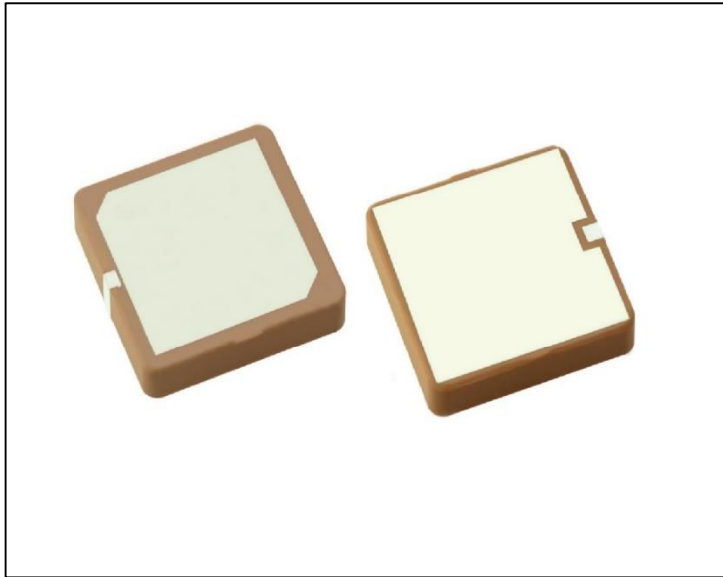


Description: 25x25x4mm GPS/Glonass SMD Mount

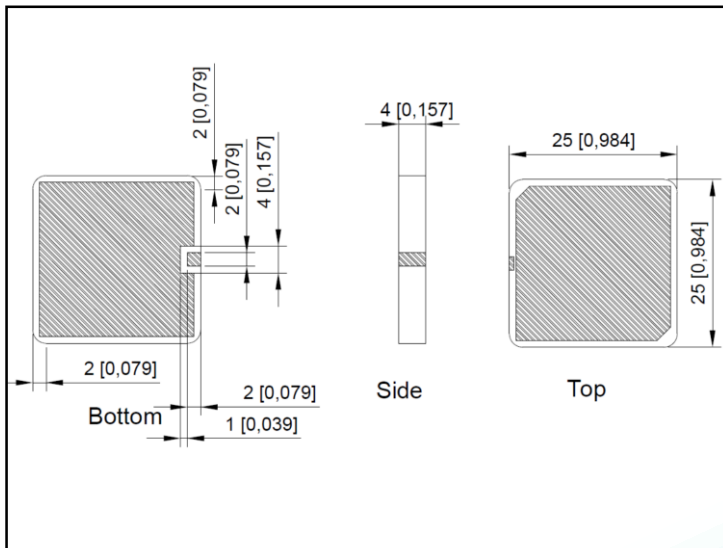
Series: Ceramic Patch

PART NUMBER: W3225



Features:

- 1575/1602MHz Dualband single 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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Pulse (Suzhou) Wireless Products Co, Inc.
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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



