



5G/4G/3G/2G, NB-IoT, Cat-M, GNSS WORLD BAND ANTENNA

Part Numbers: 2195728-1

FEATURES & BENEFITS

- Omnidirectional coverage
- Tab mounting with plated through holes
- Wide Band coverage for 3G, 4G and 5G with GNSS coverage
- Bandwidth and performance is dependent on ground plane size
Suggested minimum ground plane length from the antenna feed is 100 mm.

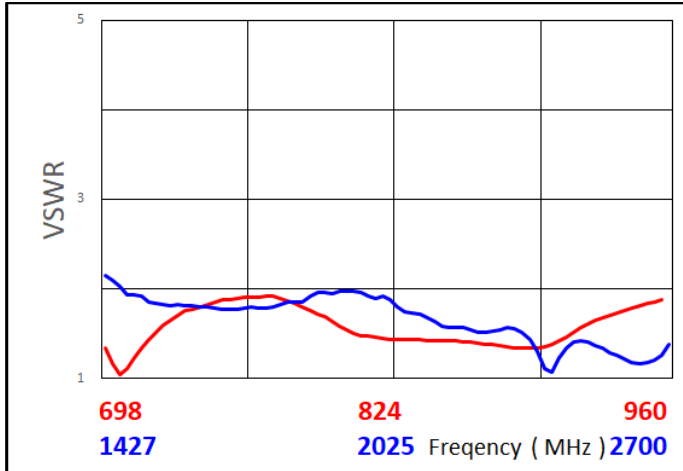
SPECIFICATIONS

| | | | |
|-------------------------|---|-----------|-----------|
| Frequency Range (MHz) | 698-960 | 1427-1661 | 1710-2700 |
| VSWR | < 2 : 1 | < 2 : 1 | < 2 : 1 |
| Average Efficiency | 60% | 66% | 68% |
| Peak Gain | 1.67dBi | 2.13dBi | 2.32dBi |
| Average Gain | -2.2dBi | -1.7dBi | -1.6dBi |
| Power Handling | 10 Watt cw | | |
| Feed Point Impedance | 50 ohms unbalanced | | |
| Polarization | Linear | | |
| Size | 55 x 20 mm | | |
| Weight | < 11g | | |
| Mounting | Tab mounting with plated through holes | | |
| Operating Temperature | -40 to +85°C | | |
| Storage Temperature | -40 to +85°C | | |
| Packaging Specification | Bag & Box | | |
| Hazardous Materials | A certificate of conformance is available from the product page on TE website | | |

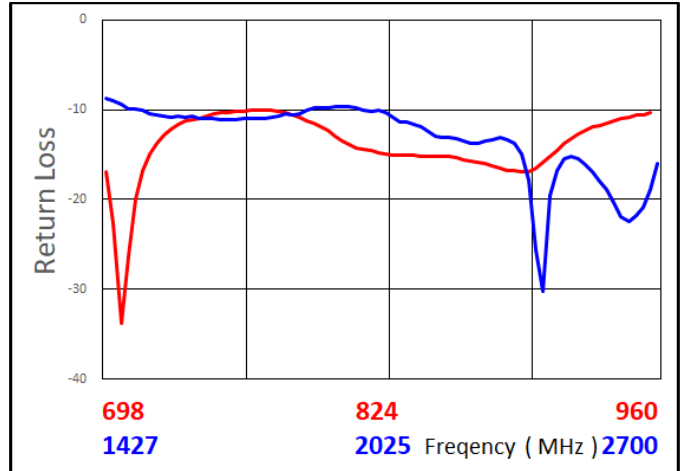
Data measured in free space and on reference ground plane of 110mm length and 65mm width. Application data may vary

