

BT/Wi-Fi 2.4 GHz EMBEDDED CHIP ANTENNA

Part Numbers: 2108838-1

FEATURES & BENEFITS

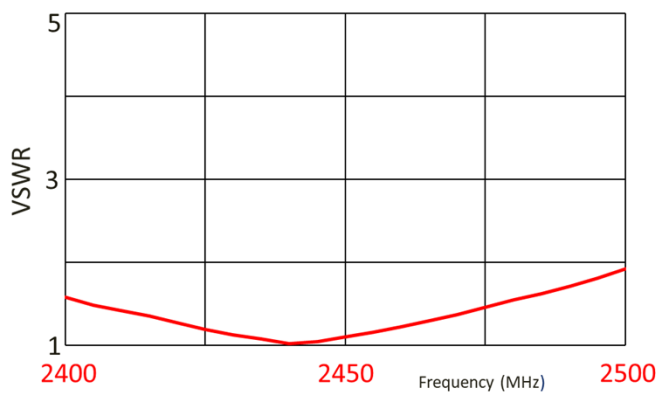
- Wi-Fi 2.4 GHz, Bluetooth, ZigBee
- Embedded Ceramic Chip Antenna
- On Board SMD Antenna
- Available in tape & reel
- The following data is based on 10 x 30 mm ground size

SPECIFICATIONS

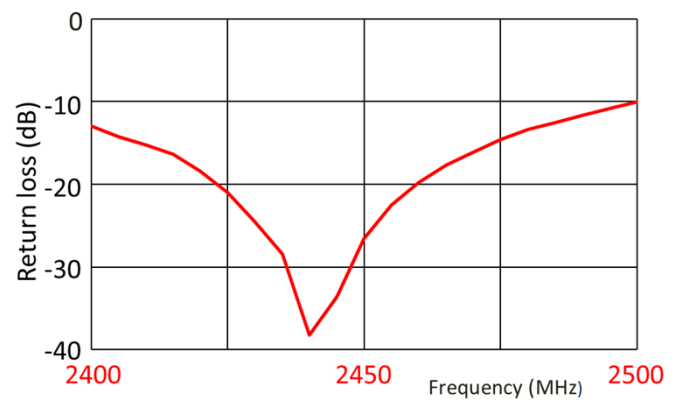
Frequency Range (MHz)	2400-2500
VSWR	< 2.0:1
Average Efficiency	57%
Peak Gain	2.4 dBi
Average Gain	-2.5dBi
Feed Point Impedance	50 ohms
Polarization	Linear
Size	3.2 mm x 1.6 mm x 1.2 mm
Weight	< 0.02 g
Mounting	Surface mount
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

