



METASPAN 698-960, 1710-2170 & 2300-2700 MHz LTE / NB-IoT WORLD BAND ANTENNA

Part Number: 2118614-1

FEATURES & BENEFITS

- High efficiency 3G/4G/NB-IoT antenna
- Uses MetaSpan technology for global frequency band coverage
- Minimal keep out zone requirement
- Performance dependent on ground plane size/ design
- PCB type tab mount (through hole technology)

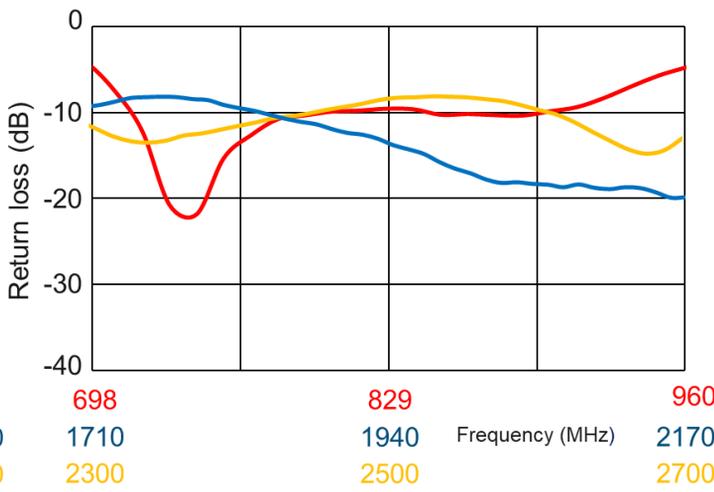
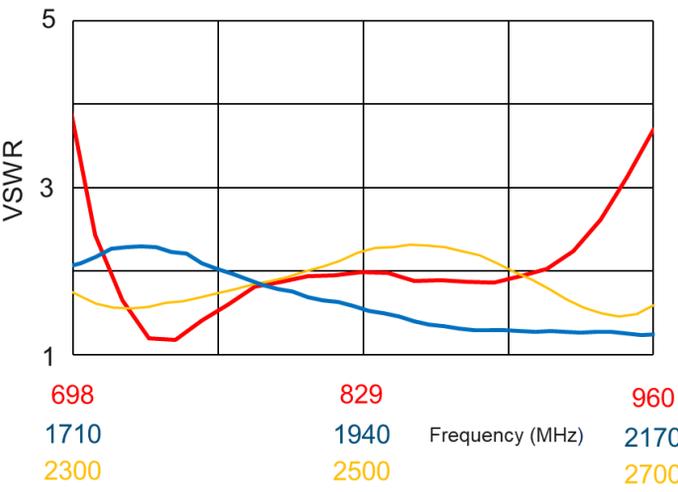
SPECIFICATIONS

| | | | |
|--|--|-----------|-----------|
| Frequency Range (MHz) | 698-960 | 1710-2170 | 2300-2700 |
| VSWR | < 4.0:1 | < 2.5:1 | <2.5:1 |
| Average Efficiency | 65% | 75% | 65% |
| Peak Gain | 1.3dBi | 3.3dBi | 2.1dBi |
| Average Gain | -1.9dBi | -1.3dBi | -1.9dBi |
| Power Handling | 10 Watt cw | | |
| Feed Point Impedance | 50 ohms unbalanced | | |
| Polarization | Linear | | |
| Size | 50.0 mm x 20.0 mm x 1.64 mm | | |
| Weight | < 2.0 g | | |
| Mounting | TAB mount, through hole technology | | |
| 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 GND plane of 109 mm length and 72.5 mm width, application data might vary | | | |

