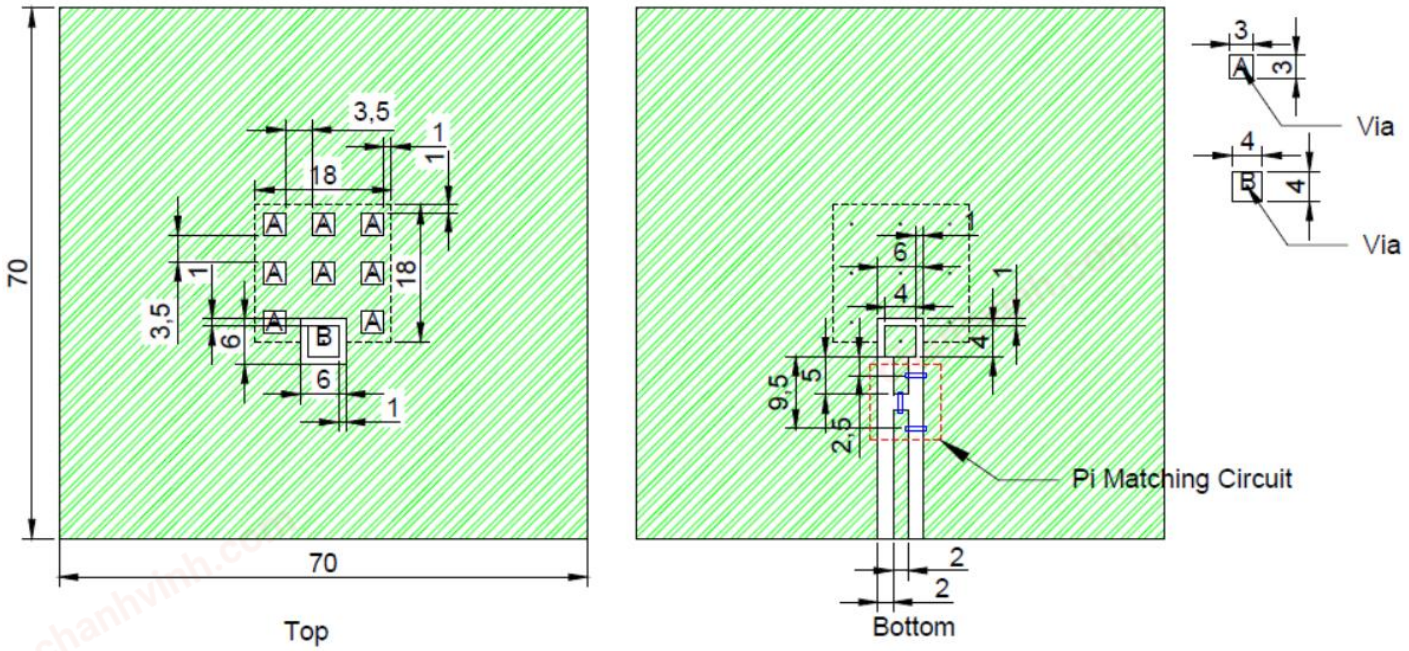
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OTHER SPECIFICATIONS

Test Condition Ground Plane (Example for PCB 1 mm)



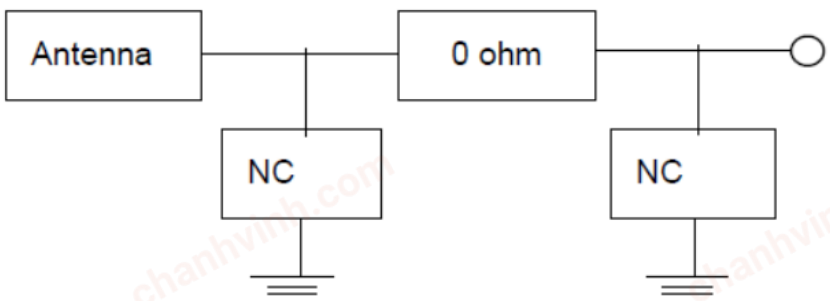
Unit : mm

A. B are Solder Pads

Bottom side needs π matching circuit.

