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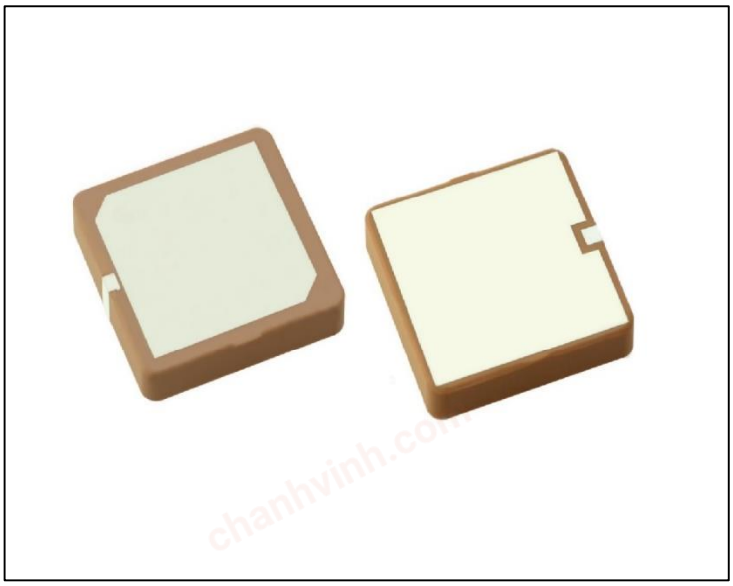
PulseLARSEN Antennas

TECHNICAL DATA SHEET

Description: 25x25x4mm GPS/Glonass SMD Mount

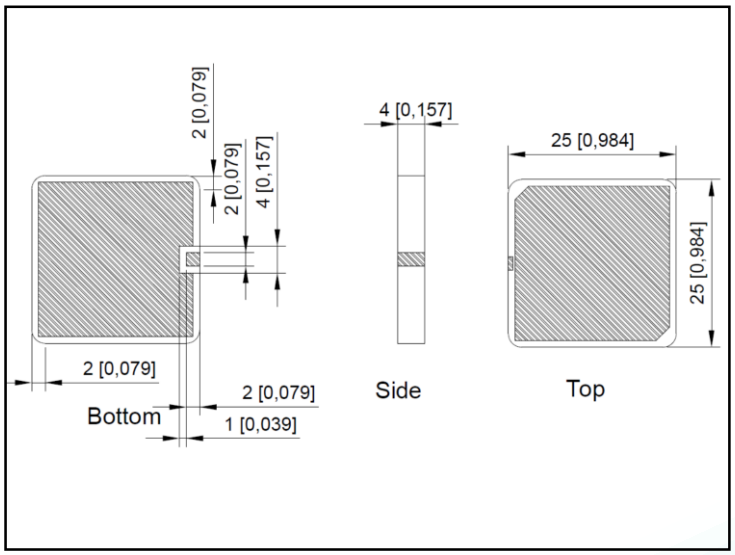
Series: Ceramic Patch

PART NUMBER: W3225



Features:

- 1575/1602MHz Dualband singe feed antenna
- RHCP Polarization
- Zenith Gain +3dBiC
- SMD compatible
- Tape & Reel packing



Applications:

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

All dimensions are in mm / inches

Issue: 1652

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PulseLARSEN Antennas

TECHNICAL DATA SHEET

Description: 25x25x4mm GPS/Glonass SMD Mount

Series: Ceramic Patch

PART NUMBER: W3225

ELECTRICAL SPECIFICATIONS

Frequency	1575.42±1.023/1602.5625±4 MHz
Nominal Impedance	50 Ω
Return Loss*	<-10 dB
RHCP Gain (typical)*	3 dBiC
Zenith Axial Ratio(typical)*	4.2
Polarization:	RHCP

* Measured on 70 x 70 mm reference board

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TECHNICAL DATA SHEET

Description: 25x25x4mm GPS/Glonass SMD Mount

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MECHANICAL SPECIFICATIONS

Material	Ceramic
Metallization	Silver
Size	25 x 24 x 4 mm
Weight	9.2 g
Mounting type	SMD