RF DATA

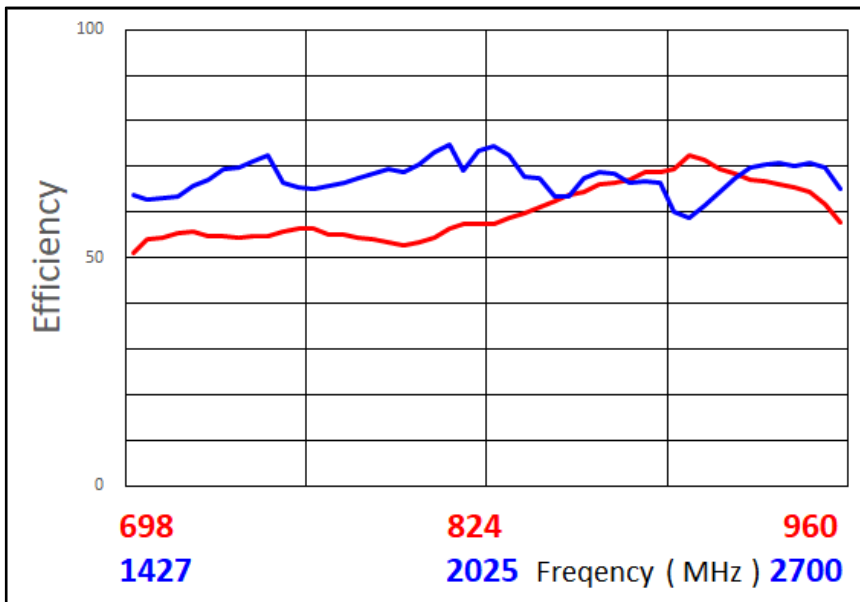
VSWR



Return Loss



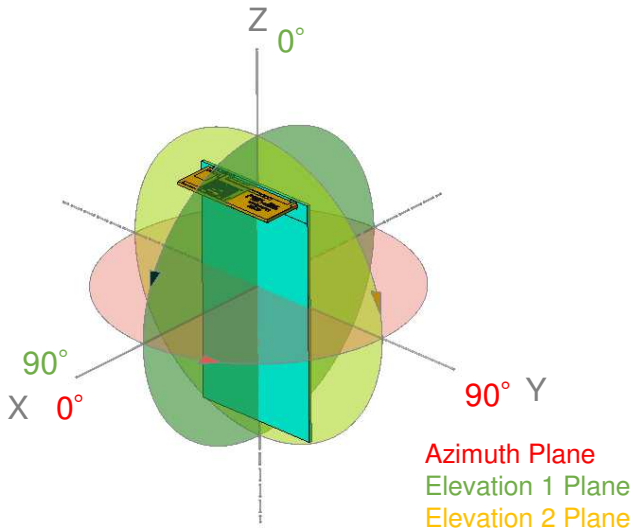
Efficiency



Data measured in free space and on reference ground plane of 110mm length and 65mm width. Application data may vary