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

Description: 25x25x4mm GPS/Glonass SMD Mount

Series: Ceramic Patch

PART NUMBER: W3225

MECHANICAL SPECIFICATIONS

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

ENVIRONMENTAL SPECIFICATIONS

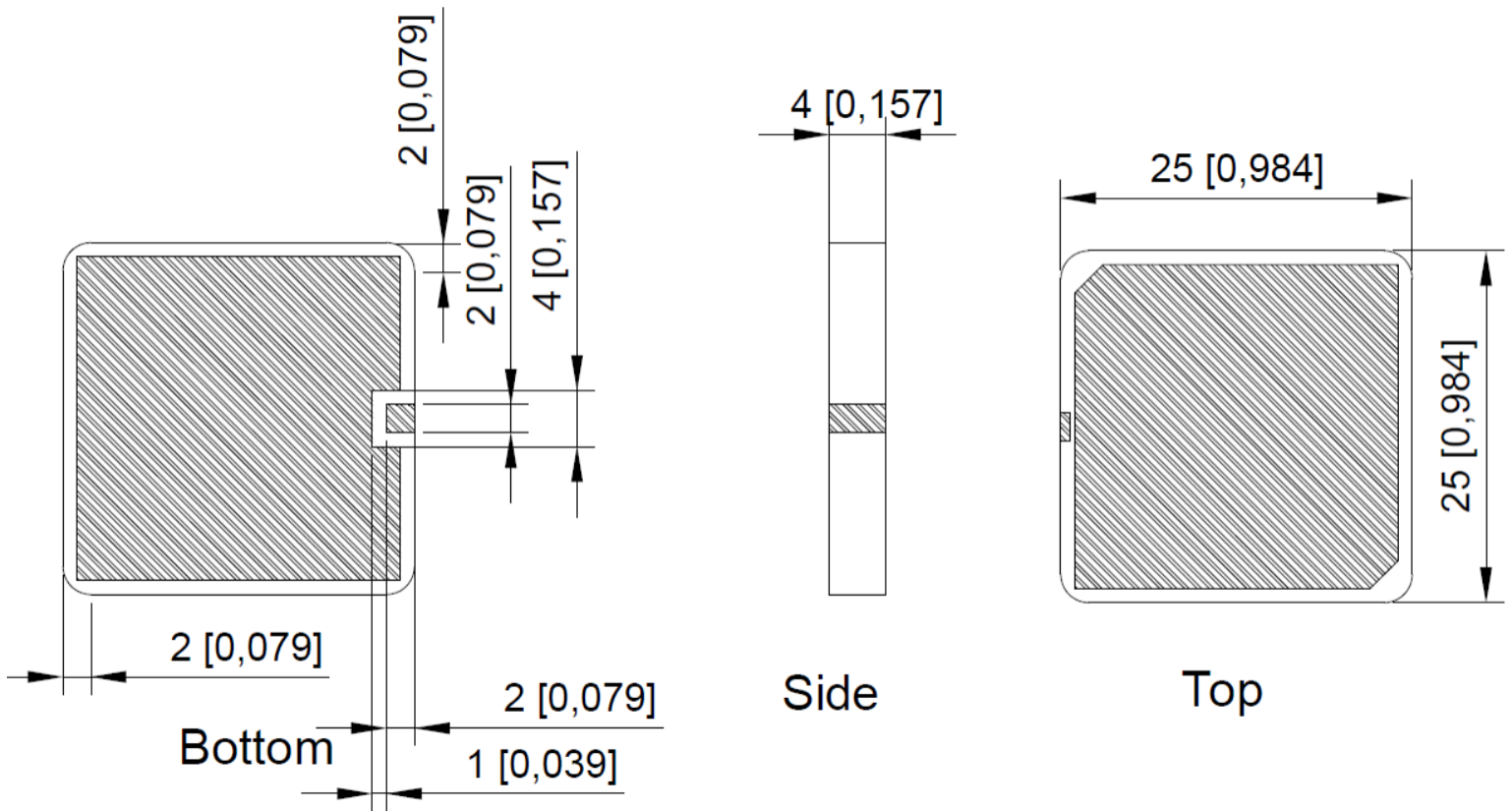
Operating temperature	-40/+85 ° C
-----------------------	-------------