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C

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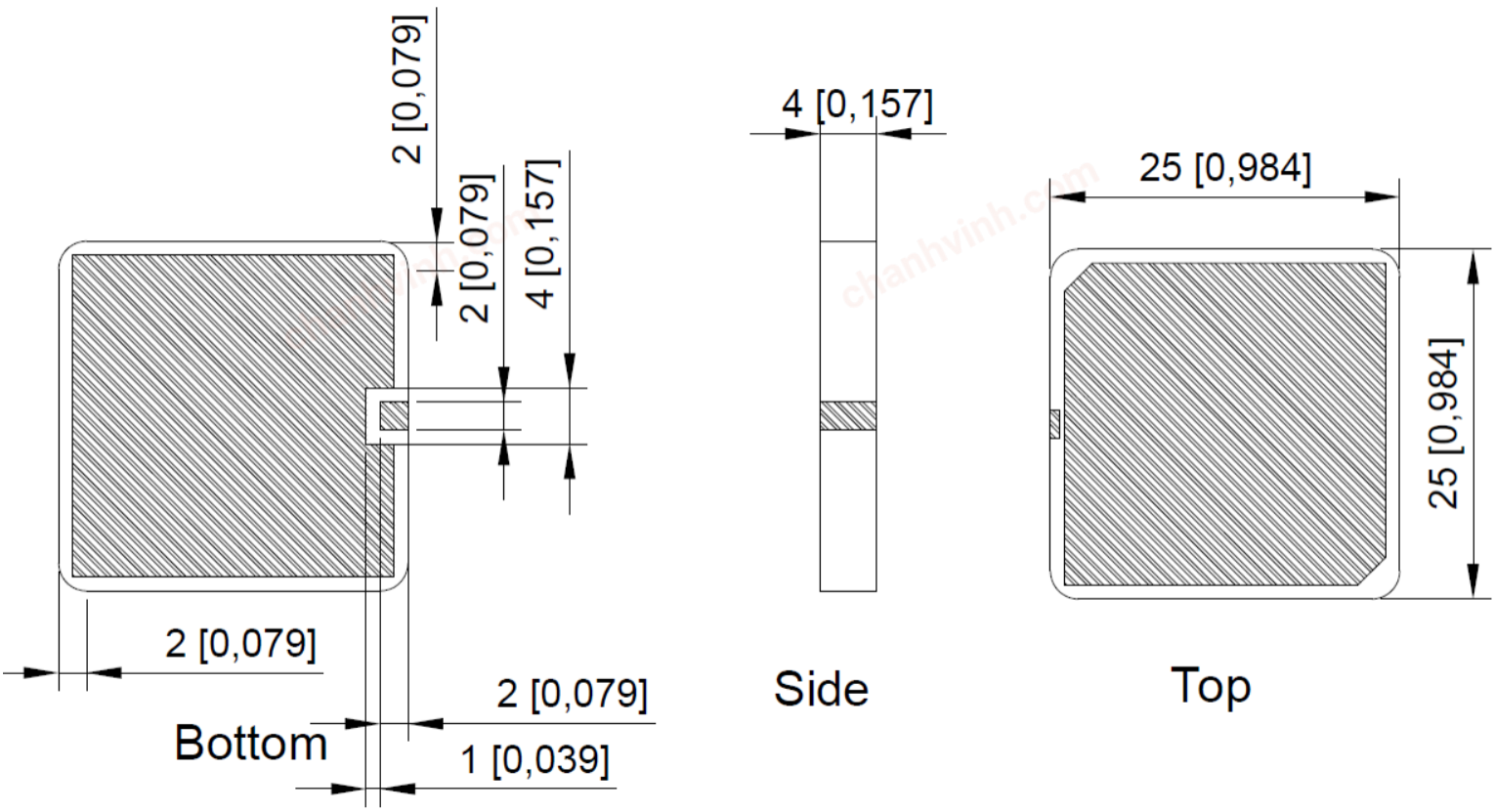
TECHNICAL DATA SHEET