Tolerance : ± 0.2 mm

π matching circuit :



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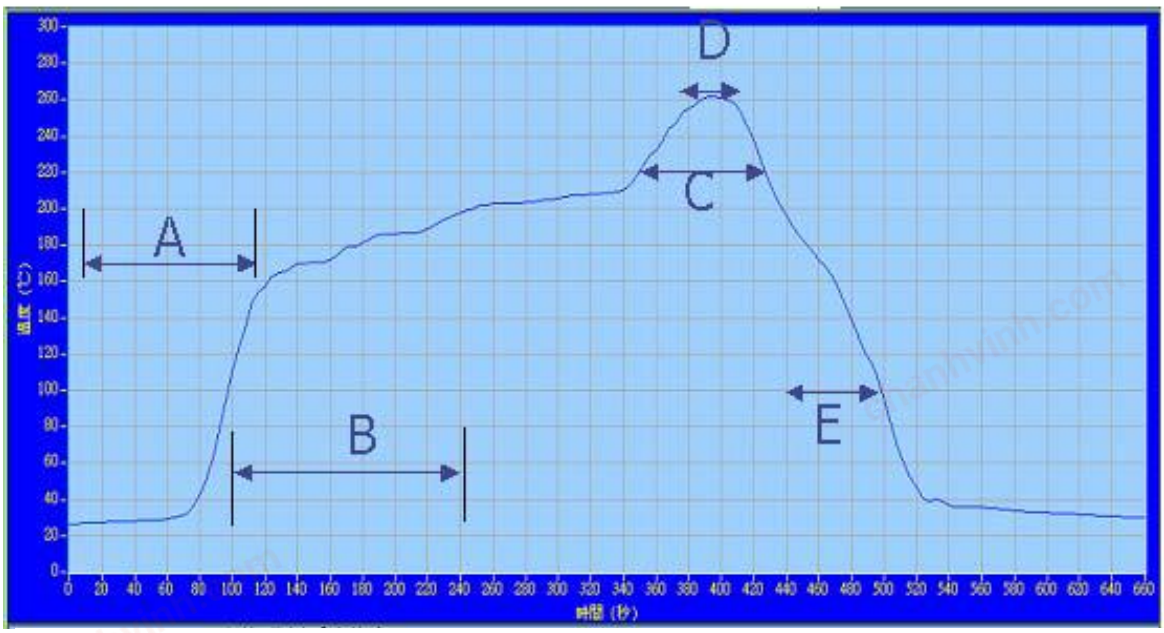
Description: 18x18x4mm GPS/Glonass SMD Mount

Series: Ceramic Patch

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OTHER SPECIFICATIONS

Recommendable Reflow Soldering



A	Rising temperature	The normal to Preheating	60s to 120s
B	Preheating	80℃ to 200℃	140s to 150
C	Temperature	220℃ to 260℃ to 220℃	80 to 90s
D	Main heating	if 260℃	20s～30s
E	Regular cooling	200℃ to 100℃	1℃/s ～ 4℃/s

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

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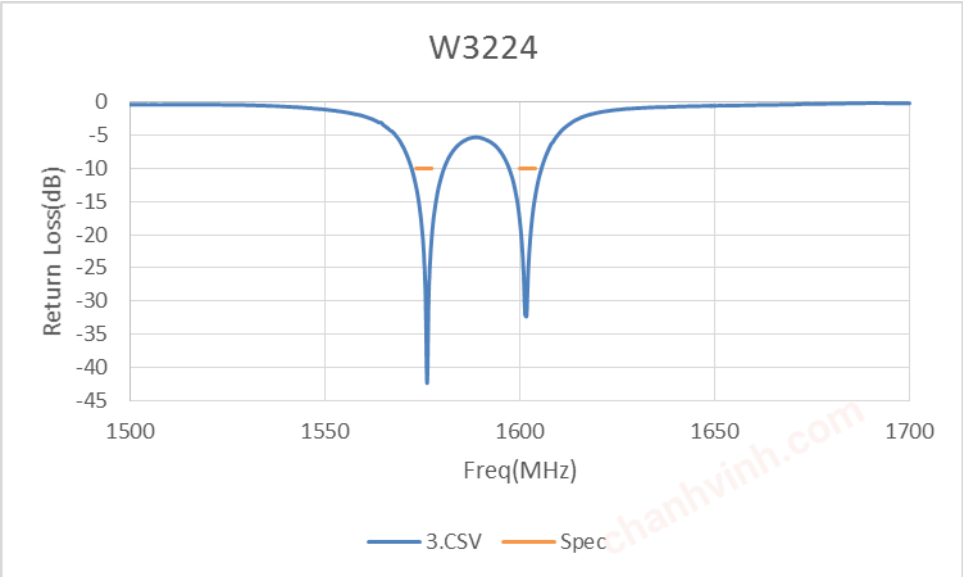
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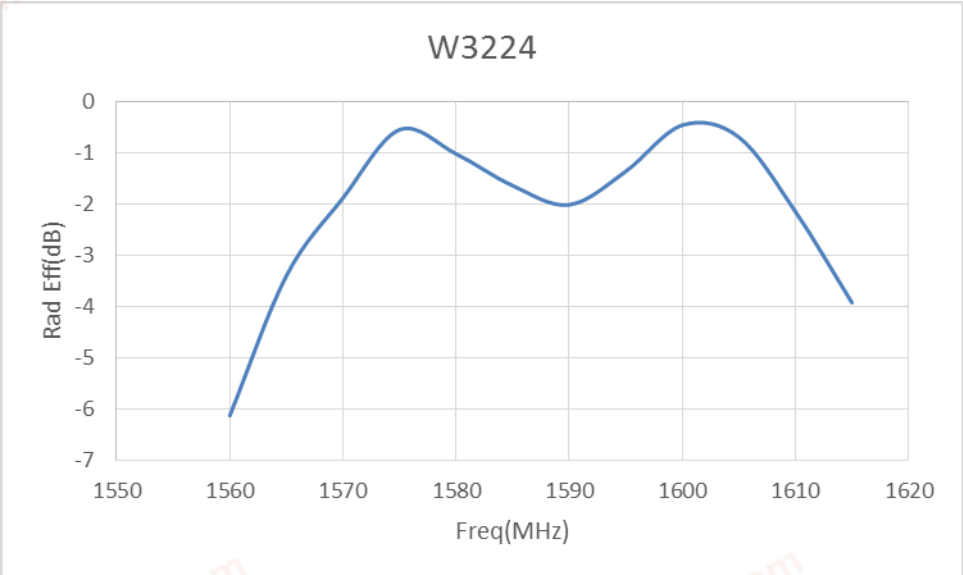
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CHARTS