Description: 25x25x4mm GPS/Glonass SMD Mount

Series: Ceramic Patch

PART NUMBER: W3225

MECHANICAL DRAWING



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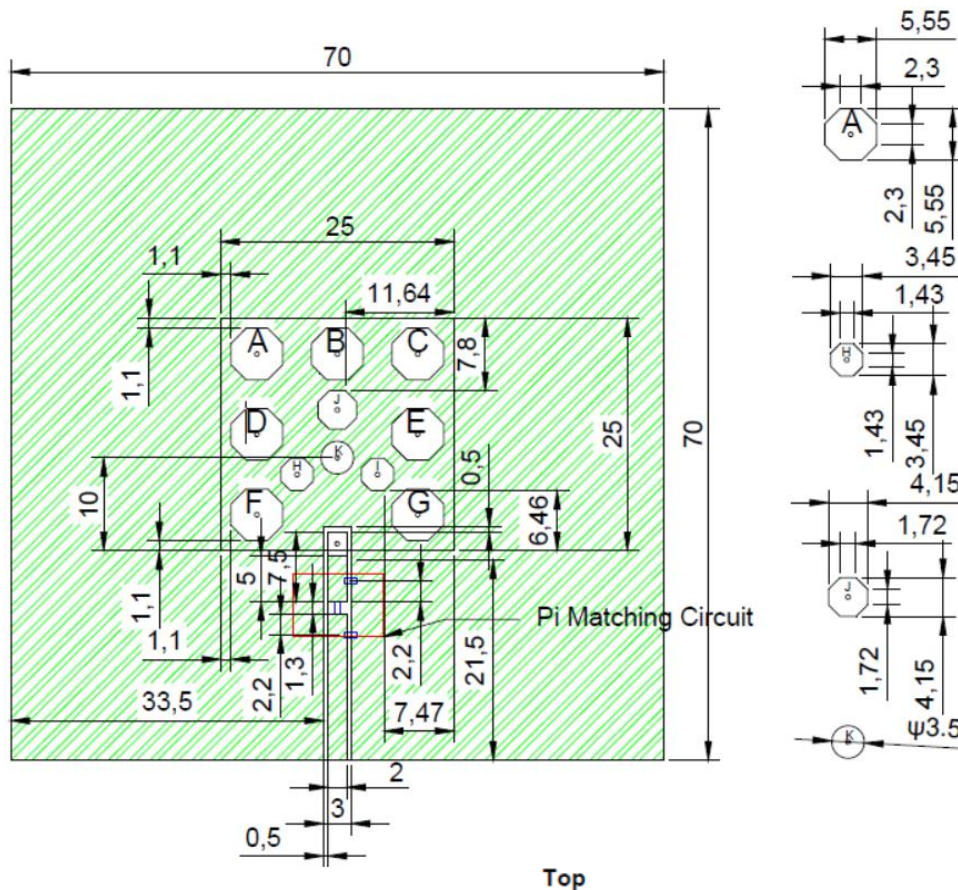
Description: 25x25x4mm GPS/Glonass SMD Mount

Series: Ceramic Patch

PART NUMBER: W3225

OTHER SPECIFICATIONS

Test Condition Ground Plane (Example for PCB 1 mm)



A.B.C.D.E.F.G. are same soldering pads.

H.I are same soldering pads.

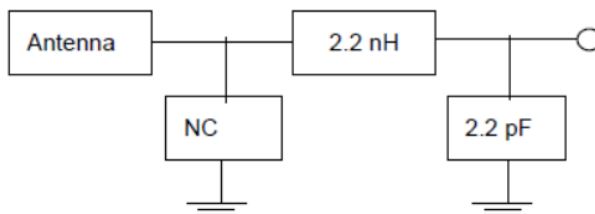
Bottom side needs π matching circuit.

Tolerance : ± 0.2 mm

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

Unit : mm

π matching circuit :