Description: 25x25x4mm GPS/Glonass SMD Mount

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MECHANICAL DRAWING



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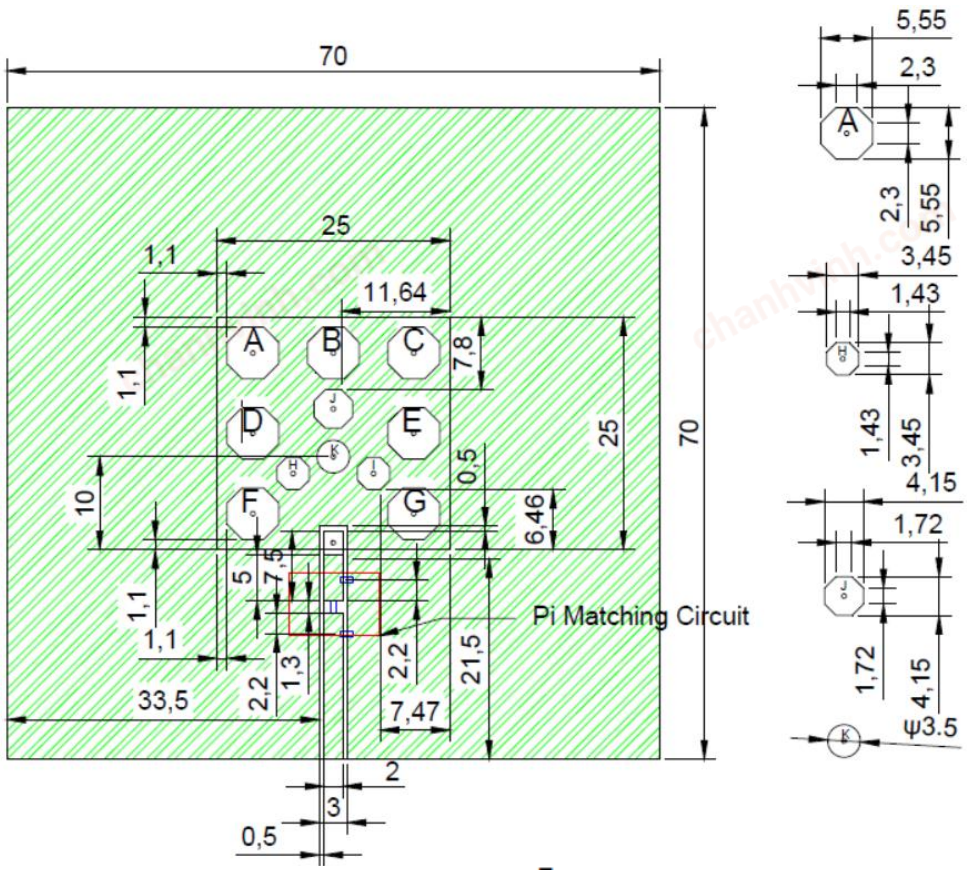
Description: 25x25x4mm GPS/Glonass SMD Mount

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OTHER SPECIFICATIONS

Test Condition Ground Plane (Example for PCB 1 mm)



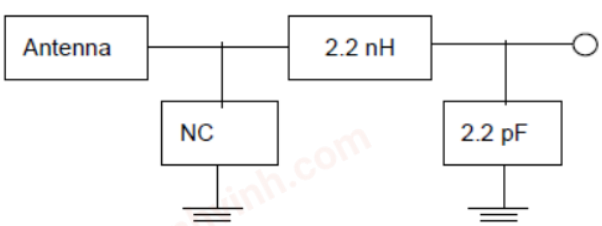
Top

A.B.C.D.E.F.G. are same soldering pads.
H.I are same soldering pads.
Bottom side needs π matching circuit.
Tolerance : ± 0.2 mm

Unit : mm

A.B.C.D.E.F.G.H.I.J.K are ground pads

π matching circuit :