Return Loss



Total Radiation Efficiency

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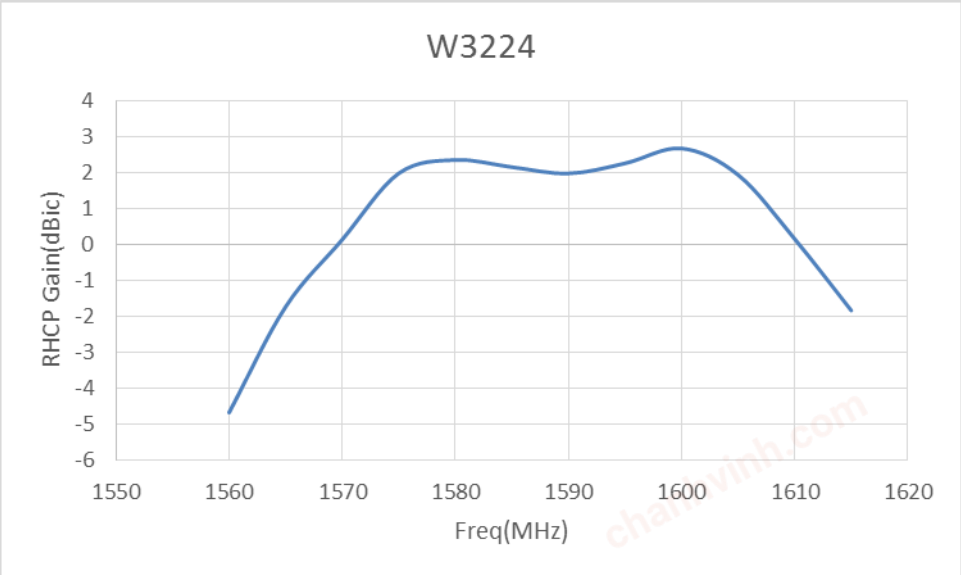
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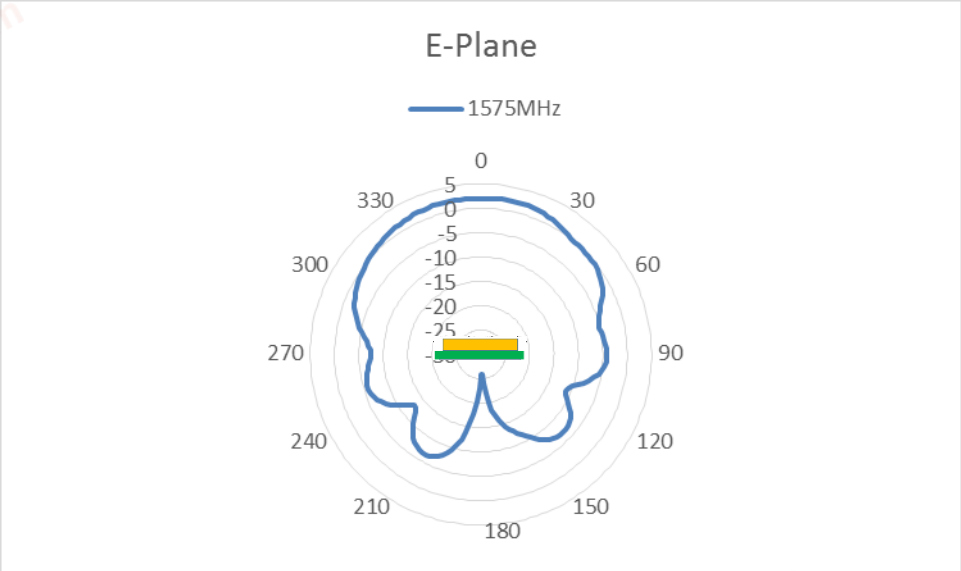
Description: 18x18x4mm GPS/Glonass SMD Mount

