

1559-1610 MHz GNSS EMBEDDED CHIP ANTENNA

Part Numbers: 2108824-1

FEATURES & BENEFITS

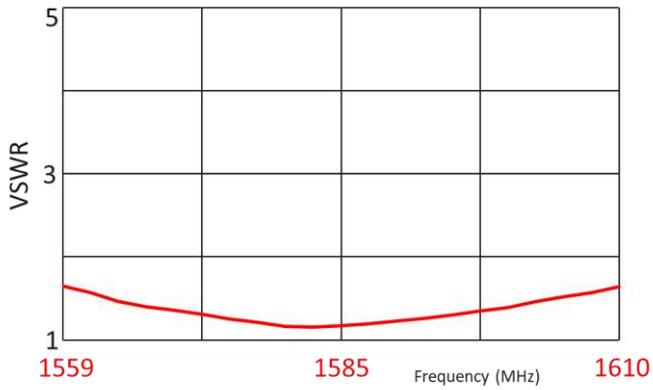
- L1+G1 bands for GNSS
- Embedded Ceramic Chip Antenna
- On Board SMD Antenna
- Available in tape & reel
- The following data is based on 80 x 40 mm ground size

SPECIFICATIONS

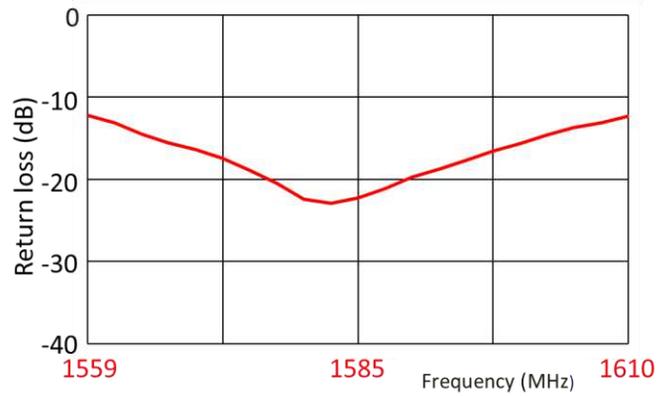
Frequency Range (MHz)	1559-1610
VSWR	< 1.7:1
Average Efficiency	80%
Peak Gain	2.9 dBi
Average Gain	-1.0dBi
Feed Point Impedance	50 ohms
Polarization	Linear
Size	10.0 mm x 3.0 mm x 1.5 mm
Weight	< 0.11 g
Mounting	Surface mount
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