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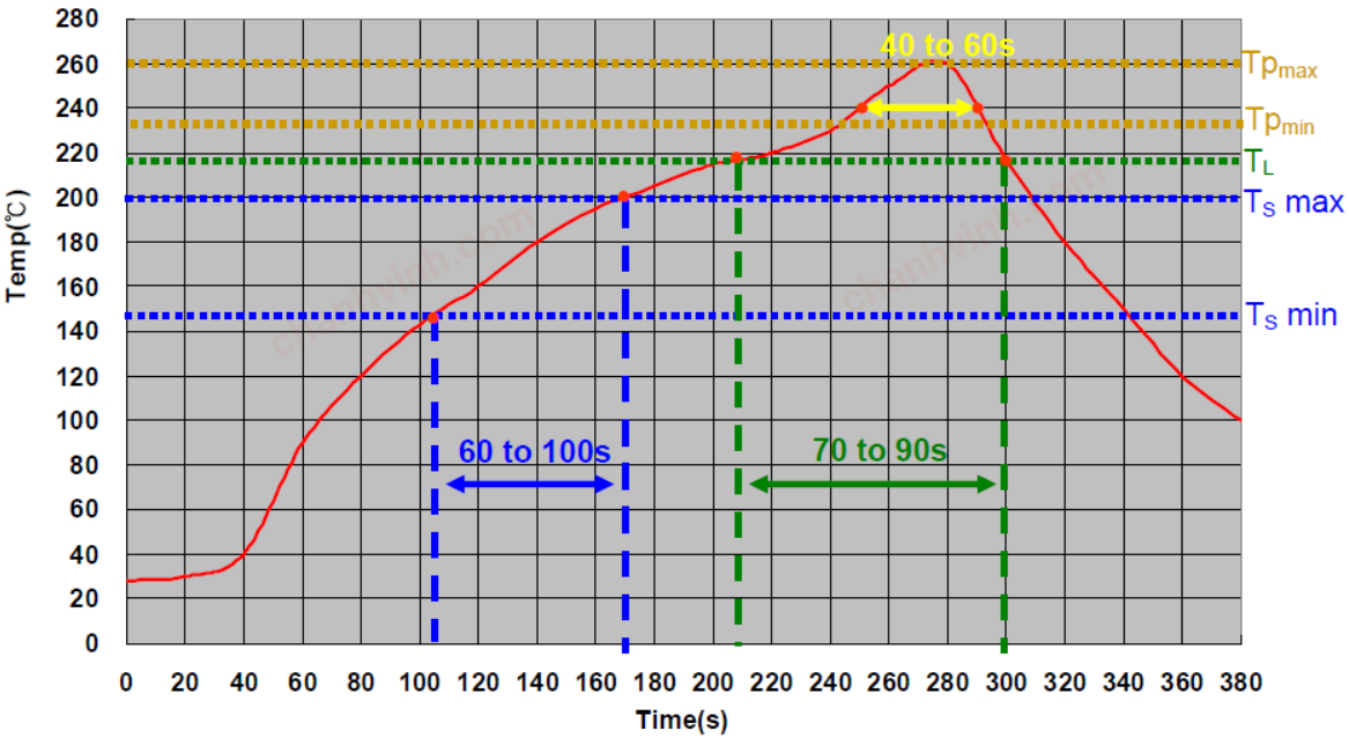
Description: 25x25x4mm GPS/Glonass SMD Mount

Series: Ceramic Patch

PART NUMBER: W3225

OTHER SPECIFICATIONS

Recommended Reflow Soldering Profile



Ts Min	150℃
Ts Max	200℃
Time Tsmin to Tsmax	60s to 100s
Liquidus	217℃
Time above Liquidus	70 to 90s
Minimum Peak Temperature	235℃
Maximum Peak Temperature	260℃