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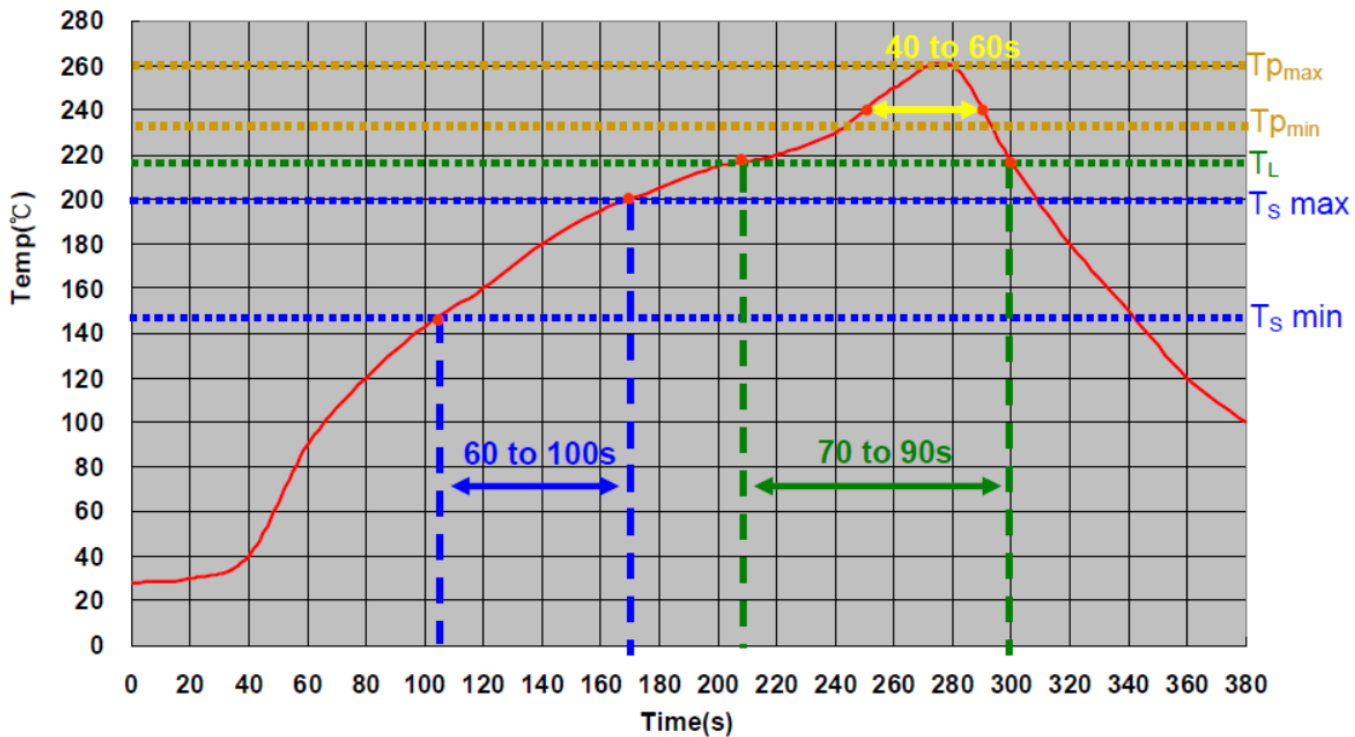
Description: 25x25x4mm GPS/Glonass SMD Mount

Series: Ceramic Patch

PART NUMBER: W3225

OTHER SPECIFICATIONS

Recommended Reflow Soldering Profile



Ts Min	150°C
Ts Max	200°C
Time Tsm in to Tsmax	60s to 100s
Liquidus	217°C
Time above Liquidus	70 to 90s
Minimum Peak Temperature	235°C
Maximum Peak Temperature	260°C