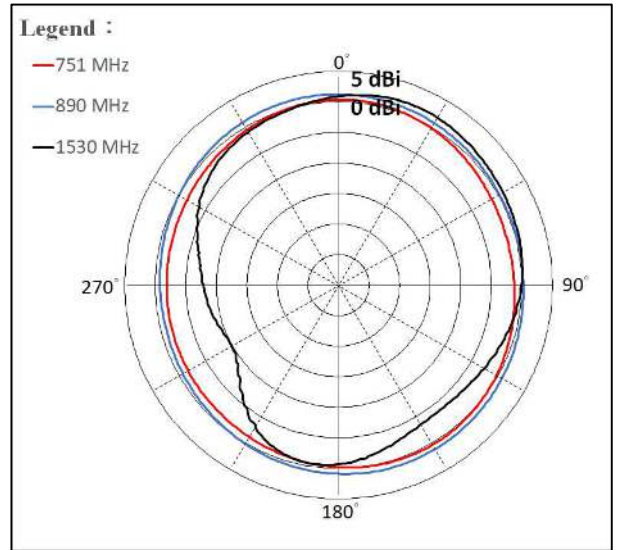
RADIATION PATTERN

Test setup

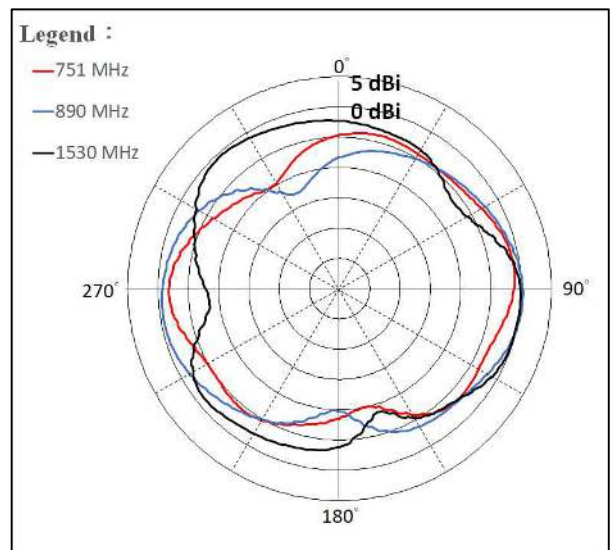
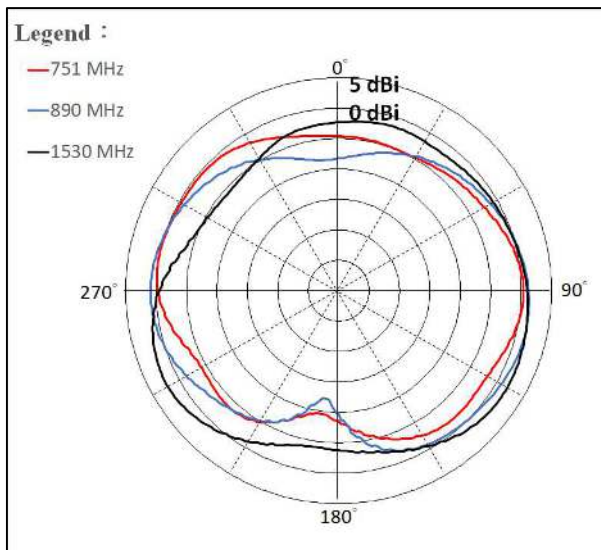


Elevation 1

Azimuth



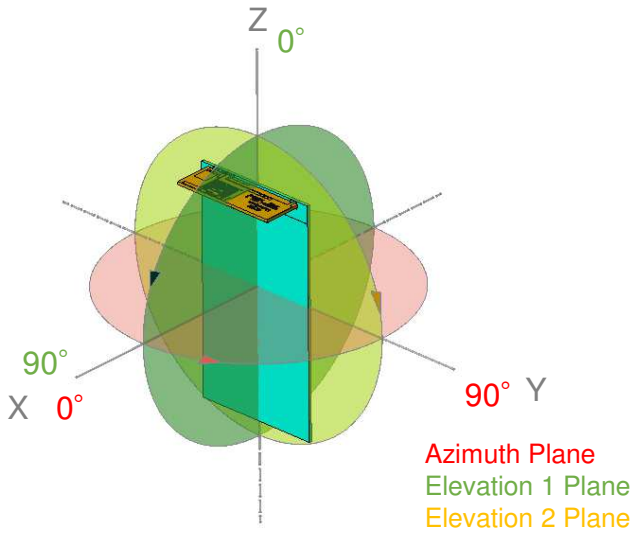
Elevation 2



Data measured in free space and on reference ground plane of 110mm length and 65mm width. Application data may vary

