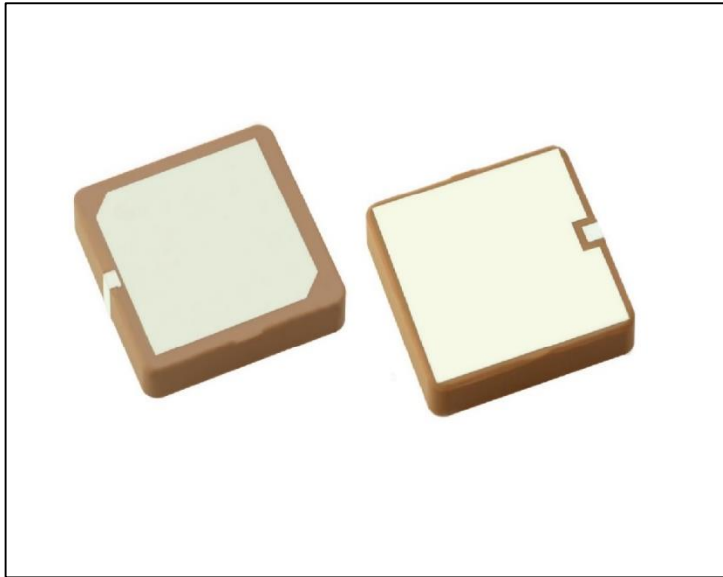


**Description:** 25x25x4mm GPS/Glonass SMD Mount

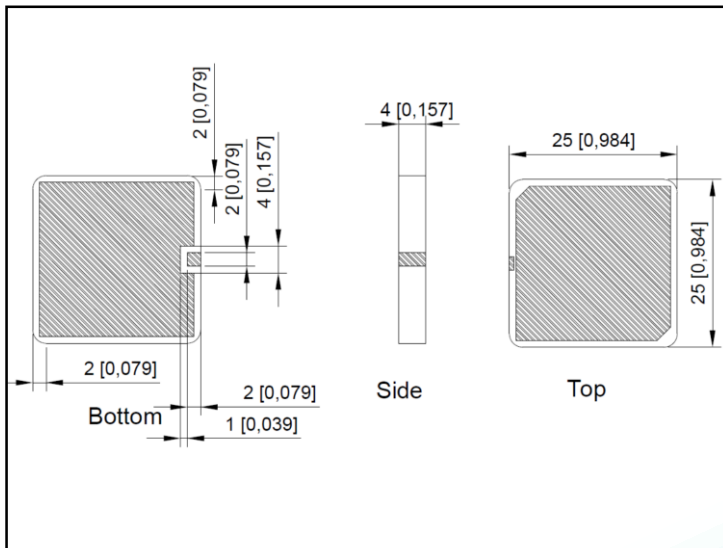
**Series:** Ceramic Patch

**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

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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