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CHARTS



Zenith RHCP Gain



GPS Radiation pattern on 70mmX70mm metal plane

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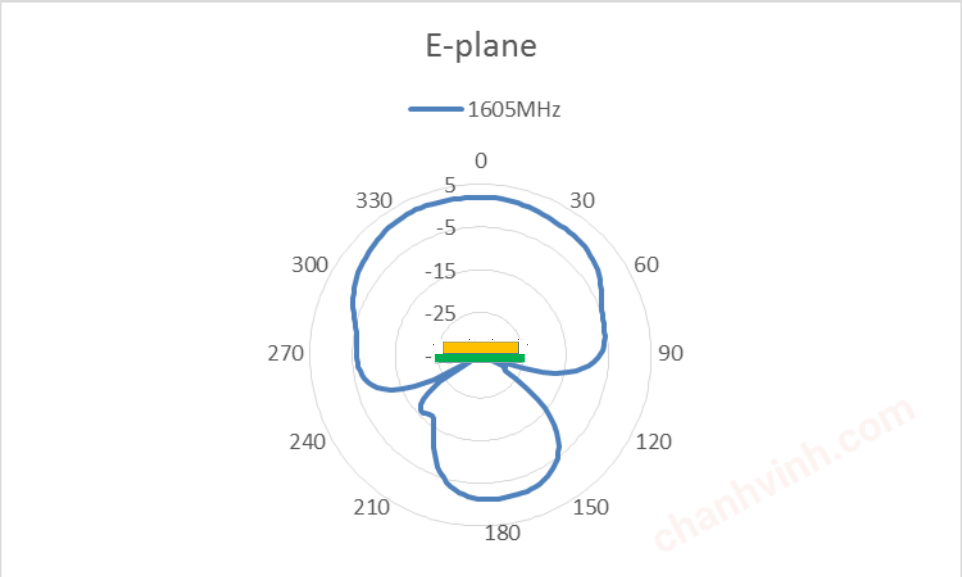
TECHNICAL DATA SHEET

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CHARTS



Glonass Radiation pattern on 70mmX70mm metal plane

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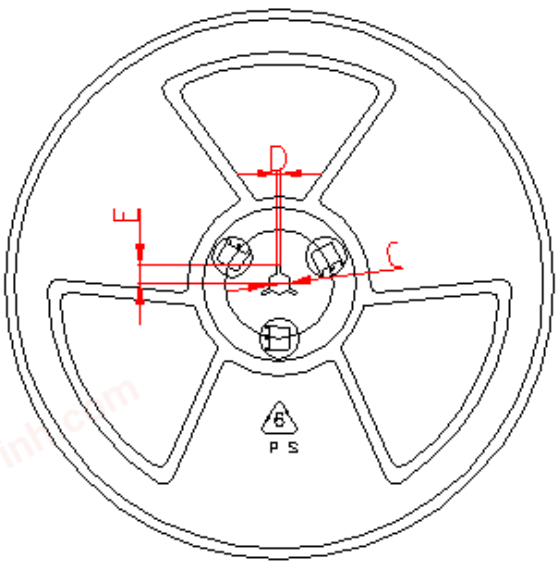
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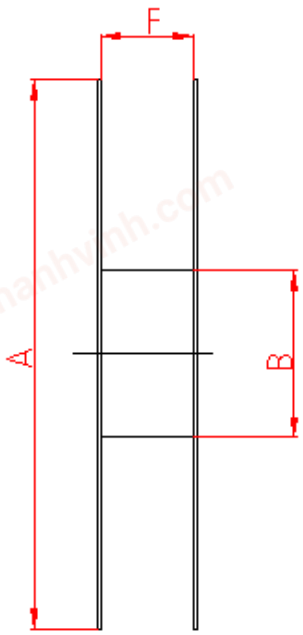
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PACKAGING

Reel & Tape packing
300PCS/reel





A	B	C	D	E	F
±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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