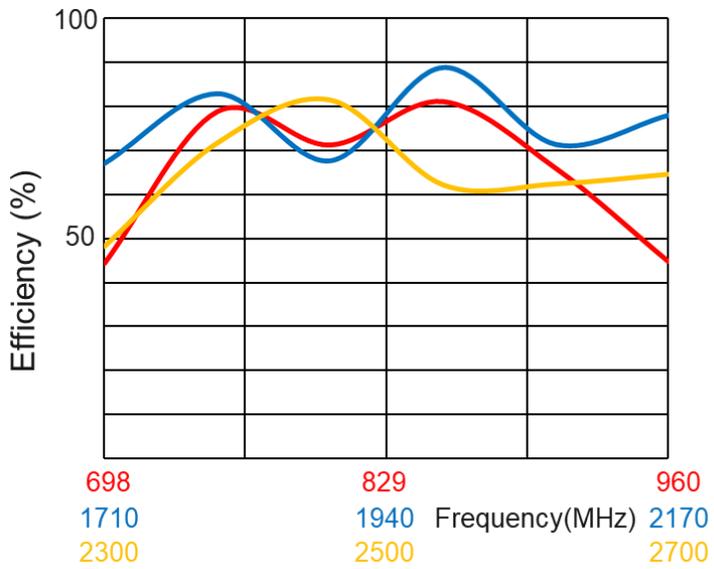
RF DATA

VSWR

Return Loss

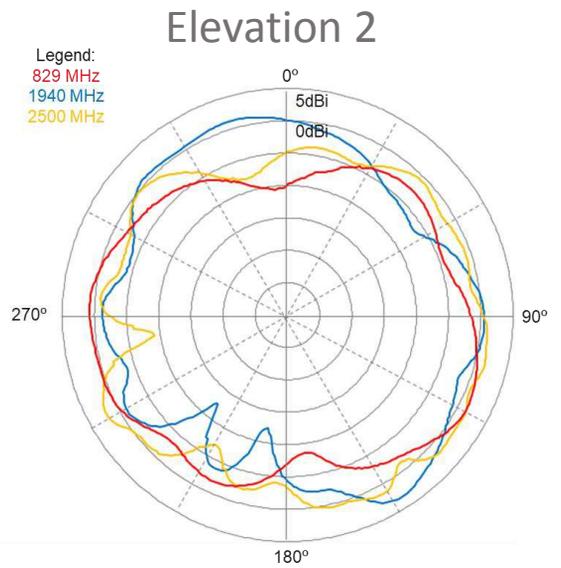
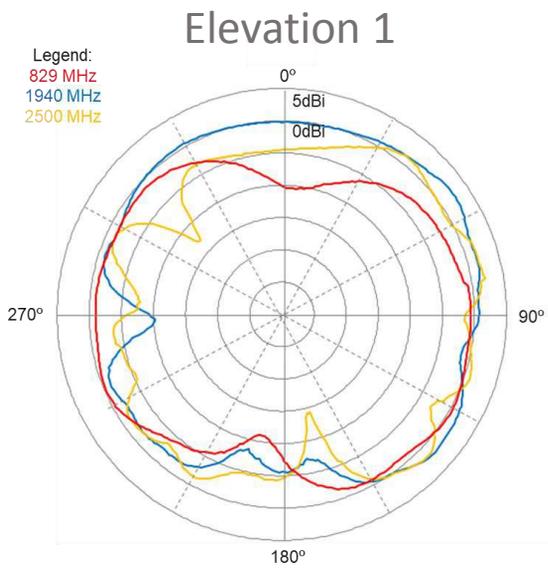
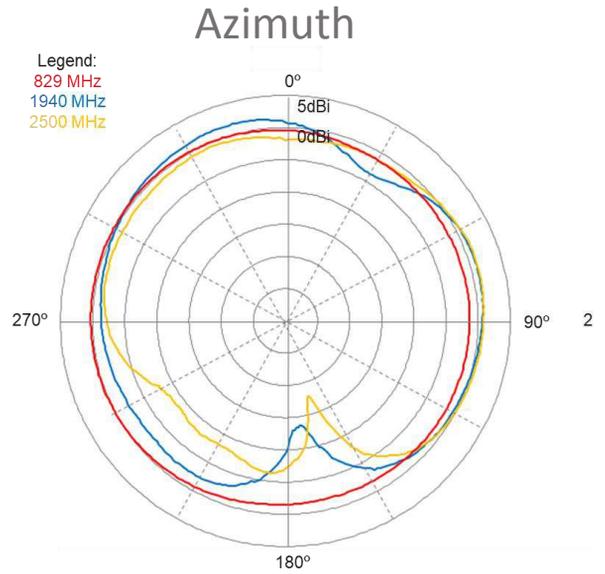
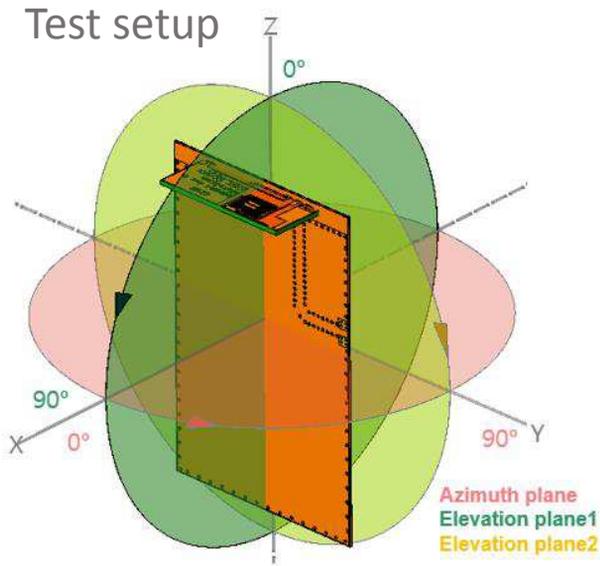