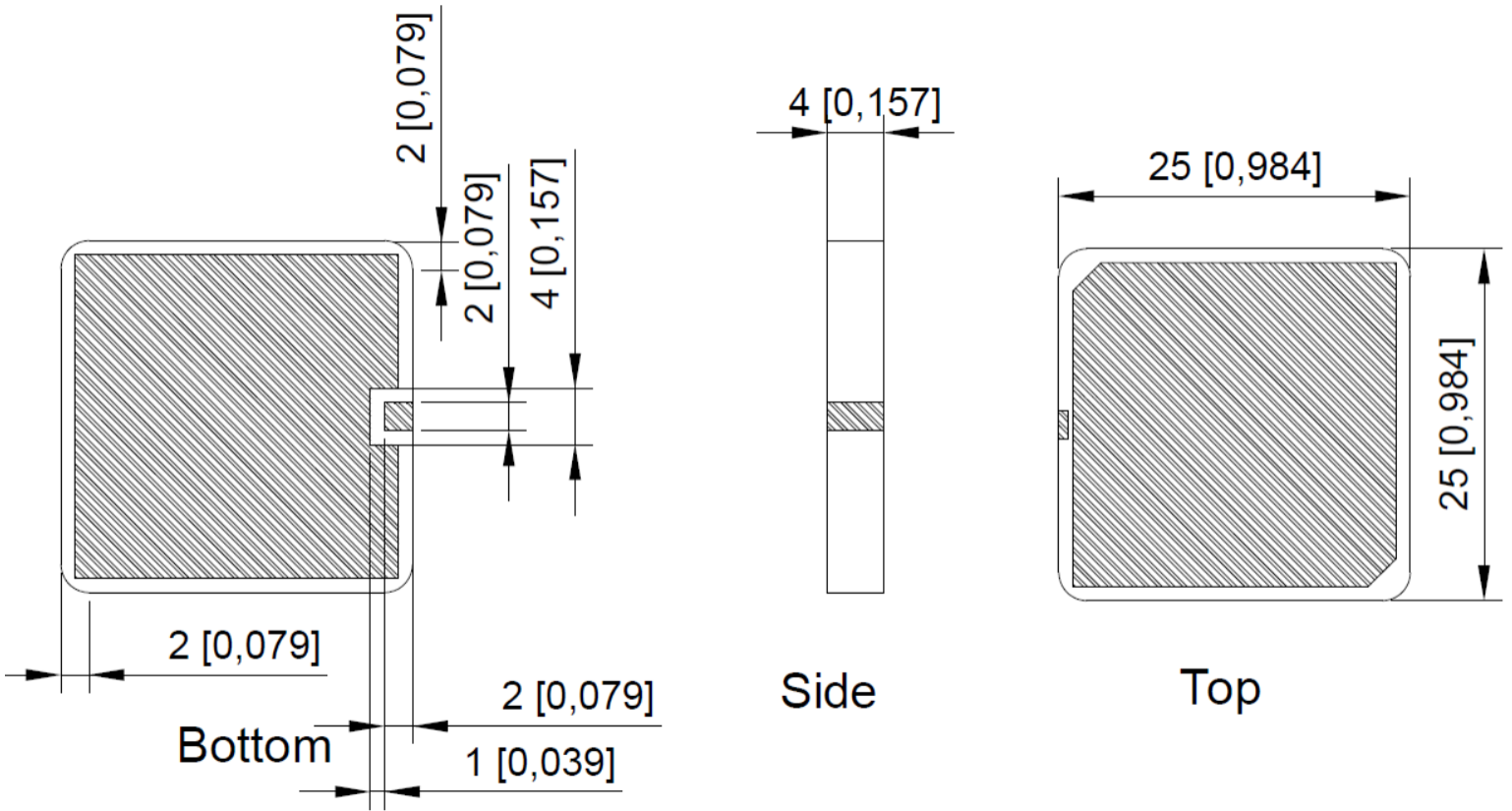
Operating temperature	-40/+85 ° C
-----------------------	-------------

**Description:** 25x25x4mm GPS/Glonass SMD Mount

**Series:** Ceramic Patch

**PART NUMBER:** W3225

**MECHANICAL DRAWING**



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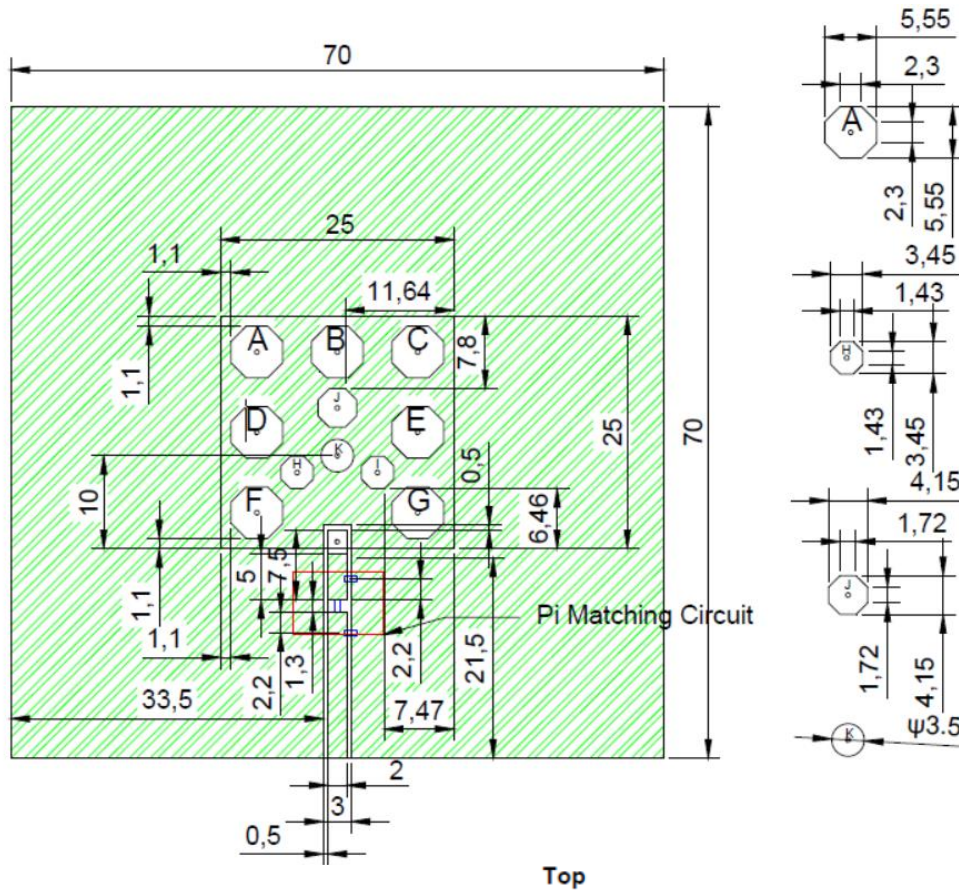
**Description:** 25x25x4mm GPS/Glonass SMD Mount

