

1570-1615 MHz GNSS ANTENNA, CHIP TYPE

Standard Antenna Solutions

Part Number: 2195764-1

PRODUCT FACTS:

- Embedded ceramic chip antenna
- SMT assembly
- Available in tap & reel
- RoHS compliant

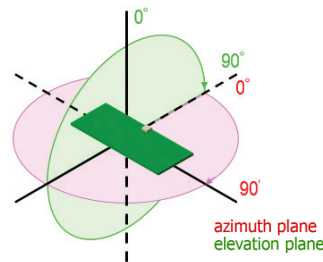
RECOMMENDATIONS:

- Minimum or no matching circuits required
- Bandwidth and performance is dependent on ground plane size. Evaluation board size is 80mm x 40mm
- PCB ground is to be on top layer

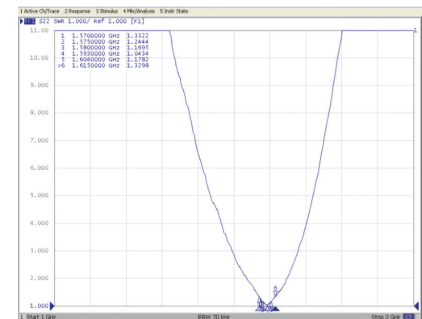
SPECIFICATIONS:

- Frequency Range: 1570-1615 MHz
- Peak Gain: ≤ 3.2 dBi (Max)
- VSWR: $< 2.0:1$
- Polarization: Linear
- Power Handling: 10 Watt cw
- Feed Point Impedance: 50 ohms
- Size: 5.2mm x 3.7mm x 0.7mm
- Mounting: Surface-mount technology
- Mounting Guide: See diagram on page 2
- Weight: 0.2 g
- Operating Temperature: -40° to 105°C

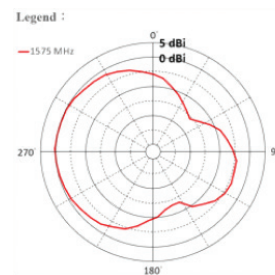
TEST ORIENTATION IN FREE SPACE:



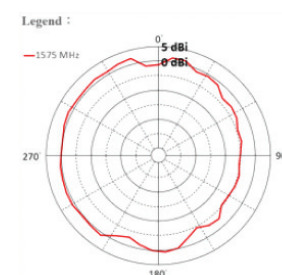
VSWR:



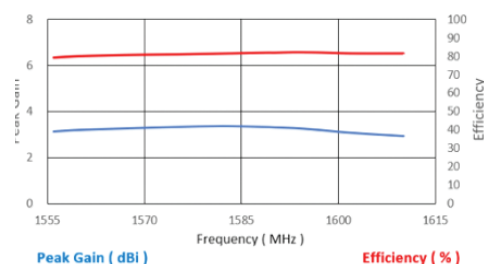
AZIMUTH:



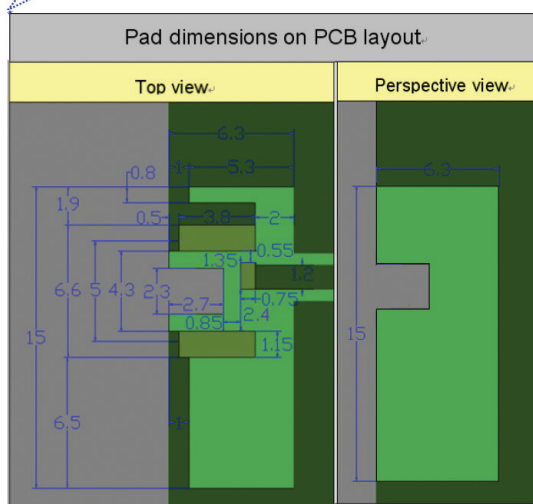
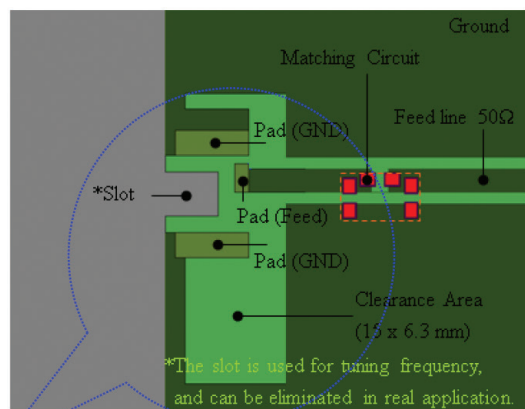
ELEVATION:



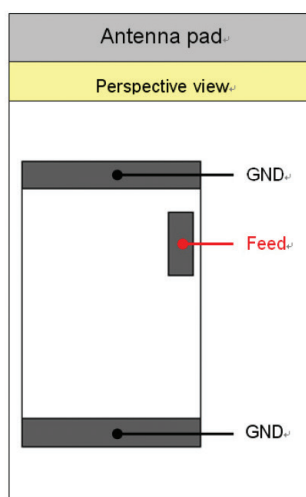
EFFICIENCY:



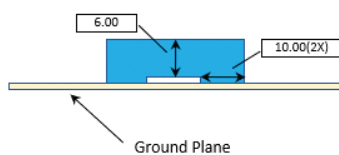
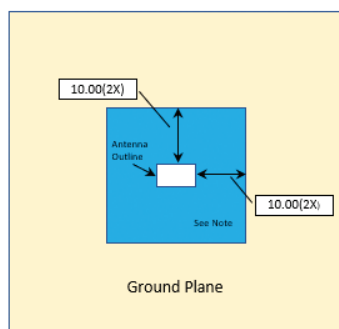
MOUNTING GUIDE:



(Unit: mm)



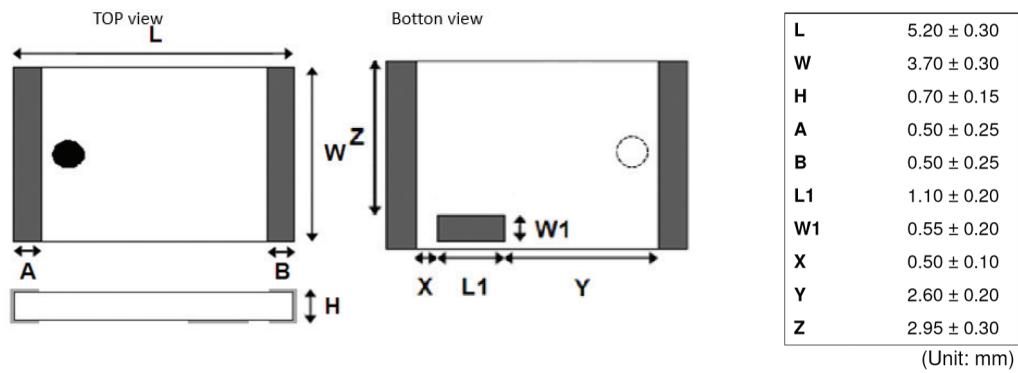
KEEP OUT AREA:



- NOTES :
1. Antenna designed to be mounted on ground plane.
 2. Area in blue above indicates Keep Out Area.
 3. For more information please call TE.

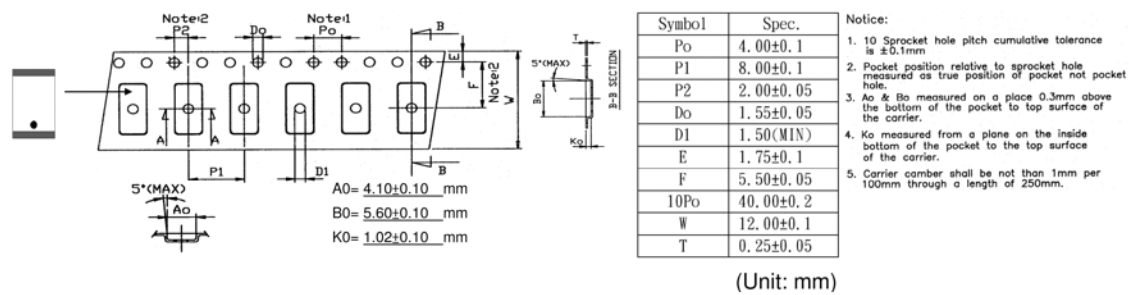
Dimensions : mm
Diagram is not to scale

APPROXIMATE DIMENSIONS:

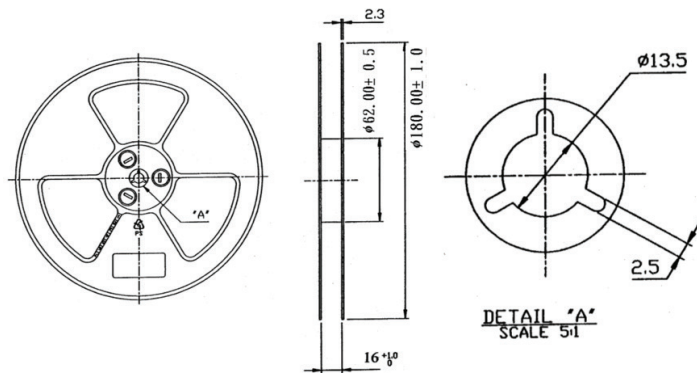


TAPING PACKAGE AND LABEL MARKING

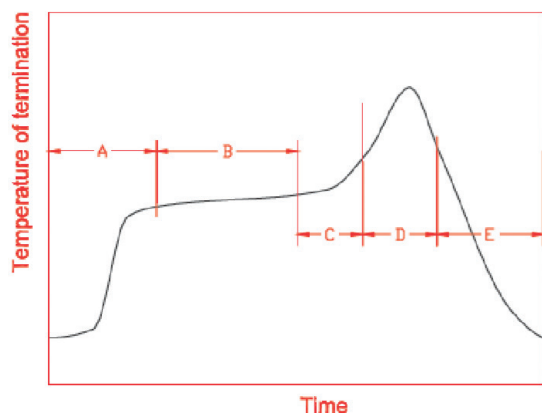
- (1) Quantity/reel: 2000pcs/reel
- (2) Carrier tape dimensions



- (3) Taping reel dimensions



RECOMMENDED REFLOW SOLDERING



A	1 st rising temperature	The normal to Preheating temperature	30s to 60s
B	Preheating	140°C to 160°C	60s to 120s
C	2 nd rising temperature	Preheating to 200°C	20s to 40s
D	Main heating	if 220°C	50s~60s
		if 230°C	40s~50s
		if 240°C	30s~40s
		if 250°C	20s~40s
		if 260°C	20s~40s
E	Regular cooling	200°C to 100°C	1°C/s ~ 4°C/s

(1) Soldering gun procedure

Note the following, in case of using solder gun for replacement

- (a) The tip temperature must be less than 350°C for a period within 3 seconds by using soldering gun under 30 W
- (b) The soldering gun tip shall not touch this product directly

(2) Soldering volume

Note that excess soldering volume will easily crack the body of this product

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