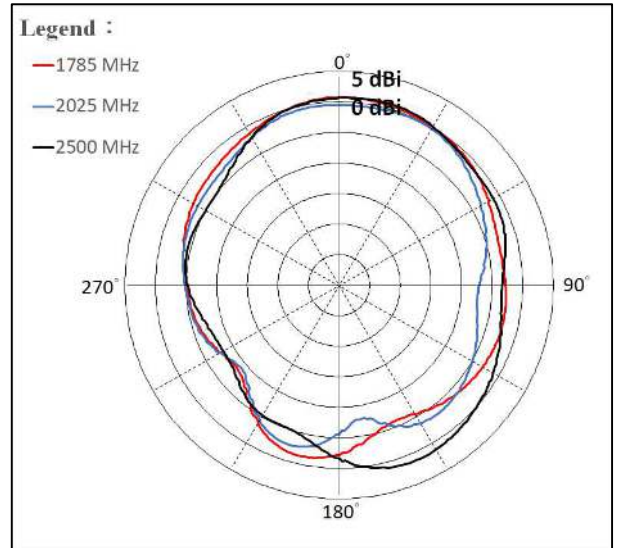
RADIATION PATTERN

Test setup

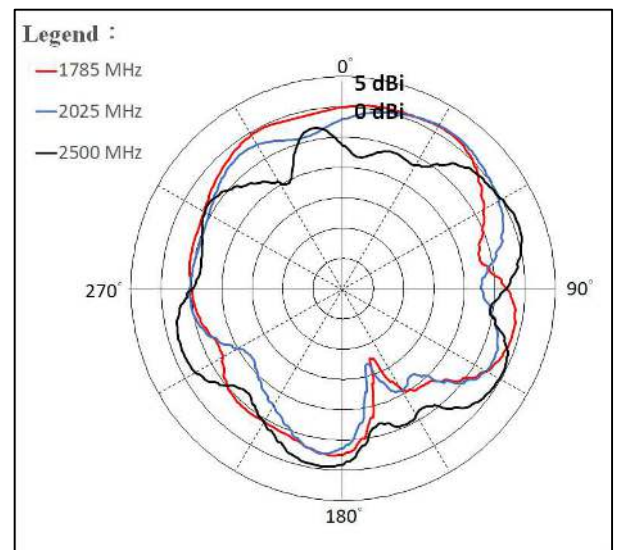
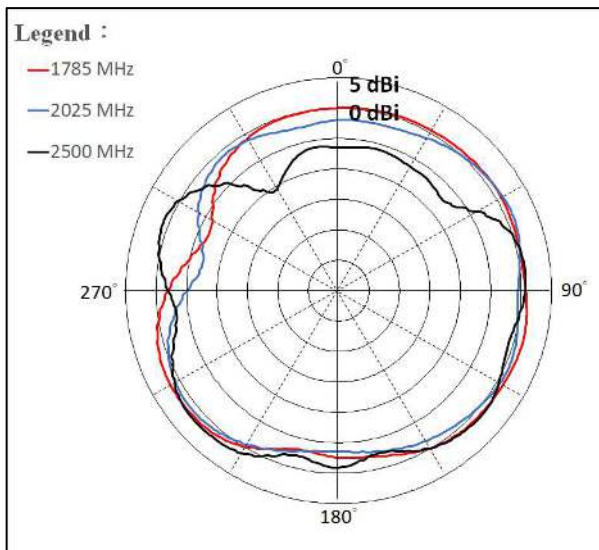