**Series:** Ceramic Patch

**PART NUMBER:** W3225

**OTHER SPECIFICATIONS**

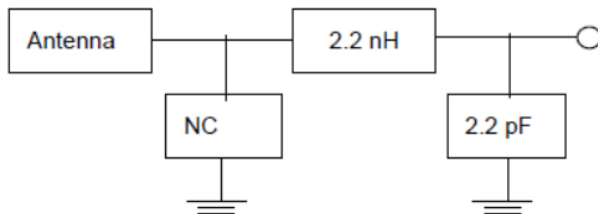
**Test Condition Ground Plane (Example for PCB 1 mm)**



A.B.C.D.E.F.G. are same soldering pads.  
 H.I are same soldering pads.  
 Bottom side needs  $\pi$  matching circuit.  
 Tolerance :  $\pm 0.2$  mm  
 A.B.C.D.E.F.G.H.I.J.K are ground pads

Unit : mm

$\pi$  matching circuit :



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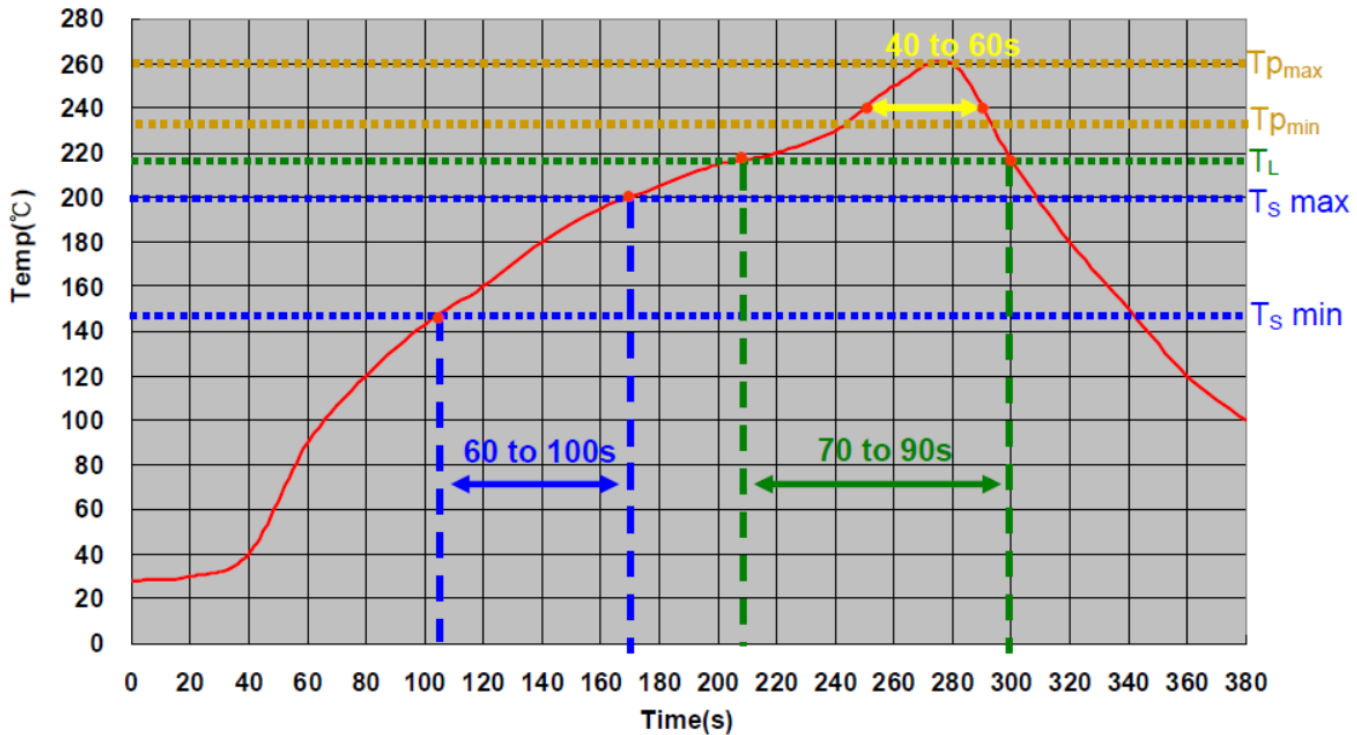
**Description:** 25x25x4mm GPS/Glonass SMD Mount