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

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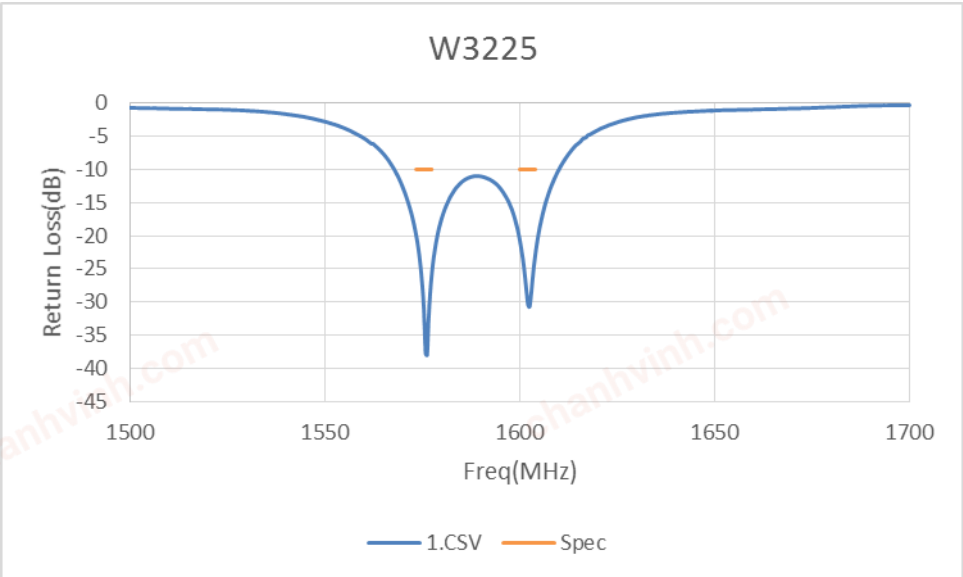
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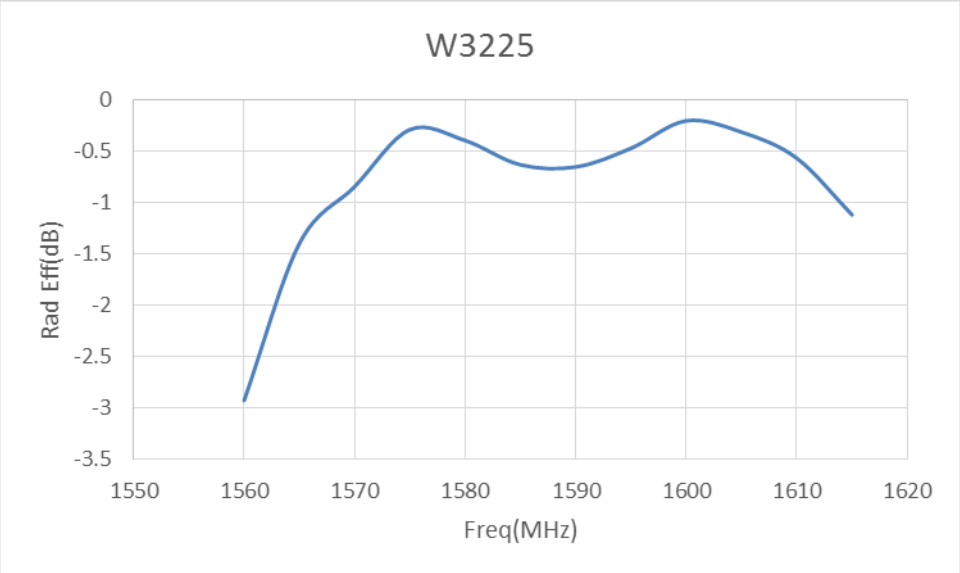
Series: Ceramic Patch

