

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 100mm x50mm
- PCB ground is to be on top layer

SPECIFICATIONS:

- Frequency Range: 1570-1580 MHz/2400-2500 MHz
- Peak Gain:

 1570-1580 MHz ≤ 0.69 dBi (Max)
 2400-2500 MHz ≤ 0.97 dBi (Max)
- Return Loss: <-10 dB
- Size: 3.2mm x 1.7mm x 0.5mm
- Mounting: Surface-mount technology
- Mounting Guide: See diagram on page 2
- Weight: 0.1 g
- Operating Temperature: -40° to 105°C

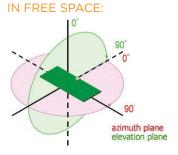
1570-1580, 2400-2500 MHz GPS/WiFi BAND ANTENNA

Standard Antenna Solutions

Includes Frequencies of GNSS, Bluetooth, ZigBee and WiFi Products

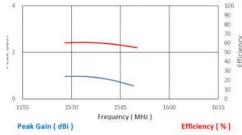
Part Number: 2195765-1

TEST ORIENTATION

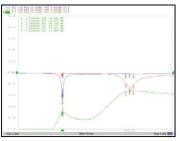




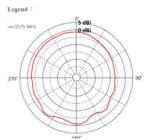
EFFICIENCY:



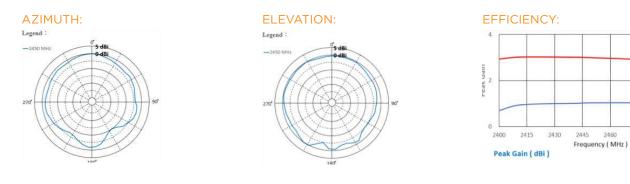
RETURN LOSS:



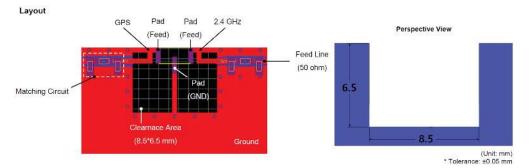
ELEVATION:



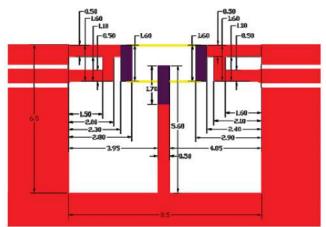
2400-2500MHz



MOUNTING GUIDE:



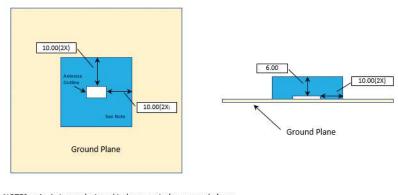
Top View



Efficiency (%)

Efficiency

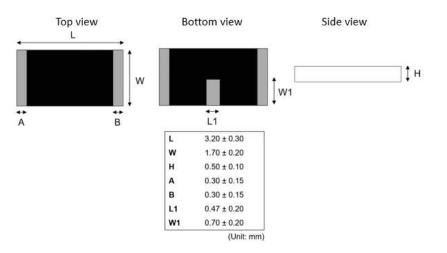
KEEP OUT AREA:



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

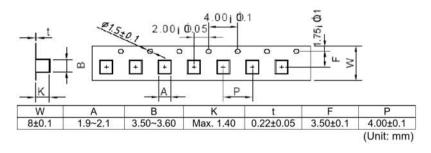
Dimensions : mm Diagram is not to scale

APPROXIMATE DIMENSIONS:

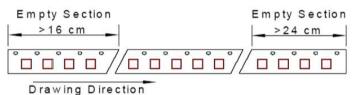


TAPING PACKAGE AND LABEL MARKING

Quantity: 4000pcs/reel, T (Thickness of chip) ≤1.2
 Plastic tape

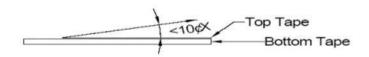


(3) Tape Packing

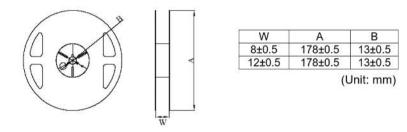


(4) Cover Tape Reel Off Force

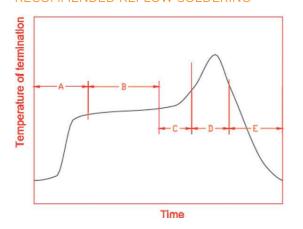
 $5g \cdot f \leq Peel-Off Force \leq 70g \cdot f$



(5) Reel Dimensions Reel Material: Polystyrene



RECOMMENDED REFLOW SOLDERING



A	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°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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