RF DATA

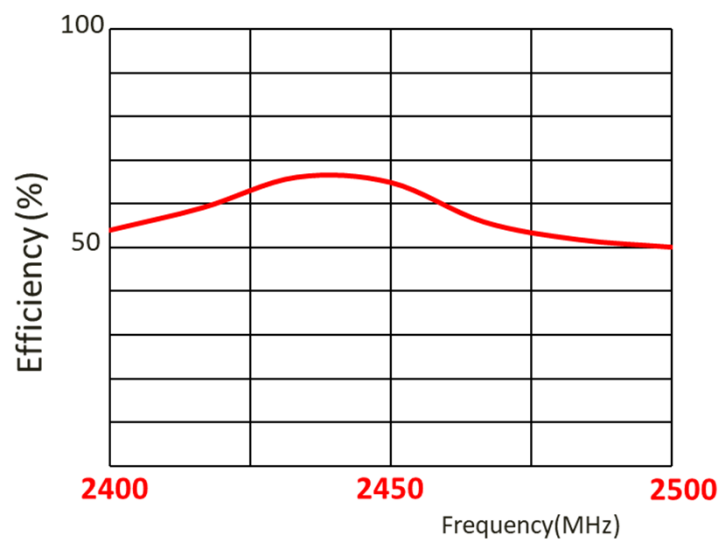
VSWR



Return Loss

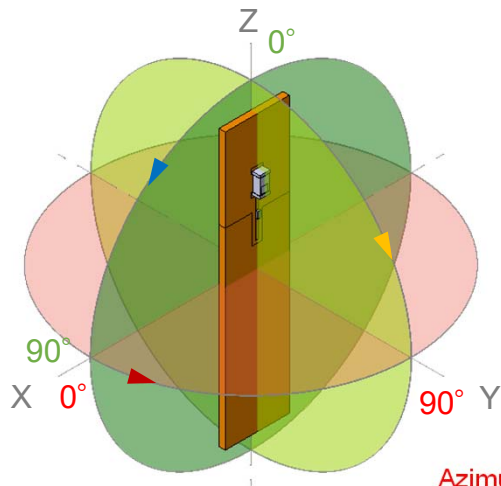


Efficiency



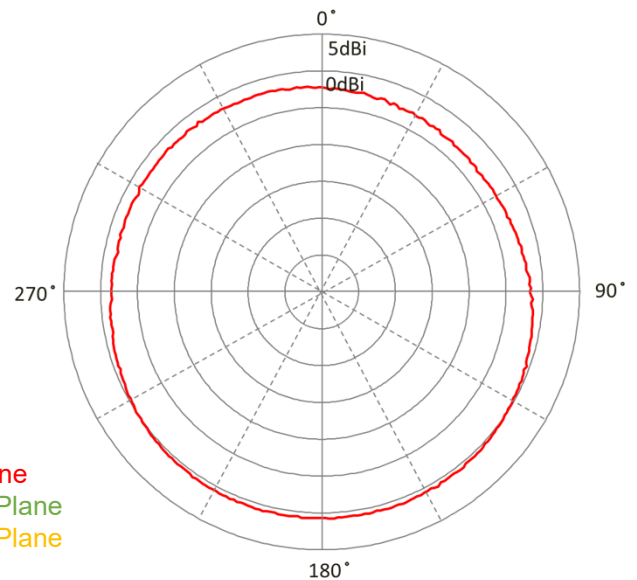
RADIATION PATTERN

Test setup

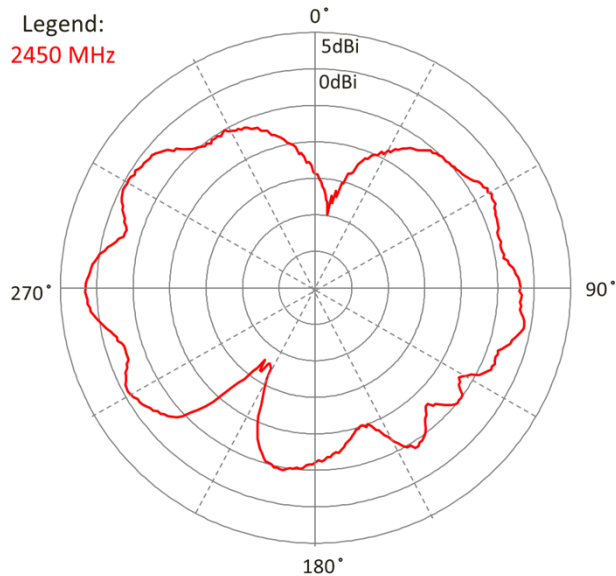


Azimuth Plane
Elevation 1 Plane
Elevation 2 Plane

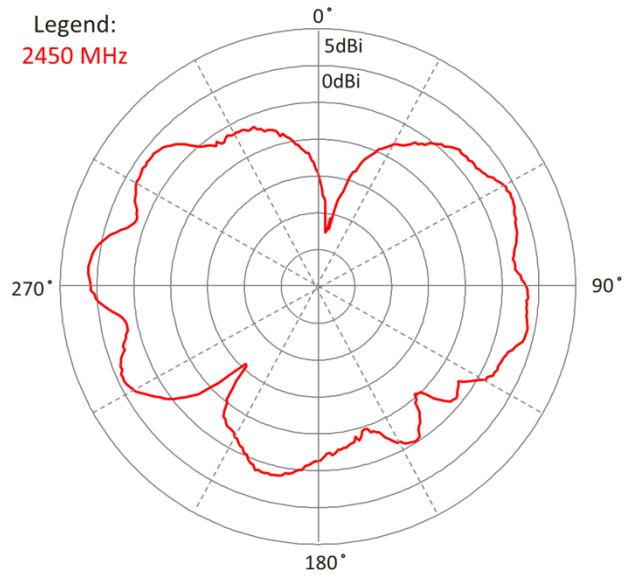
Azimuth



Elevation 1



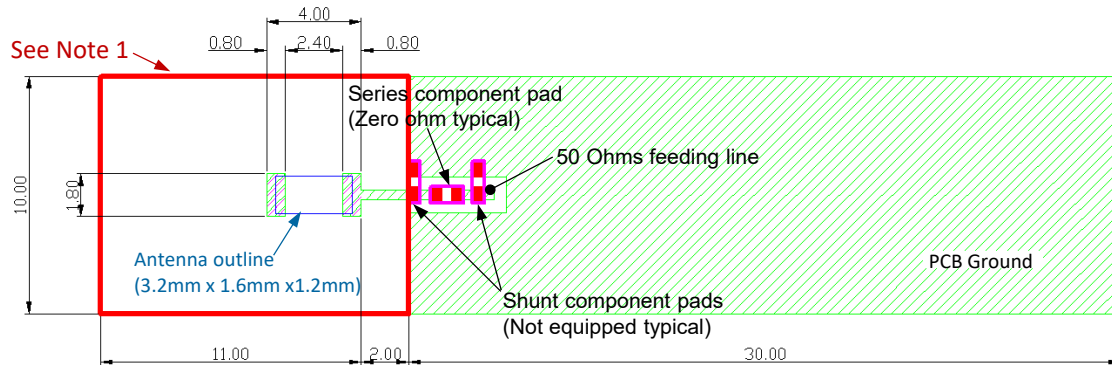
Elevation 2



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Standard Antenna Solutions

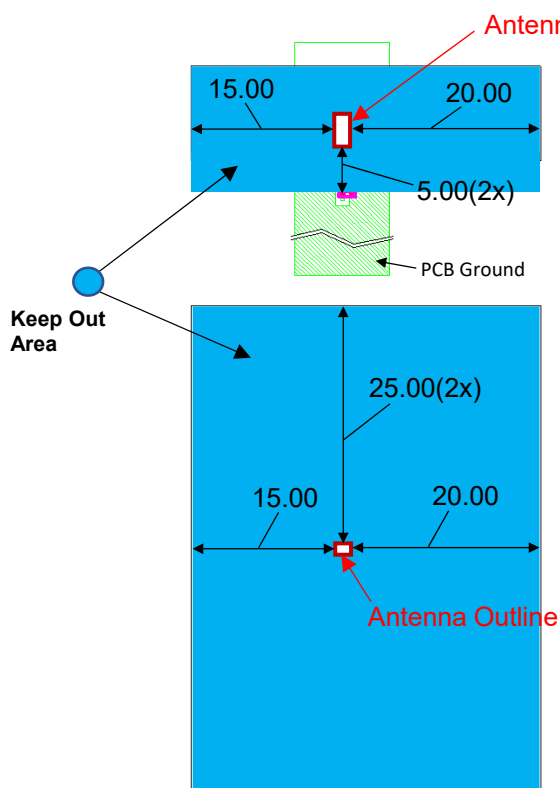
MOUNTING GUIDE



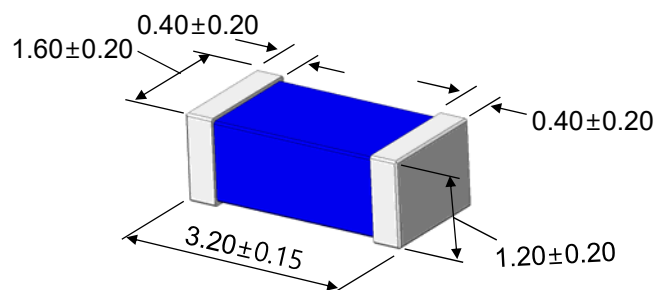
- NOTES: 1. No copper allowed in designated area on all PCB layers – 
2. Measured with above matching circuit condition.
3. For more information please call TE.