**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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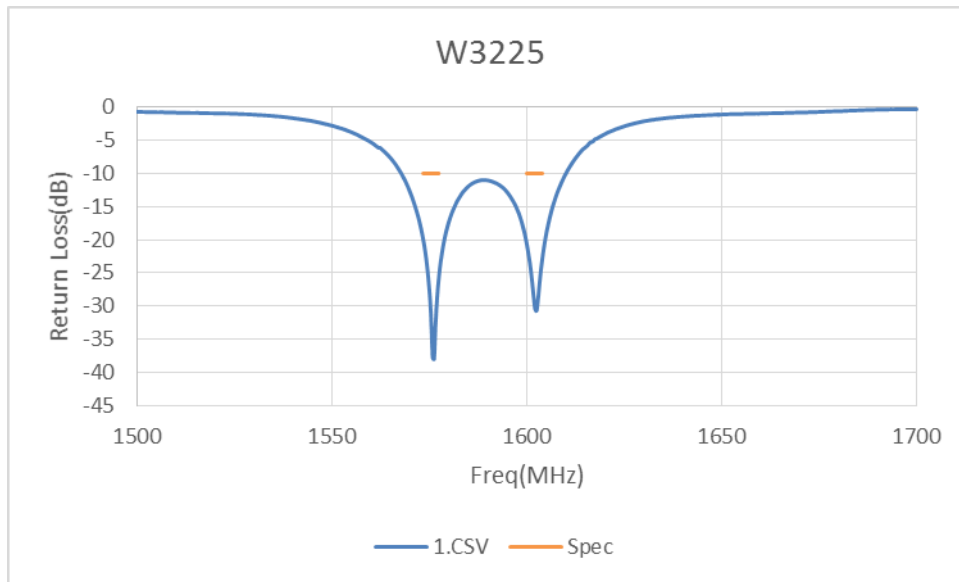
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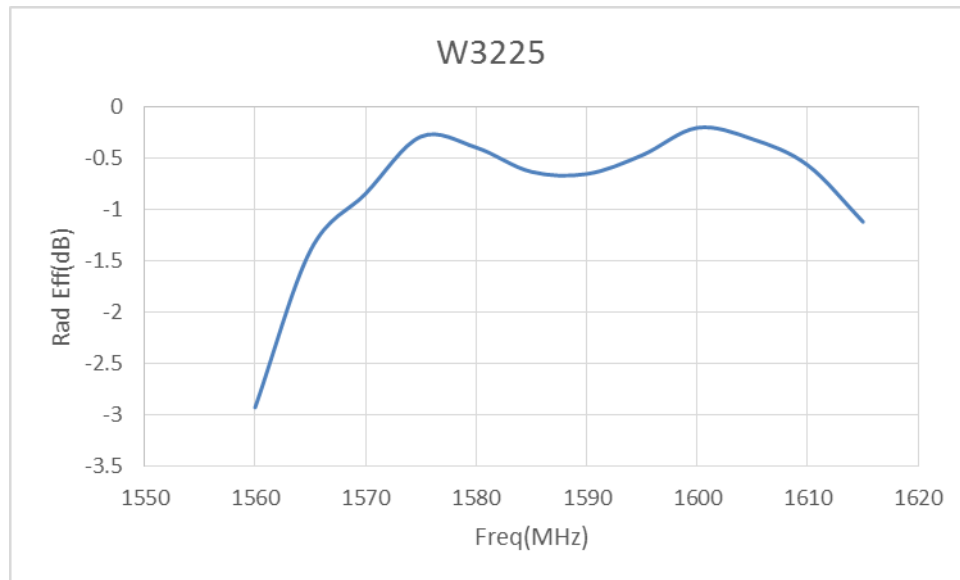
**Series:** Ceramic Patch

