



BT/Wi-Fi 2.4 GHz EMBEDDED CHIP ANTENNA

Part Numbers: 2108832-1

FEATURES & BENEFITS

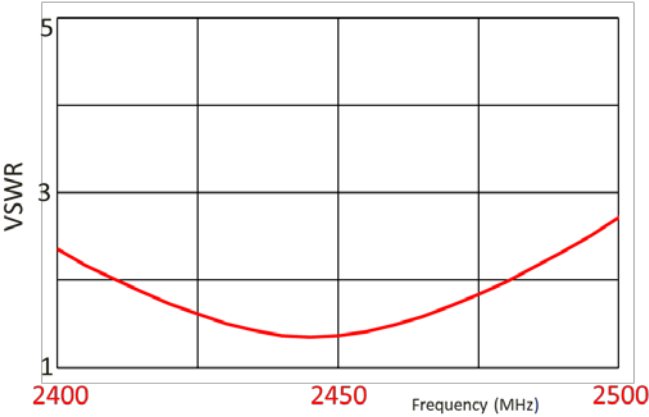
- Wi-Fi 2.4 GHz, Bluetooth, ZigBee
- Embedded Ceramic Chip Antenna
- On Board SMD Antenna
- Available in tape & reel
- The following data is based on 50 x 50 mm ground size

SPECIFICATIONS

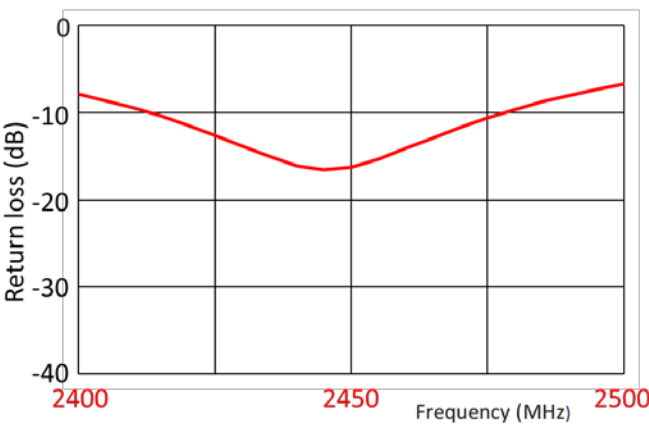
Frequency Range (MHz)	2400 - 2500
VSWR	< 2.8:1
Average Efficiency	82 %
Peak Gain	1.8 dBi
Average Gain	-1.9 dBi
Feed Point Impedance	50 ohms
Polarization	Linear
Size	3.0 mm x 1.5 mm x 1.2 mm
Weight	< 0.02 g
Mounting	Surface mount
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