RF DATA

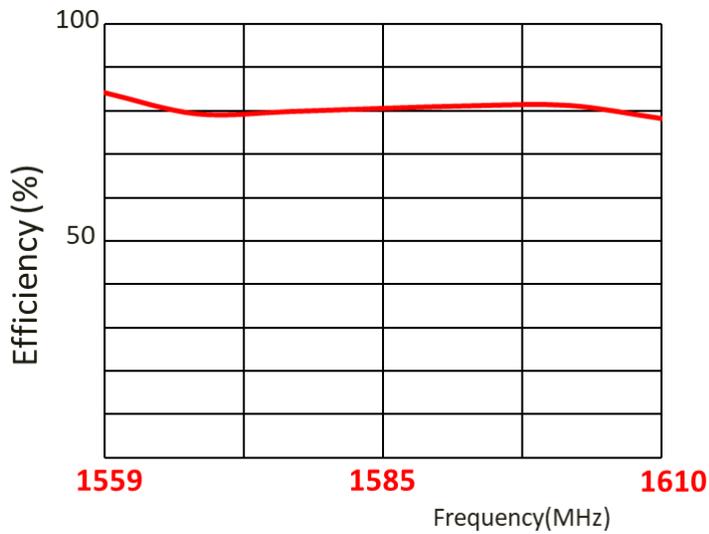
VSWR



Return Loss

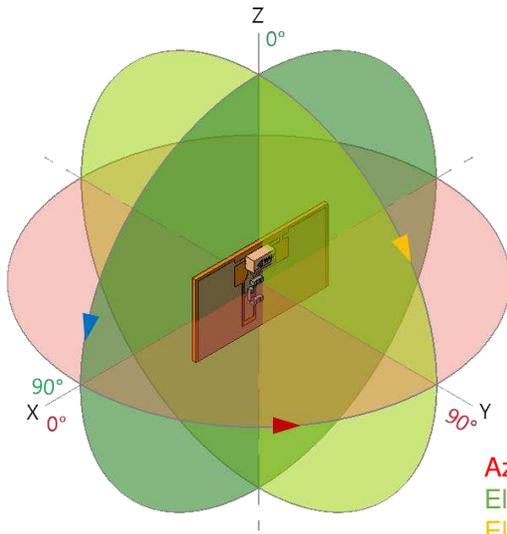


Efficiency



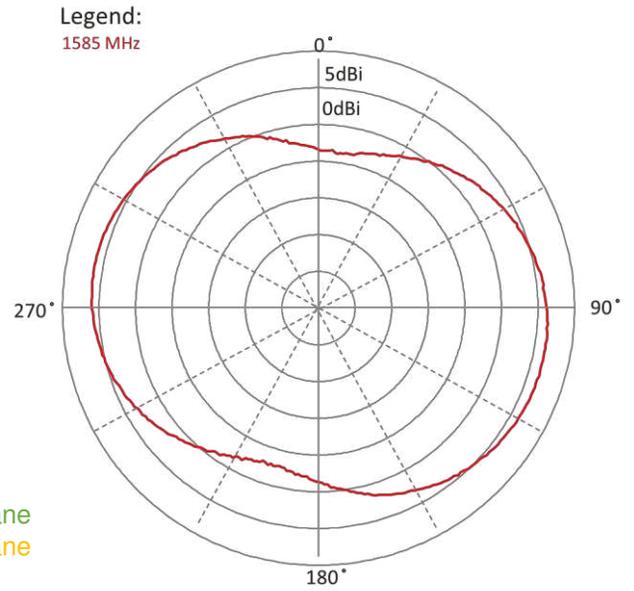
RADIATION PATTERN

Test setup

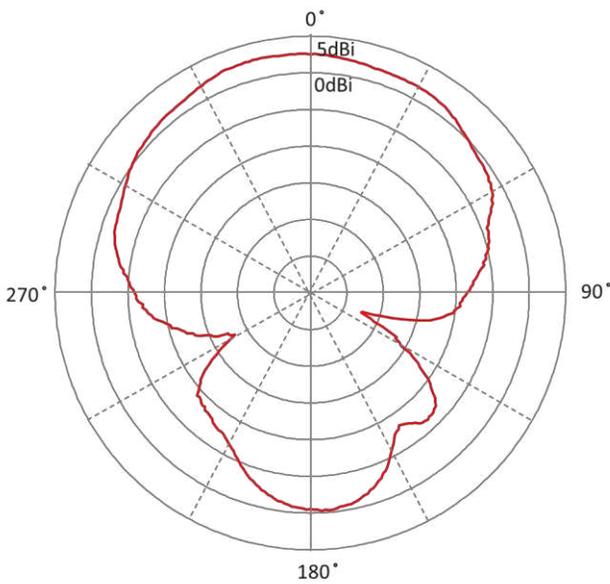


Azimuth Plane
Elevation 1 Plane
Elevation 2 Plane

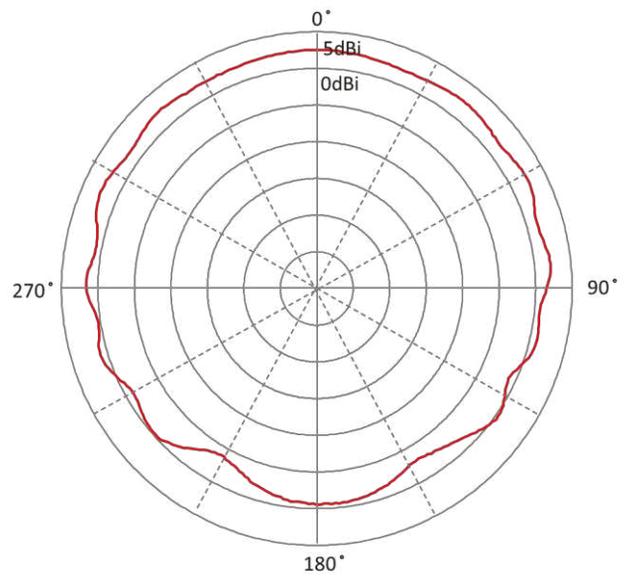
Azimuth



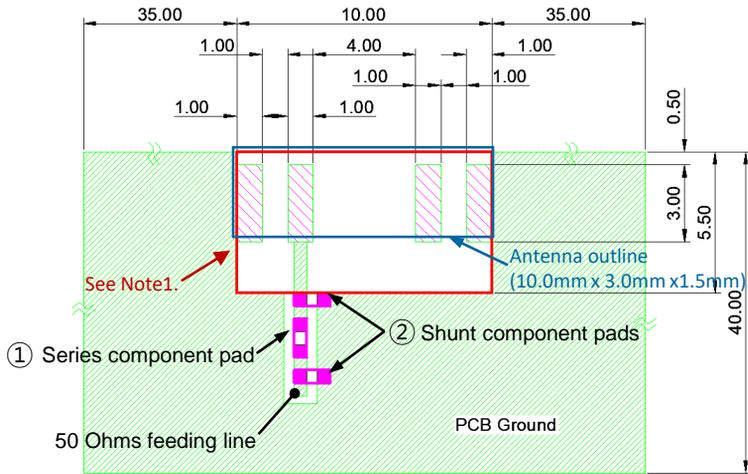
Elevation 1



Elevation 2



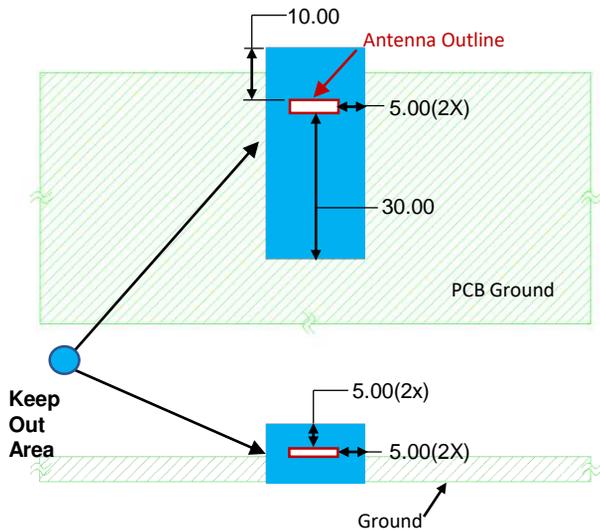
MOUNTING GUIDE



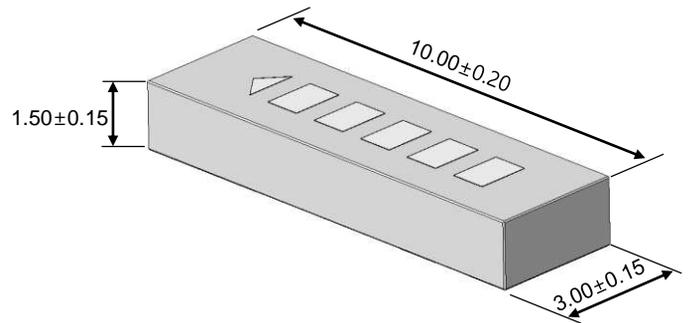
Dimension: mm
Diagrams is not to scale

- 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.
4. Measured with below matching circuit condition.