Efficiency



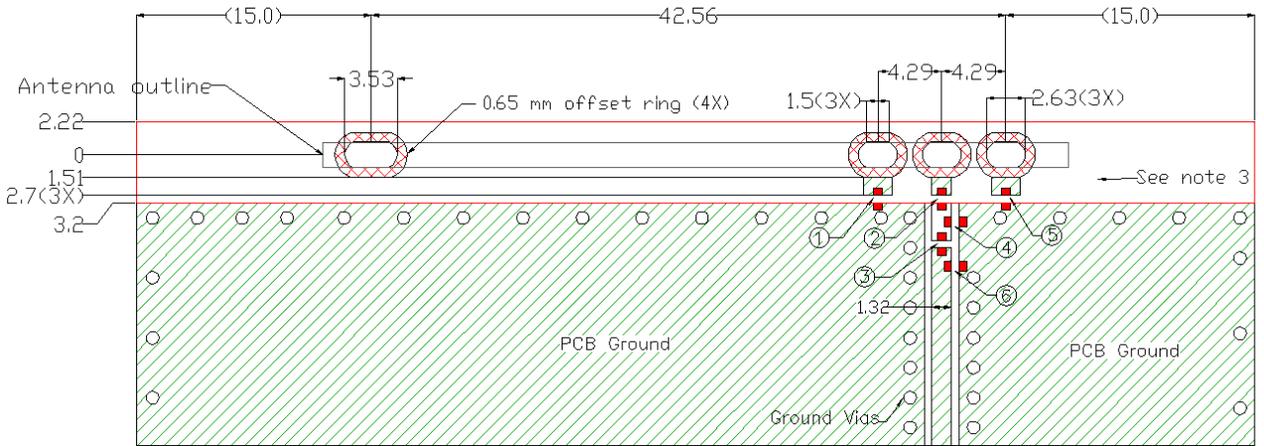
Data measured in free space and on reference GND plane of 109 mm length and 72.5 mm width, application data might vary

RADIATION PATTERN



Data measured in free space and on reference GND plane of 109 mm length and 72.5 mm width, application data might vary