**PART NUMBER:** W3225

CHARTS



Return Loss



Total Radiation Efficiency

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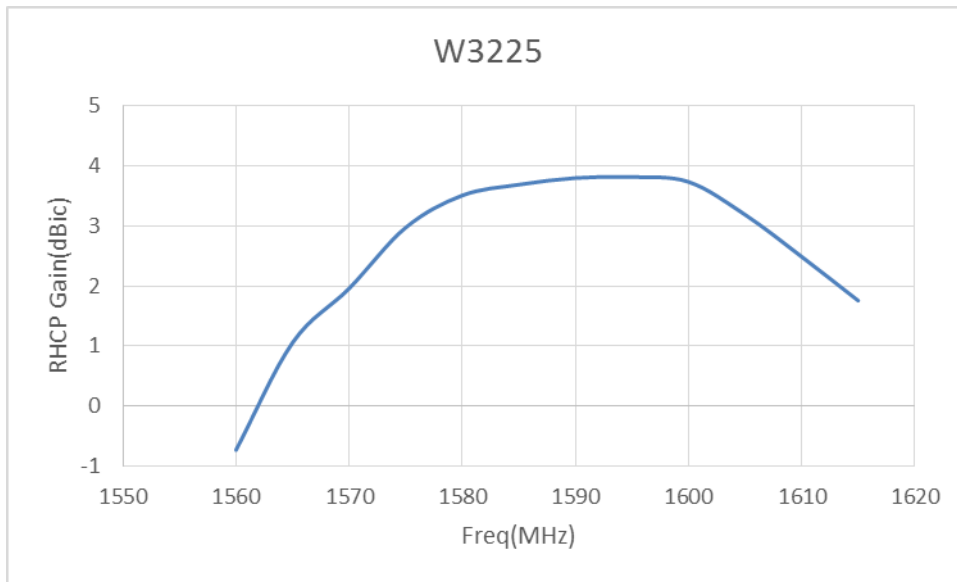
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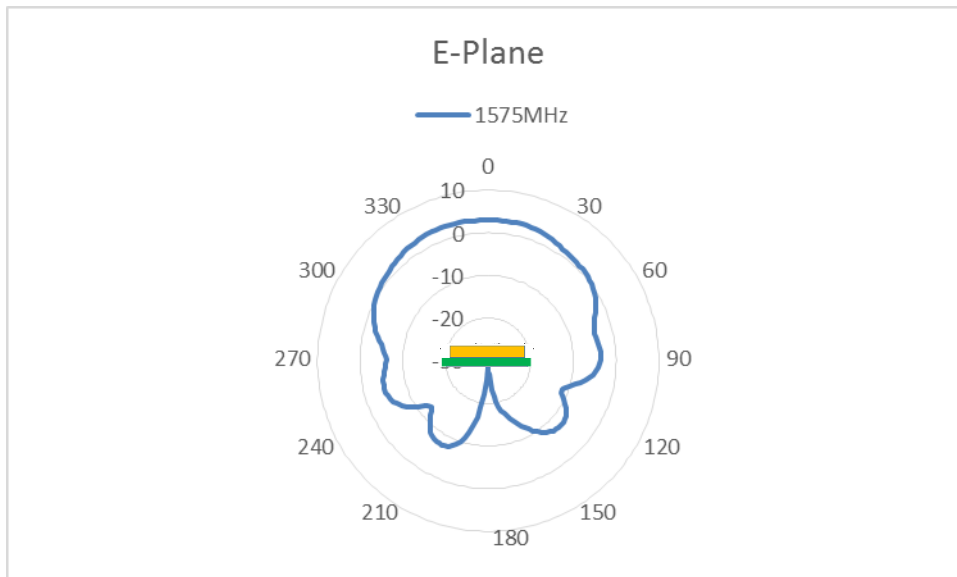
**Series:** Ceramic Patch

