

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

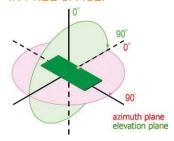
• Mounting: Surface-mount technology

• Mounting Guide: See diagram on page 2

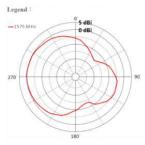
Weight: 0.2 g

• Operating Temperature: -40° to 105°C

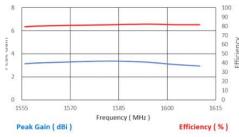
TEST ORIENTATION IN FREE SPACE:



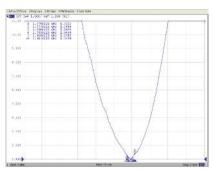
AZIMUTH:



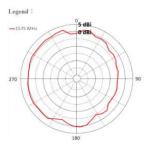
EFFICIENCY:



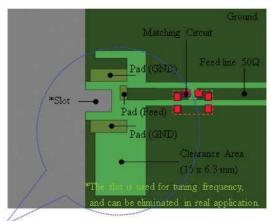
VSWR:

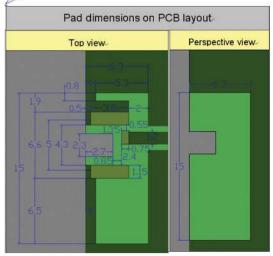


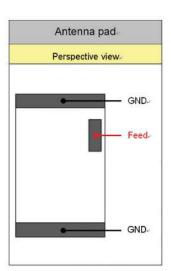
ELEVATION:



MOUNTING GUIDE:

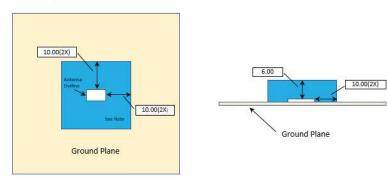






(Unit: mm)

KEEP OUT AREA:

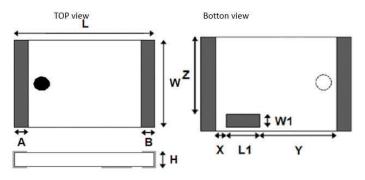


NOTES : 1. Antenna designed to be mounted on ground plane.

Area in blue above indicates Keep Out Area.
 For more information please call TE.

Dimensions: mm Diagram is not to scale

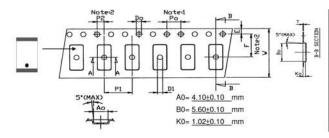
APPROXIMATE DIMENSIONS:



L	5.20 ± 0.30
w	3.70 ± 0.30
н	0.70 ± 0.15
A	0.50 ± 0.25
В	0.50 ± 0.25
L1	1.10 ± 0.20
W1	0.55 ± 0.20
x	0.50 ± 0.10
Υ	2.60 ± 0.20
z	2.95 ± 0.30
	(Unit: mm)

TAPING PACKAGE AND LABEL MARKING

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



Symbo1	Spec,	
Po	4.00±0.1	
P1	8. 00±0. 1	
P2	2. 00±0. 05	
Do	1.55±0.05	
D1	1.50(MIN)	
Е	1.75±0.1	
F	5. 50±0. 05	
10Po	40.00±0.2	
W	12.00±0.1	
T 0.25±0.		

Notice:

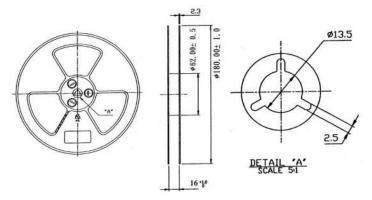
- 1. 10 Sprocket hole pitch cumulative tolerance is ±0.1mm
- measured as true position of pocket not po hole.

 3. Ao & Bo measured on a place 0.3mm above
- the bottom of the pocket to top surface of the carrier.

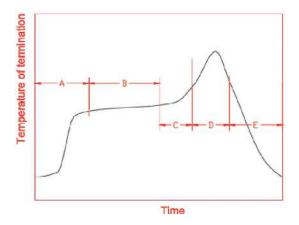
 4. Ko measured from a plane on the inside
- 5. Carrier camber shall be not than 1mm pe

(Unit: mm)

(3) Taping reel dimensions



RECOMMENDED REFLOW SOLDERING



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

TE TECHNICAL SUPPORT CENTER

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