PART NUMBER: W3225

CHARTS



Return Loss



Total Radiation Efficiency

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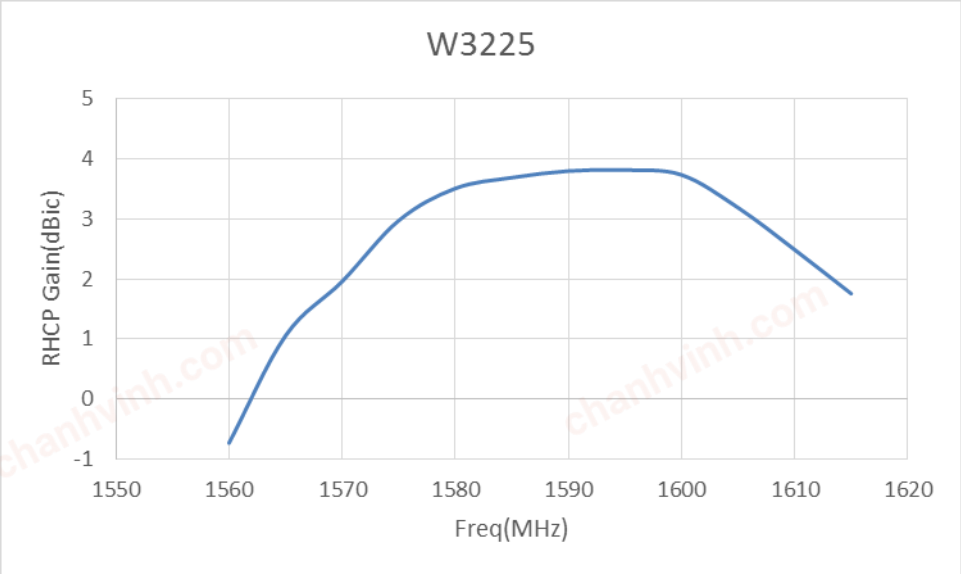
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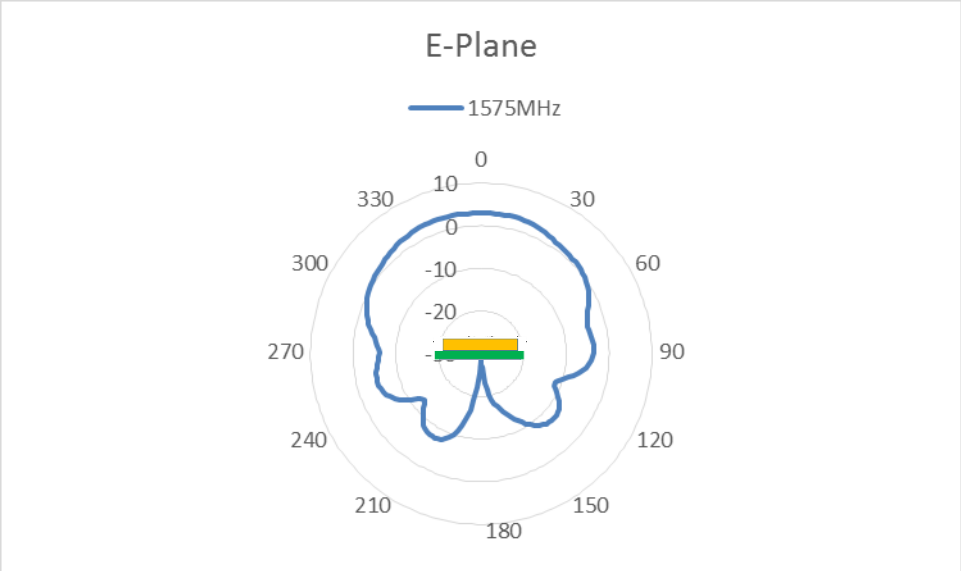
Series: Ceramic Patch