**PART NUMBER:** W3225

**CHARTS**



**Zenith RHCP Gain**



**GPS Radiation pattern on 70mmX70mm metal plane**

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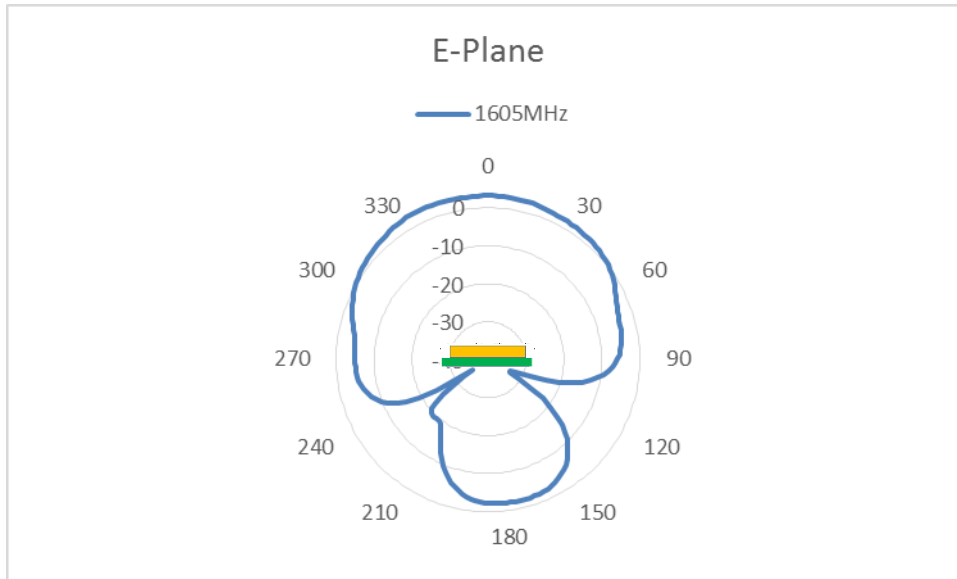