- ① 100pF ② NC

KEEP OUT AREA



DIMENSIONS

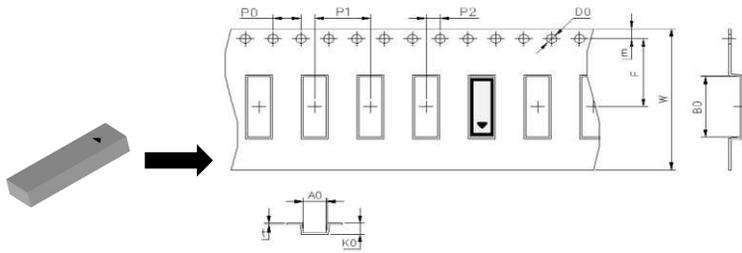


Dimension: mm
Diagrams is not to scale

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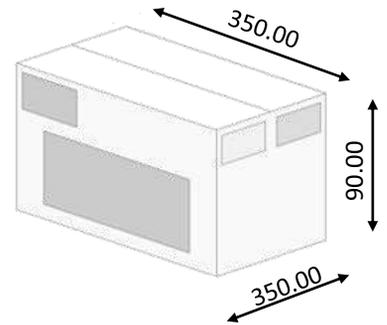
Standard Antenna Solutions

PACKAGING

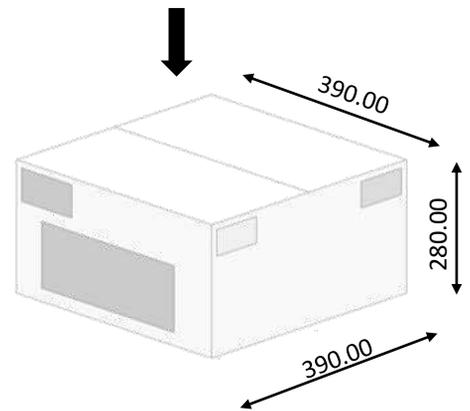


Item	Spec	Item	Spec	Item	Spec
A0	3.30 ±0.10	P0	4.00 ±0.10	E	1.75 ±0.10
B0	10.30 ±0.10	P1	8.00 ±0.10	F	11.50 ±0.10
K0	1.65 ±0.10	P2	2.00 ±0.10	W	24.00 ±0.30
D0	1.55 ±0.05	-	-	t	0.30 ±0.05

4,000pcs/1Reel
Ø13" x 24 mm



4,000pcs/1 Reel
1 Reel/1 Inner box



12,000pcs/3 Inner box
3 Inner box/1 Outer box

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03/2023