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CHARTS



Zenith RHCP Gain



GPS Radiation pattern on 70mmX70mm metal plane

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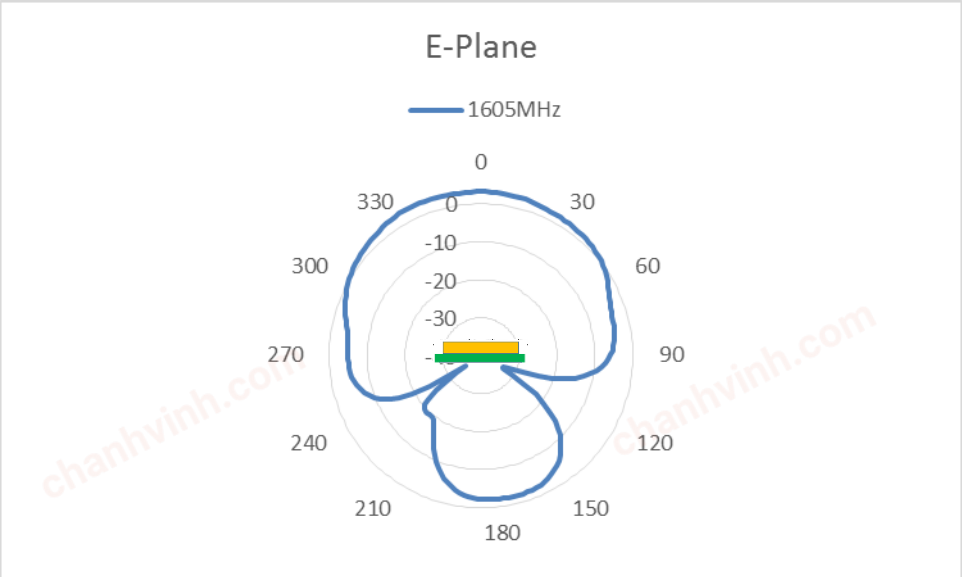
TECHNICAL DATA SHEET

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CHARTS



Glonass Radiation pattern on 70mmX70mm metal plane

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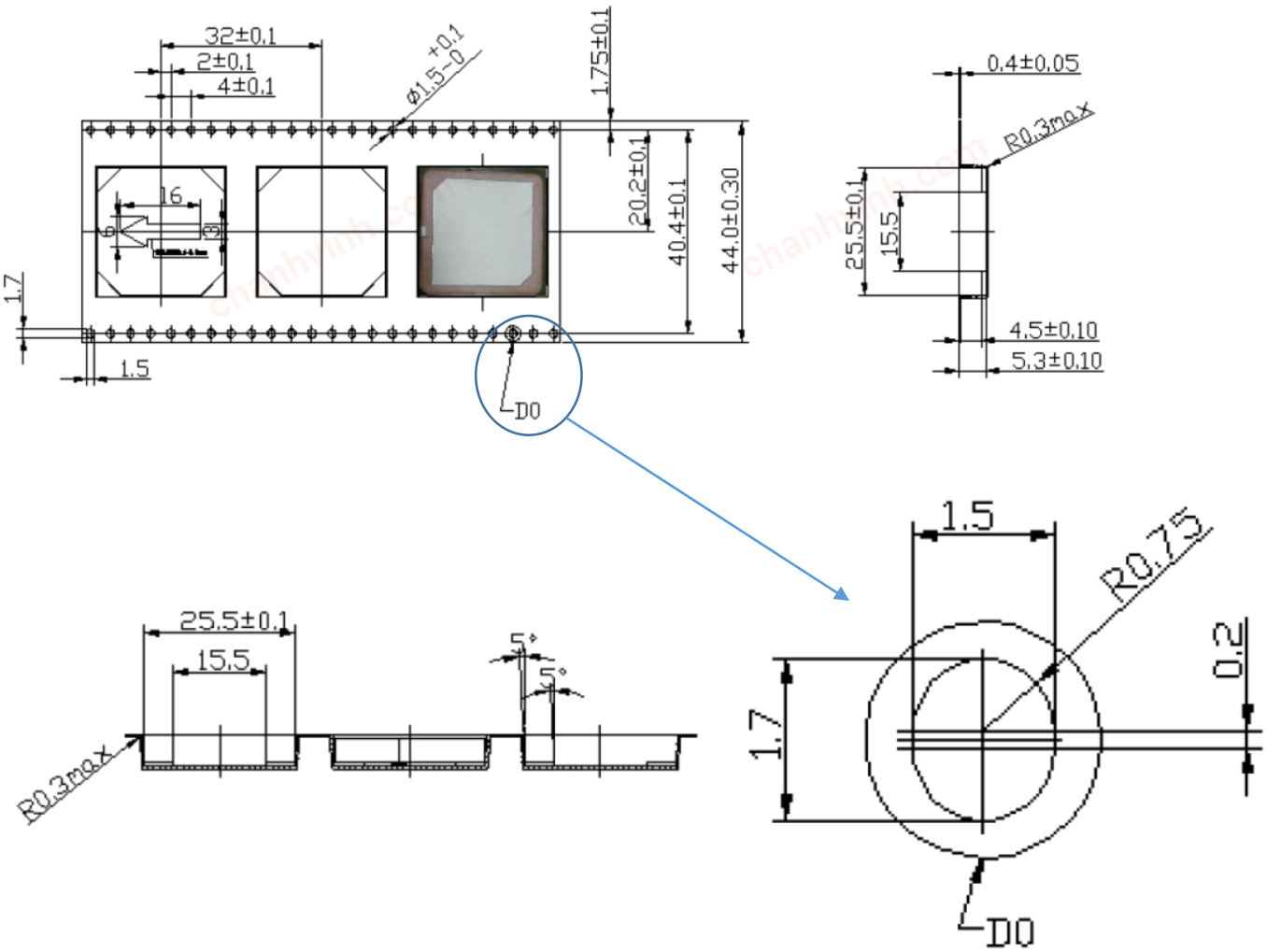
Description: 25x25x4mm GPS/Glonass SMD Mount