**Description:** 25x25x4mm GPS/Glonass SMD Mount

**Series:** Ceramic Patch

**PART NUMBER:** W3225

**CHARTS**



Glonass Radiation pattern on 70mmX70mm metal plane

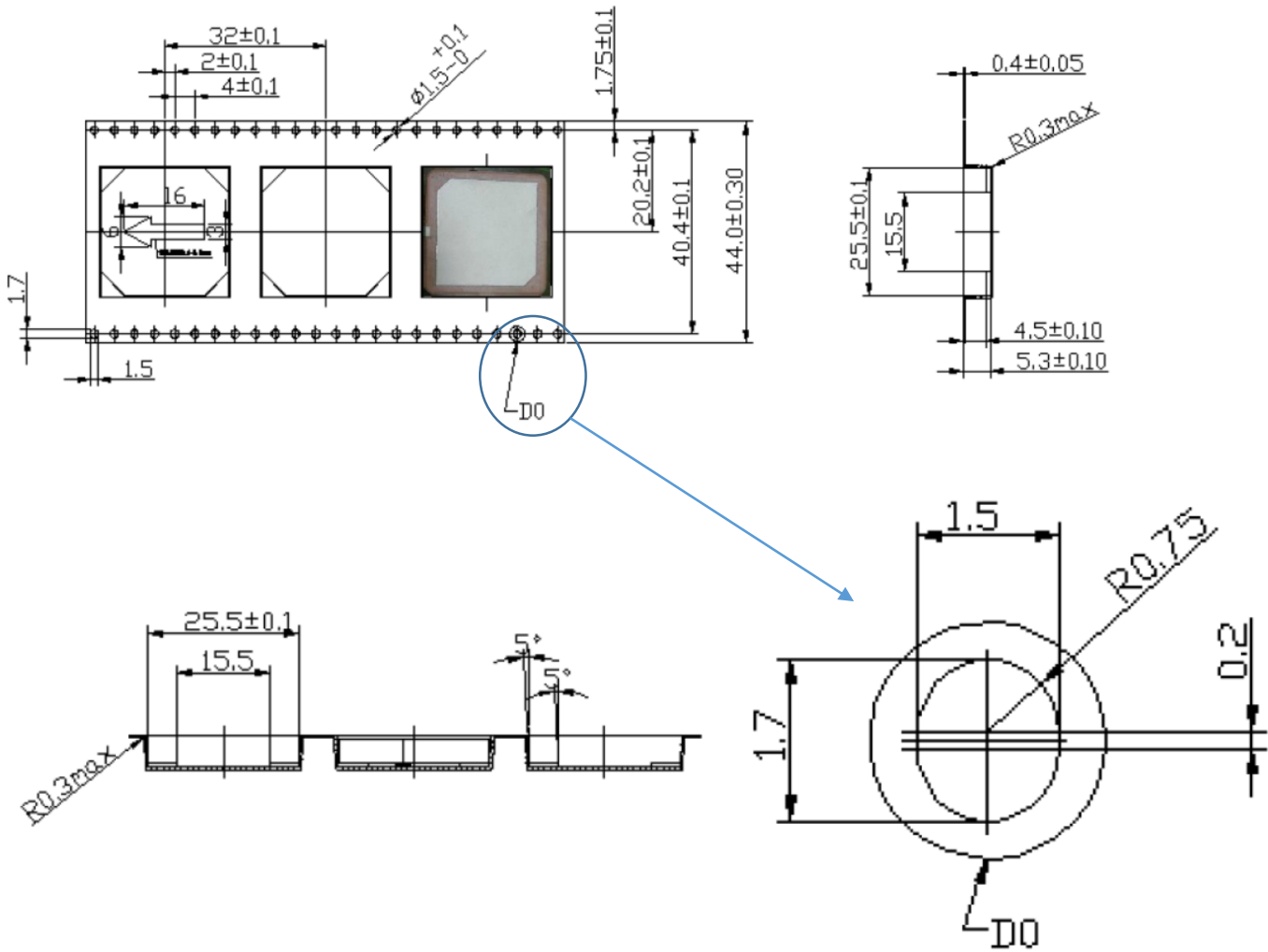
**Description:** 25x25x4mm GPS/Glonass SMD Mount

**Series:** Ceramic Patch

**PART NUMBER:** W3225

**PACKAGING**

Tape packing  
200PCS/reel



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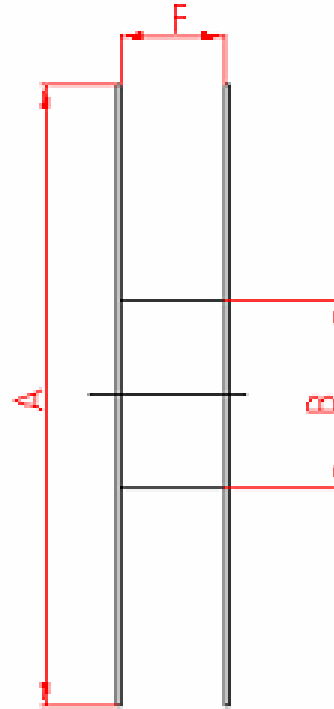
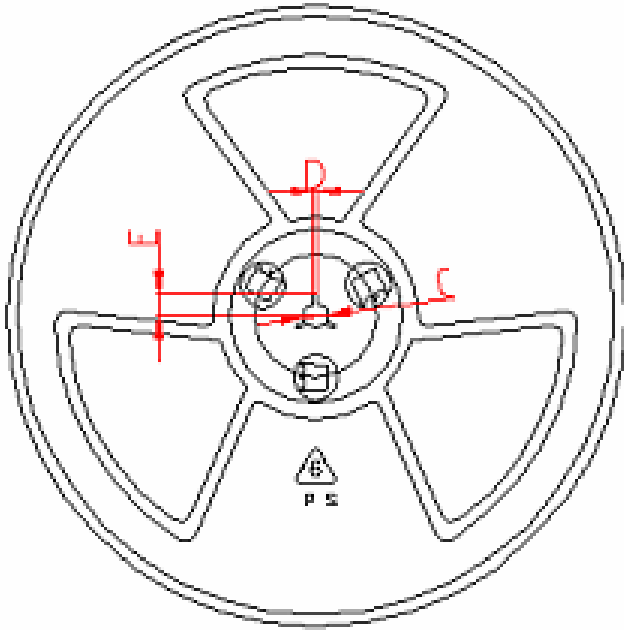
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**Description:** 25x25x4mm GPS/Glonass SMD Mount

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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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