Dimension: mm
Diagrams is not to scale

KEEP OUT AREA



DIMENSIONS

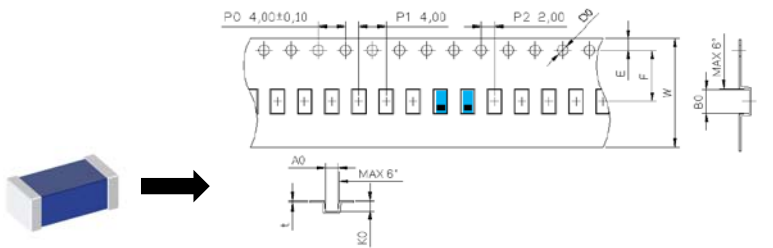


Dimension: mm
Diagrams is not to scale

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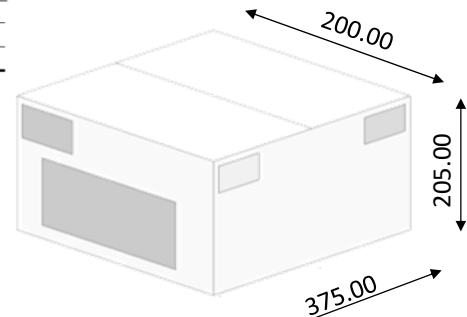
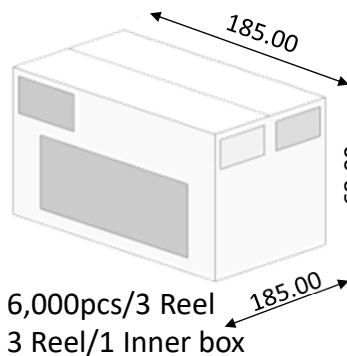
Standard Antenna Solutions

PACKAGING

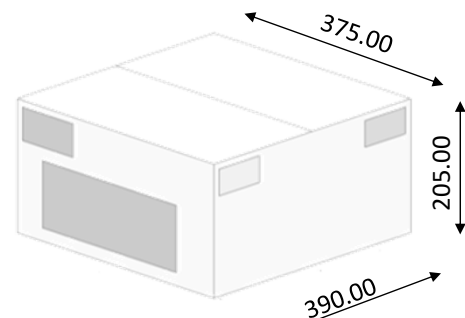


Item	Spec.	Item	Spec.	Item	Spec.
A0	1.90±0.10	P0	4.00 ±0.10	E	1.75±0.10
B0	3.50±0.10	P1	4.00 ±0.10	F	7.50±0.10
K0	1.50±0.10	P2	2.00 ±0.10	W	16.00±0.30
D0	1.55±0.05	-	-	t	0.30±0.05

2,000pcs/1Reel
Ø7" x 12 mm



30,000pcs/5 Inner box
5 Inner box/1 Outer box #1



60,000pcs/10 Inner box
10 Inner box/1 Outer box #2

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