Elevation 1

Azimuth

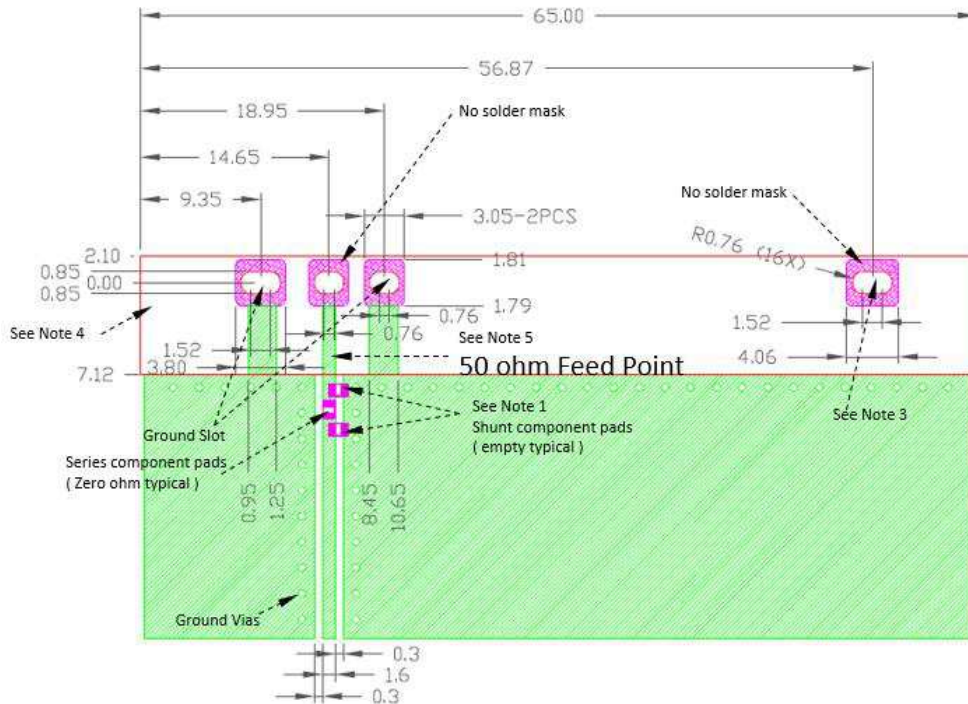


Elevation 2



Data measured in free space and on reference ground plane of 110mm length and 65mm width.
Application data may vary

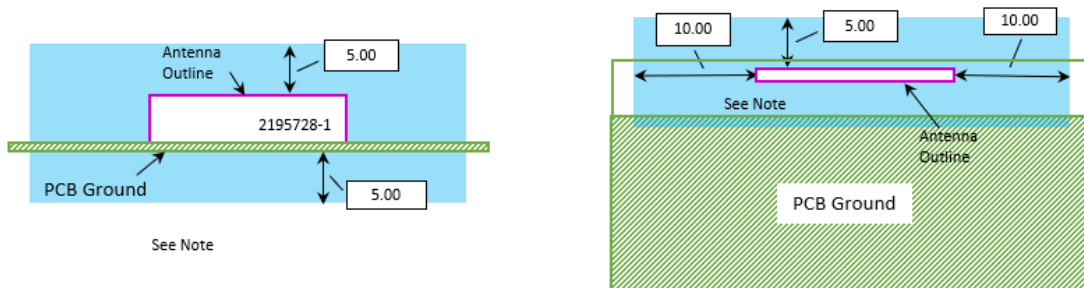
MOUNTING GUIDE



- NOTES :
1. Suggested matching component pads.
 2. Antenna must be mounted on the edge of PCB.
 3. No connection (mechanical mounting pads).
 4. No copper allowed in designated area on all PCB layers -
 5. Thickness is 1.6mm & dielectric is 4.3 for PCB
 6. Reference PCB dimension (mm) : 110 x 65
 7. For more information please call TE.

Dimensions : mm
Diagram is not to scale

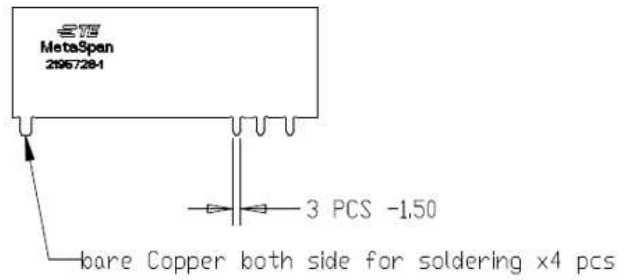
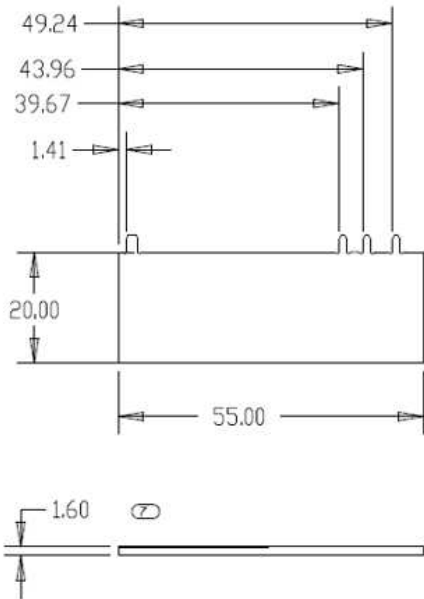
KEEP OUT AREA



- NOTES :
1. Antenna designed to be mounted on plastic cover.
 2. Area in blue above indicates Keep Out Area. This is base on 65x65mm size metal parts.
 3. For more information please call TE.