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PACKAGING

Tape packing
200PCS/reel



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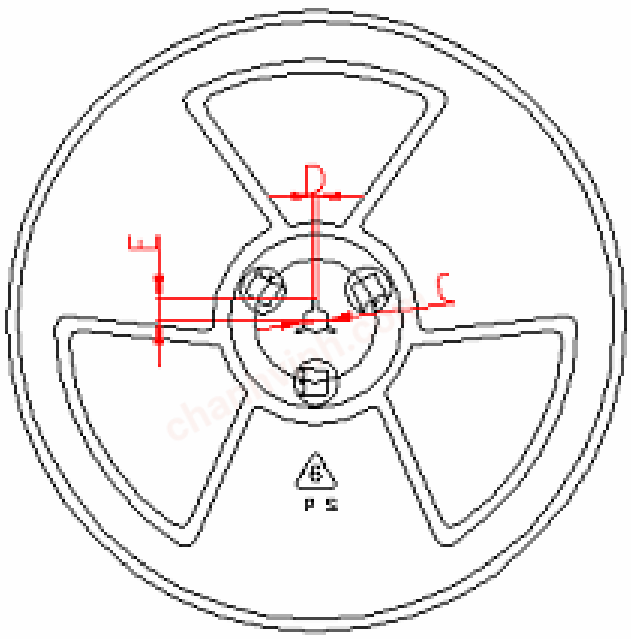
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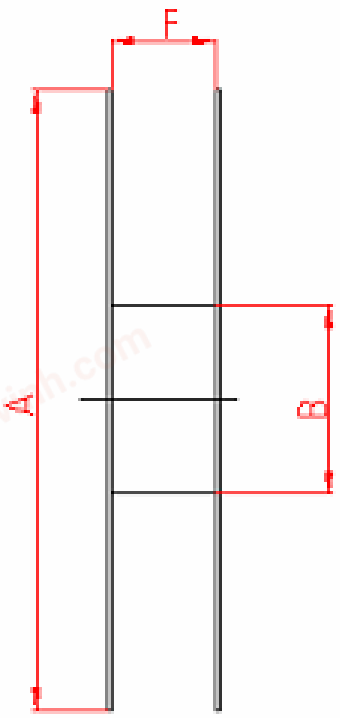
TECHNICAL DATA SHEET

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A	B	C	D	E	F
±2.0	±4.0	±0.2	±0.2	±0.25	±2.0
330	100	13.2	2	10.75	44.4

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