RF DATA

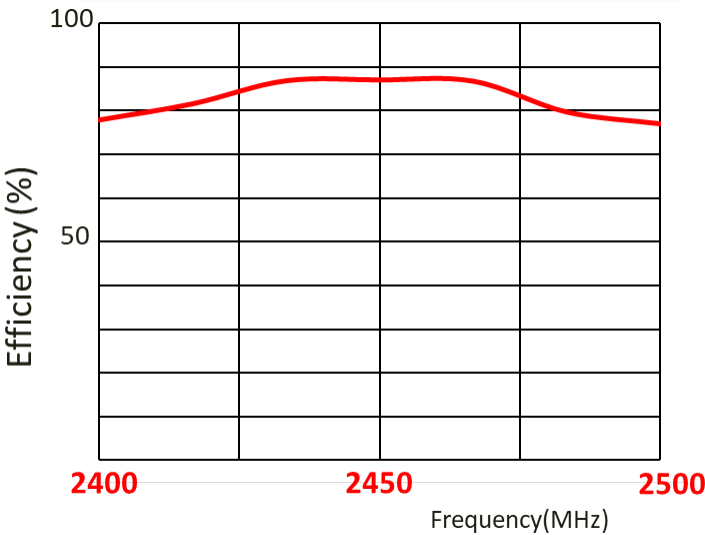
VSWR



Return Loss

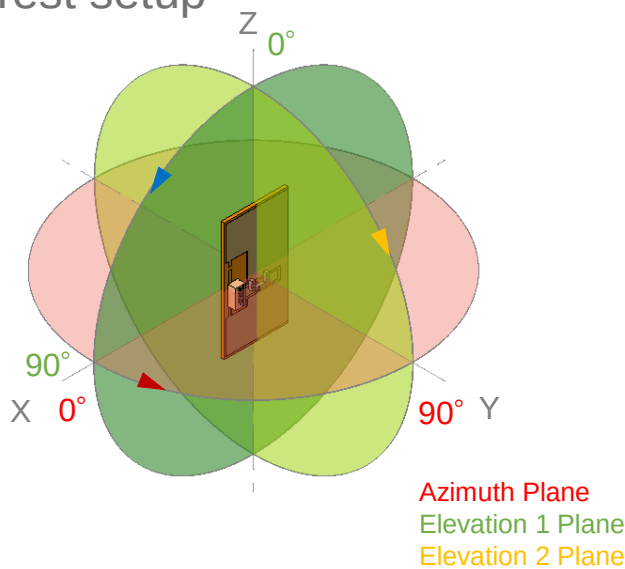


Efficiency

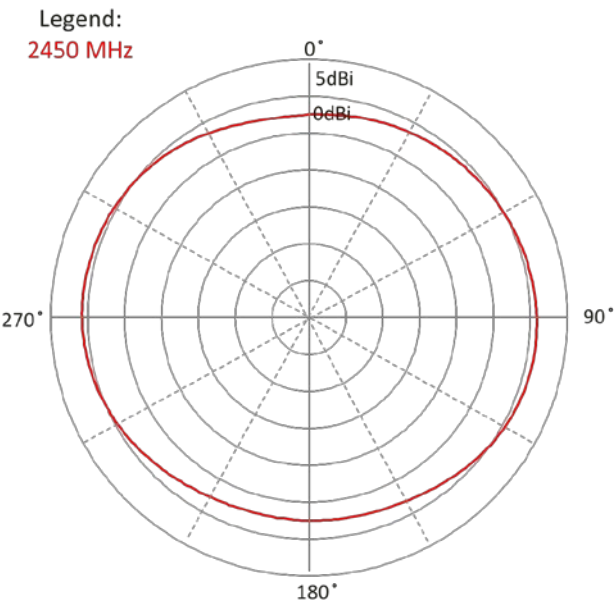


RADIATION PATTERN

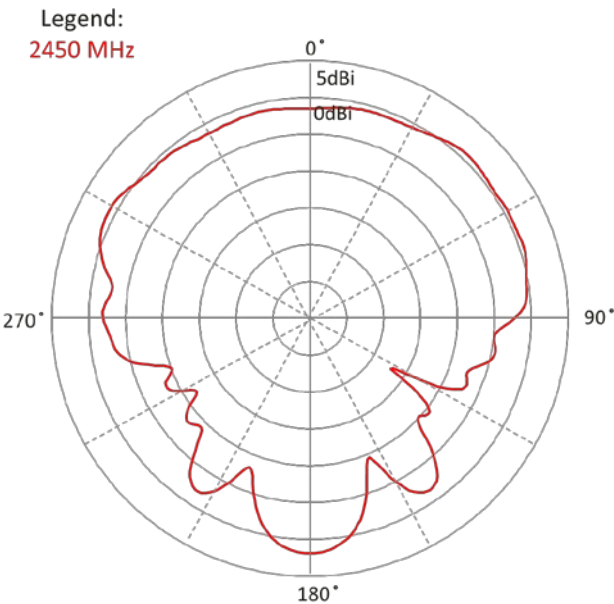
Test setup



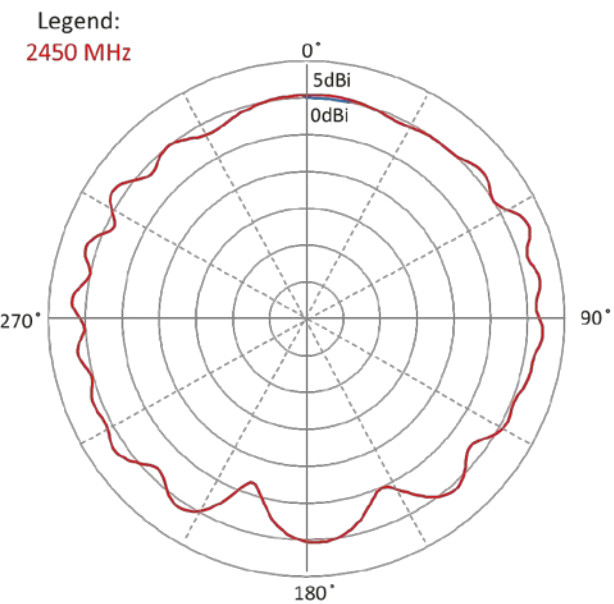
Azimuth



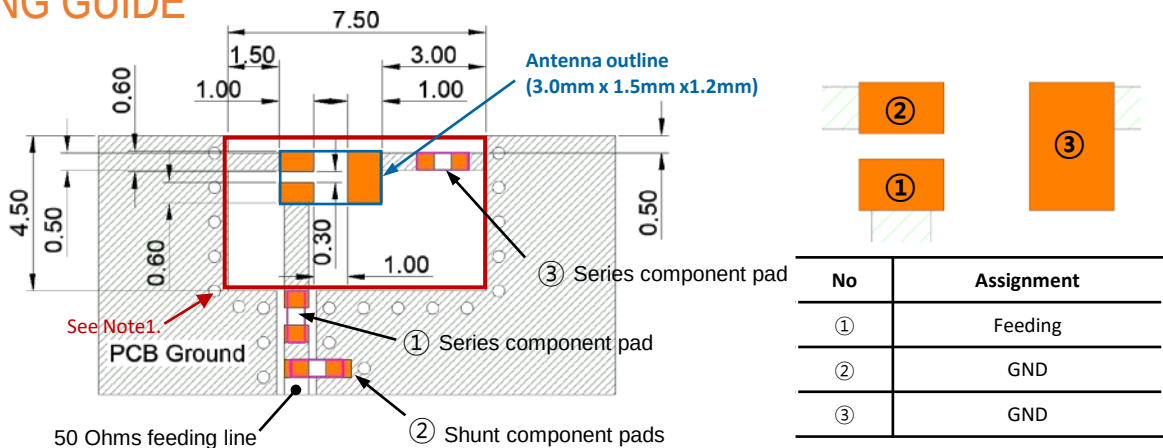
Elevation 1



Elevation 2

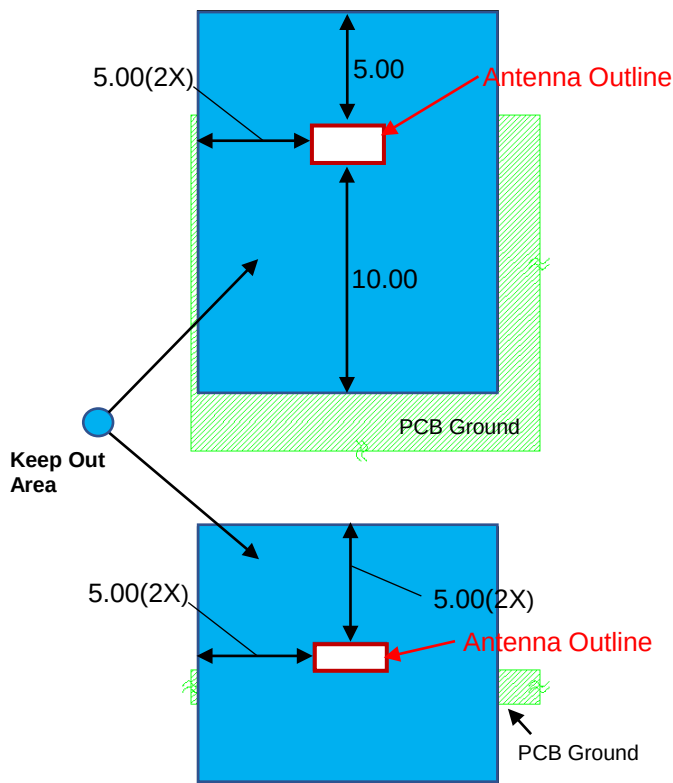


MOUNTING GUIDE

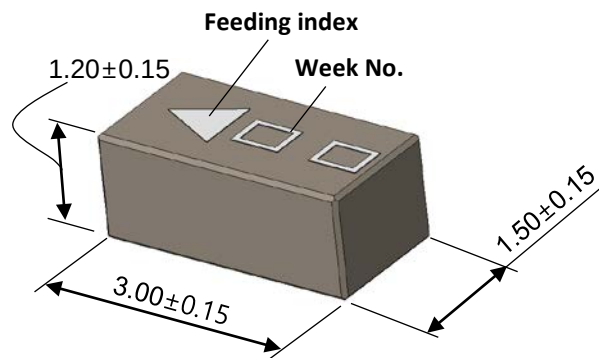