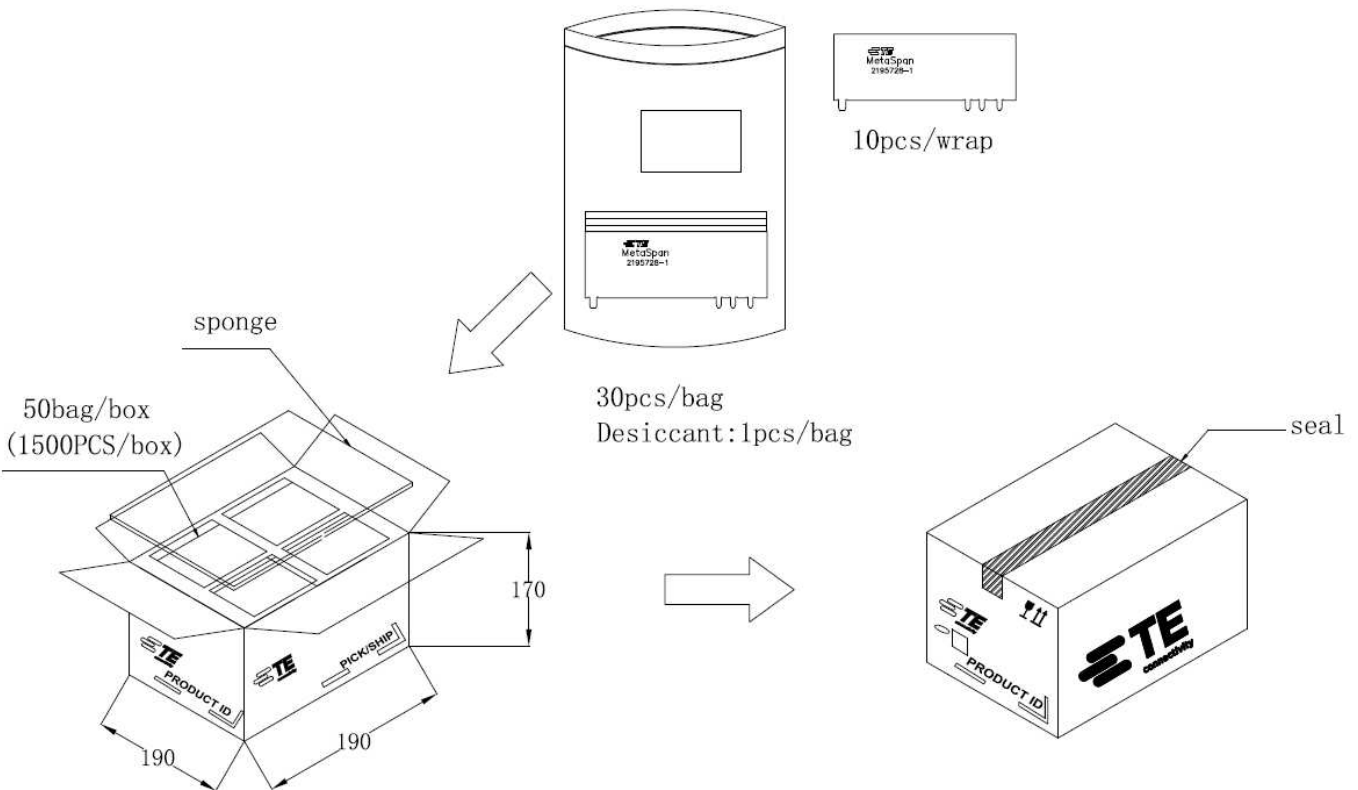
Dimensions : mm
Diagram is not to scale

DIMENSIONS



Dimensions : mm
Diagram is not to scale

PACKAGING



5G/4G/3G/2G, NB-IoT, Cat-M, GNSS WORLD BAND ANTENNA

Standard Antenna Solutions

TE TECHNICAL SUPPORT CENTER

| | |
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| Canada: | +1 (905) 475-6222 |
| Mexico: | +52 (0) 55-1106-0800 |
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| Germany: | +49 (0) 6251-133-1999 |
| UK: | +44 (0) 800-267666 |
| France: | +33 (0) 1-3420-8686 |
| Netherlands: | +31 (0) 73-6246-999 |
| China: | +86 (0) 400-820-6015 |

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