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

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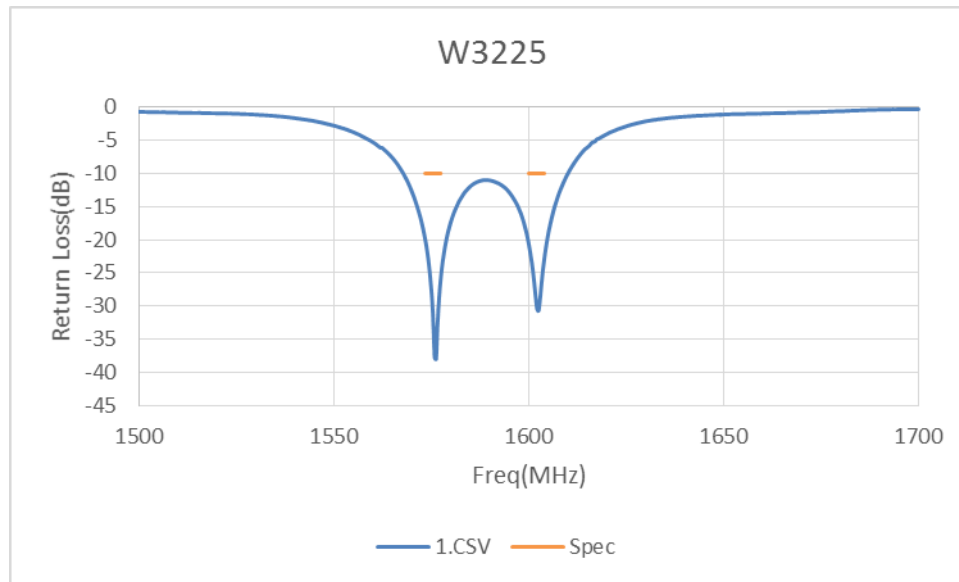
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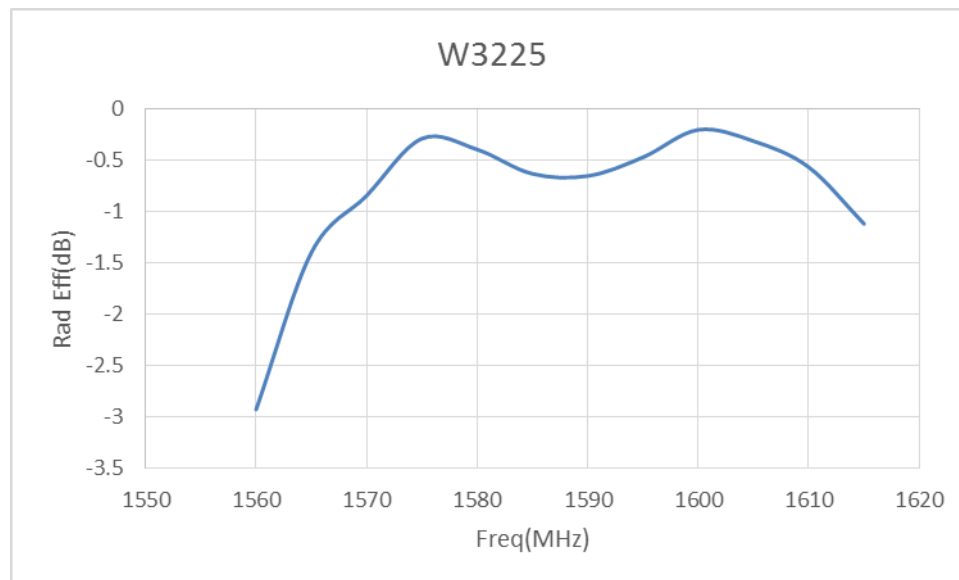
Series: Ceramic Patch