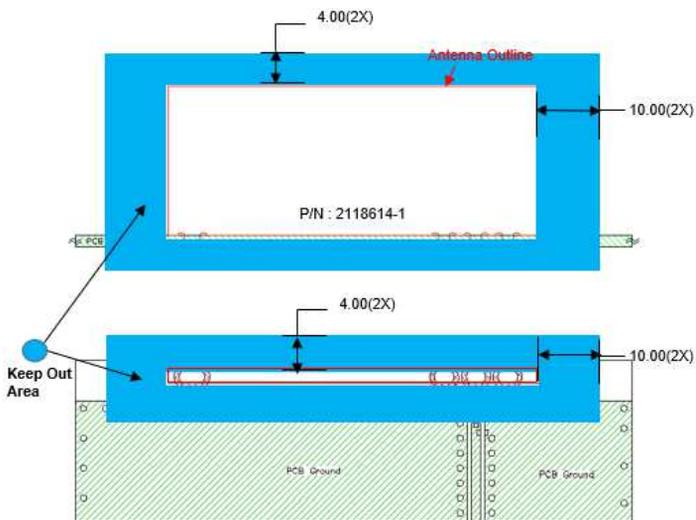
MOUNTING GUIDE



- NOTES: 1. Antenna must be mounted on the edge of PCB.
 2. NC = No connection (mechanical mounting pads).
 3. No copper allowed in designated area on all PCB layers –
 4. For more information please call TE.
 5. Measured with below matching circuit condition.
 ① 1nH, ② 1.8nH, ③ 4.7pF, ④ 12nH, ⑤ 1nH, ⑥ NC
 6. Contact TE if keep out zone cannot be guaranteed

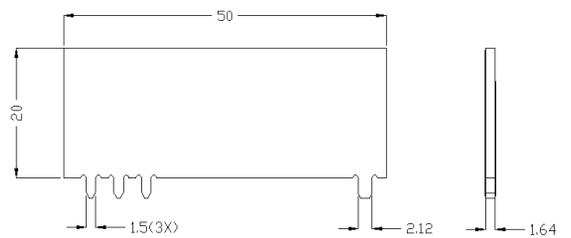
Dimension: mm
 Diagrams is not into scale

KEEP OUT AREA



Dimension: mm
 Diagrams is not into scale

DIMENSIONS

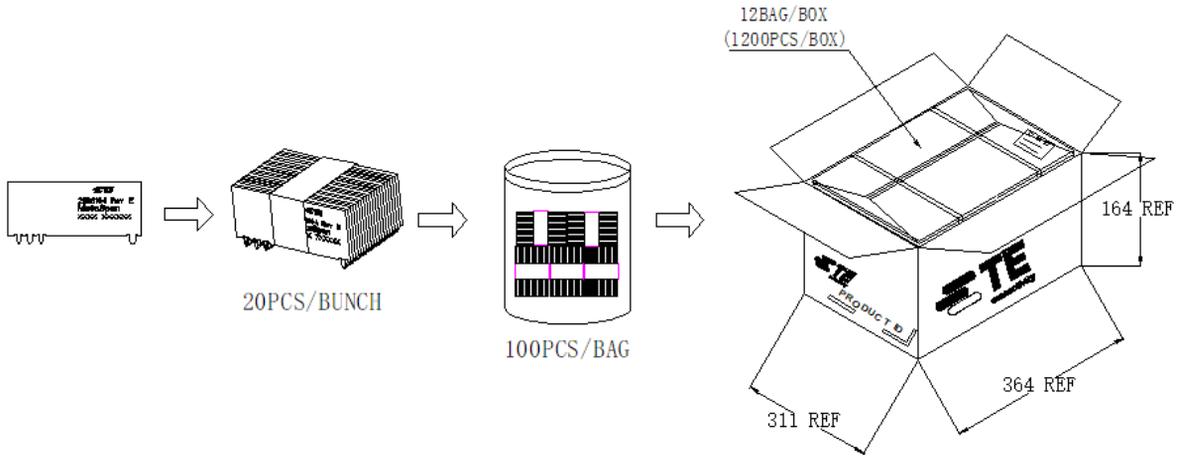


Dimension: mm
 Diagrams is not into scale

LTE / NB-IoT WORLD BAND ANTENNA

Standard Antenna Solutions

PACKAGING



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- Latin/S. America: +54 (0) 11-4733-2200
- Germany: +49 (0) 6251-133-1999
- UK: +44 (0) 800-267666
- France: +33 (0) 1-3420-8686
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