- NOTES: 1. No copper allowed in designated area on all PCB layers – **Dimension: mm**
2. Measured with above matching circuit condition. **Diagrams is not to scale**
3. For more information please call TE.
4. Measured with below matching circuit condition.
① 4.7pF ② 2.7nH ③ 100pF

KEEP OUT AREA

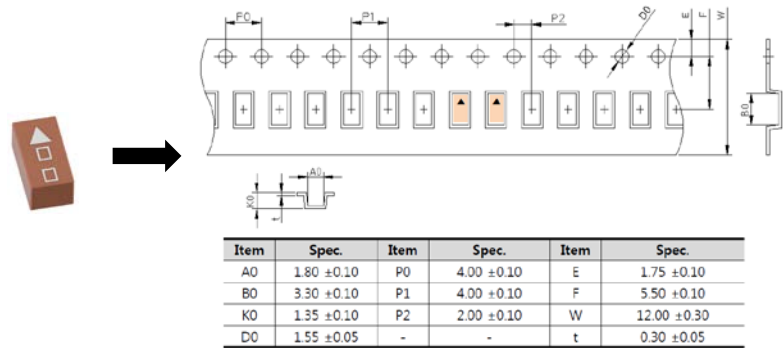


DIMENSIONS



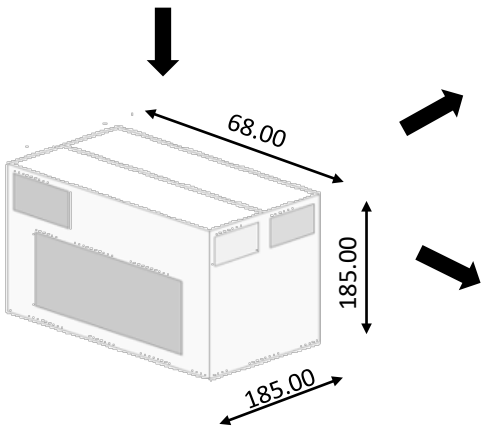
Dimension: mm
Diagrams is not to scale

PACKAGING

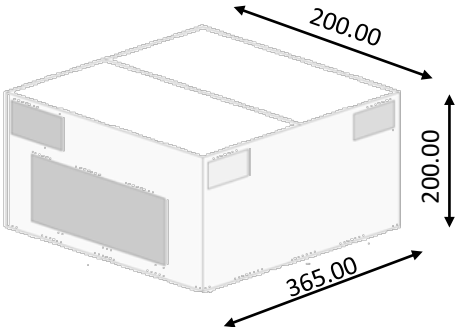


Item	Spec.	Item	Spec.	Item	Spec.
A0	1.80 ±0.10	P0	4.00 ±0.10	E	1.75 ±0.10
B0	3.30 ±0.10	P1	4.00 ±0.10	F	5.50 ±0.10
K0	1.35 ±0.10	P2	2.00 ±0.10	W	12.00 ±0.30
D0	1.55 ±0.05	-	-	t	0.30 ±0.05

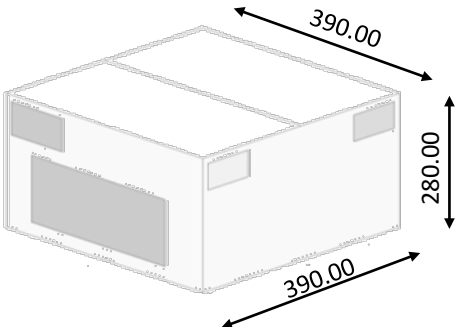
2,500pcs/1Reel
Ø7" x 12 mm



7,500pcs/3 Reel
3 Reel/1 Inner box



37,500pcs/5 Inner box
5 Inner box/1 Outer box #1



105,000pcs/14 Inner box
14 Inner box/1 Outer box #2

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03/2023