PART NUMBER: W3225

CHARTS



Return Loss



Total Radiation Efficiency

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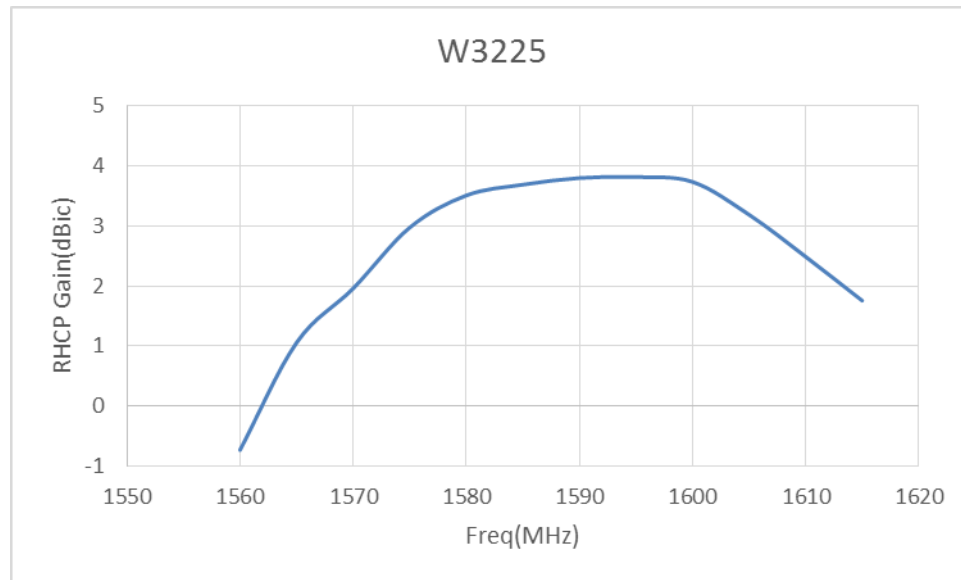
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Description: 25x25x4mm GPS/Glonass SMD Mount

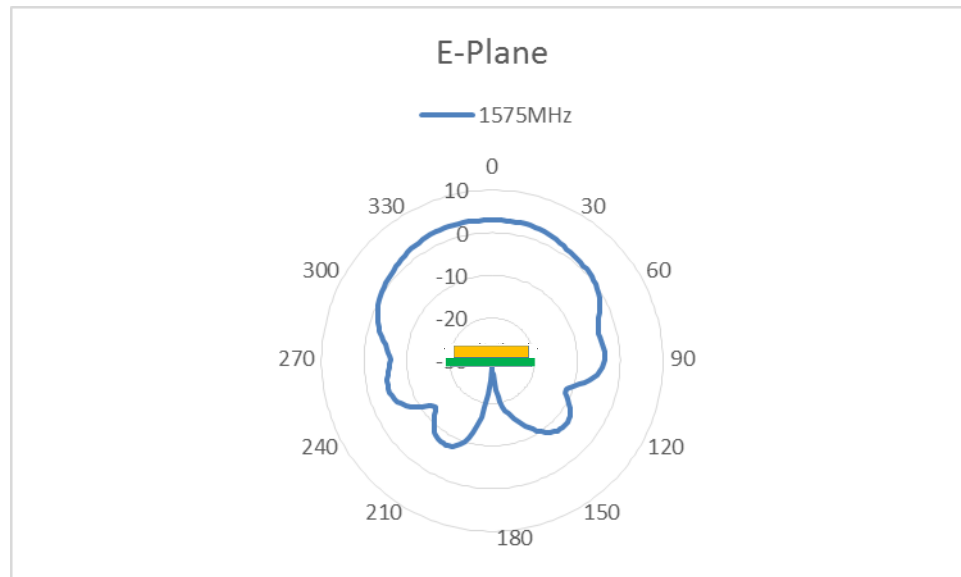
Series: Ceramic Patch

PART NUMBER: W3225

CHARTS



Zenith RHCP Gain



GPS Radiation pattern on 70mmX70mm metal plane

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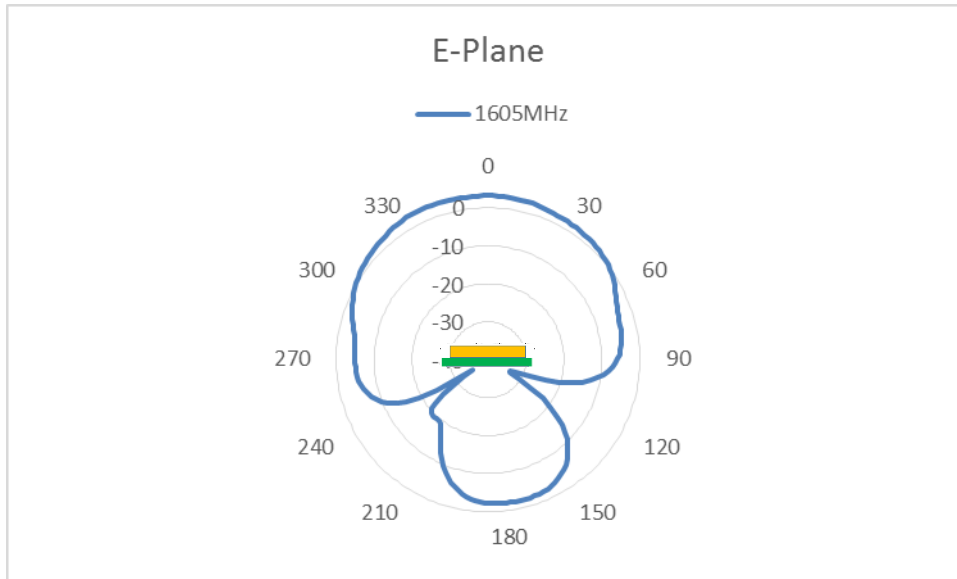
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Description: 25x25x4mm GPS/Glonass SMD Mount

Series: Ceramic Patch

PART NUMBER: W3225

CHARTS



Glonass Radiation pattern on 70mmX70mm metal plane

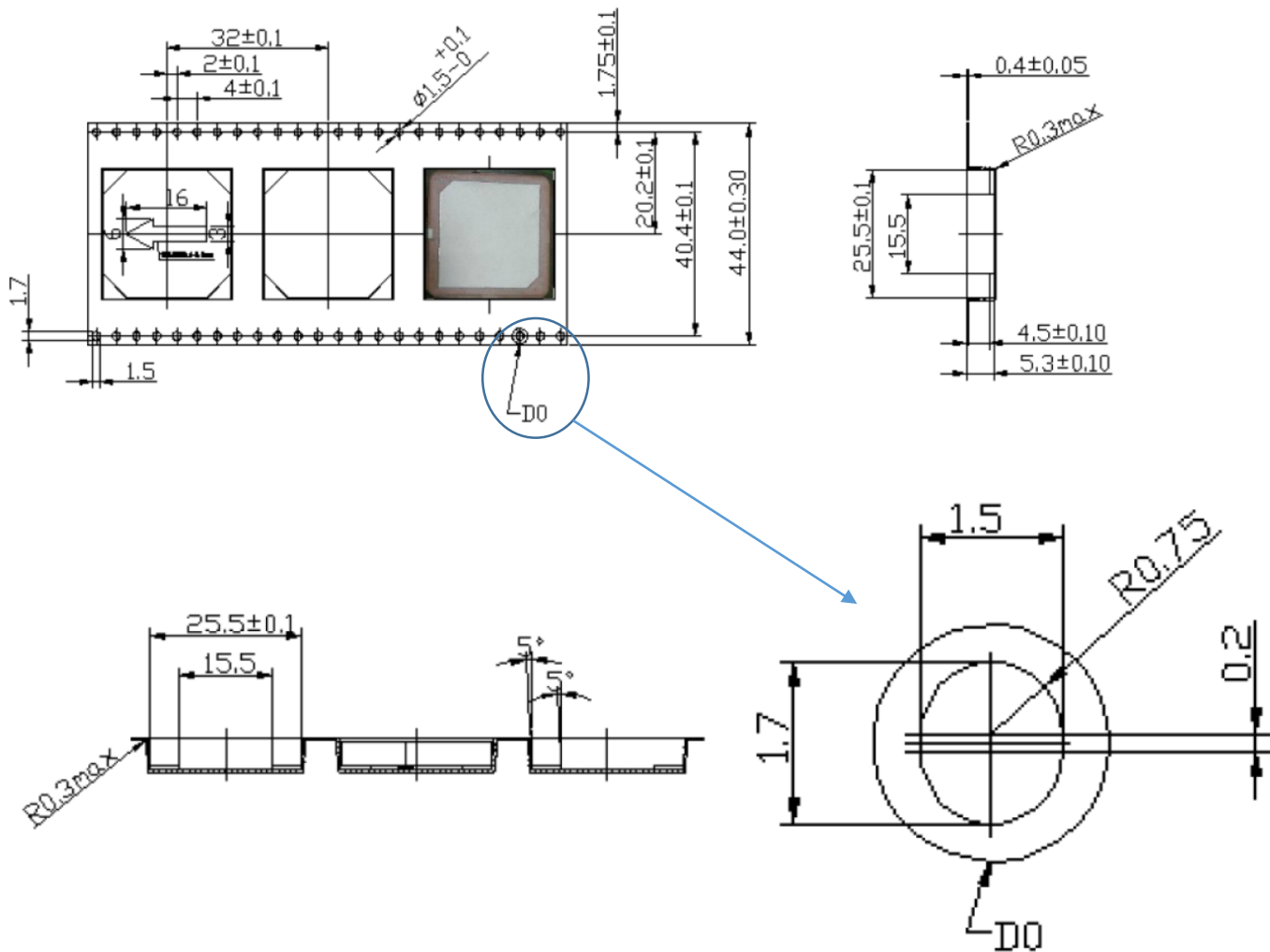
Description: 25x25x4mm GPS/Glonass SMD Mount

Series: Ceramic Patch

PART NUMBER: W3225

PACKAGING

Tape packing
200PCS/reel



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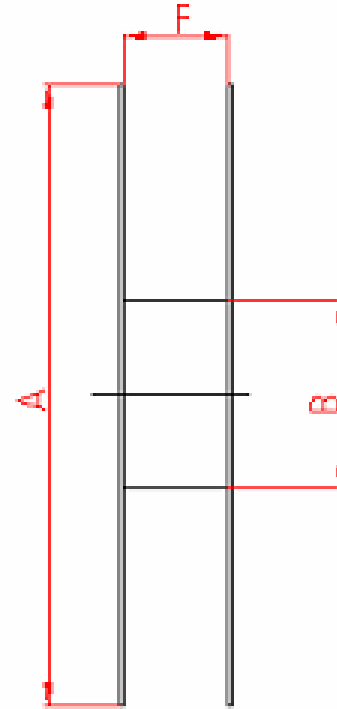
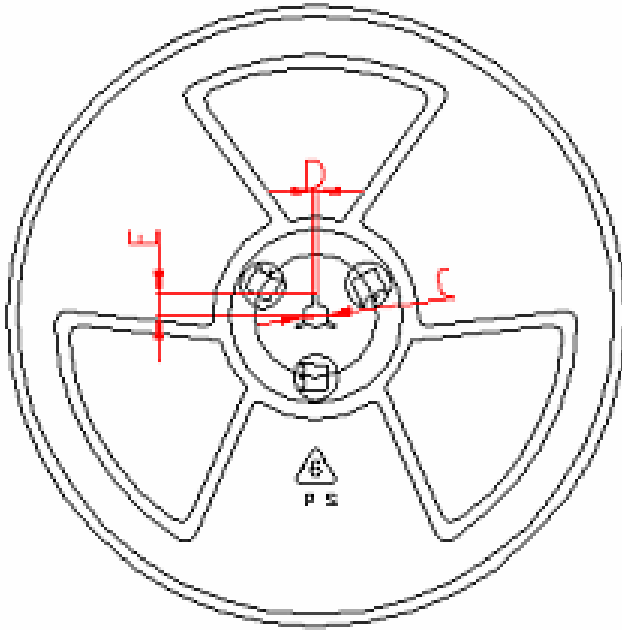
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Description: 25x25x4mm GPS/Glonass SMD Mount

Series: Ceramic Patch

PART NUMBER: W3225



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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