



METASPAN

698-960, 1710-2170 & 2300-2700 MHz

LTE / NB-IoT

WORLD BAND ANTENNA

Part Numbers: 2118903-1

FEATURES & BENEFITS

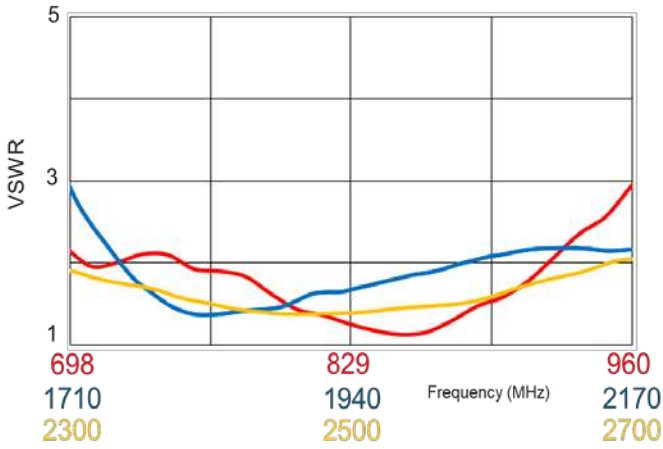
- High efficiency 3G/4G/NB-IoT antenna
- Uses MetaSpan technology for global frequency band coverage
- No matching circuits required

SPECIFICATIONS

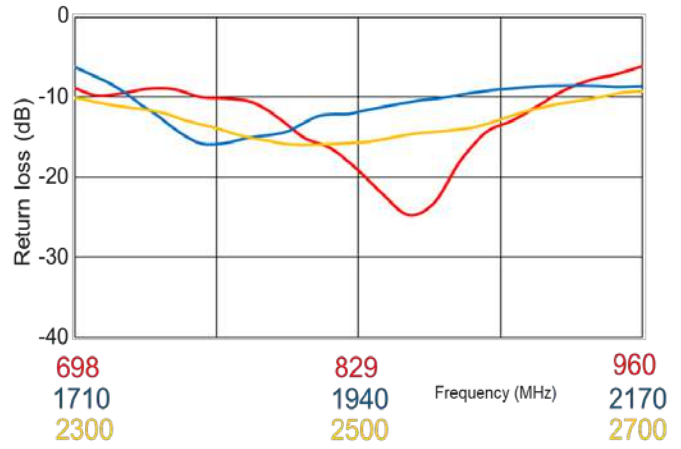
Frequency Range (MHz)	698 - 960	1710 - 2170	2300 – 2700
VSWR	< 3.0:1	< 3.0:1	< 1.6:1
Average Efficiency	81 %	72 %	80 %
Peak Gain	2.6 dBi	2.8 dBi	3.7 dBi
Average Gain	-1.0 dBi	-1.5 dBi	-1.0 dBi
Power Handling	3 Watt cw		
Feed Point Impedance	50 ohms		
Polarization	Linear		
Size	75.0 mm x 11.9 mm x 1.64 mm		
Weight	< 3.0 g		
Mounting	SMD		
Mating Connectors	N/A		
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 112 mm length and 75 mm width, application data might vary			

RF DATA

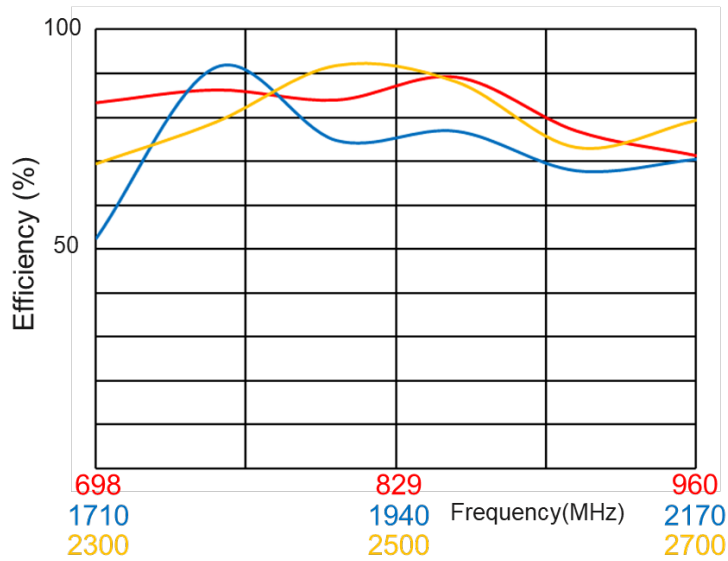
VSWR



Return Loss



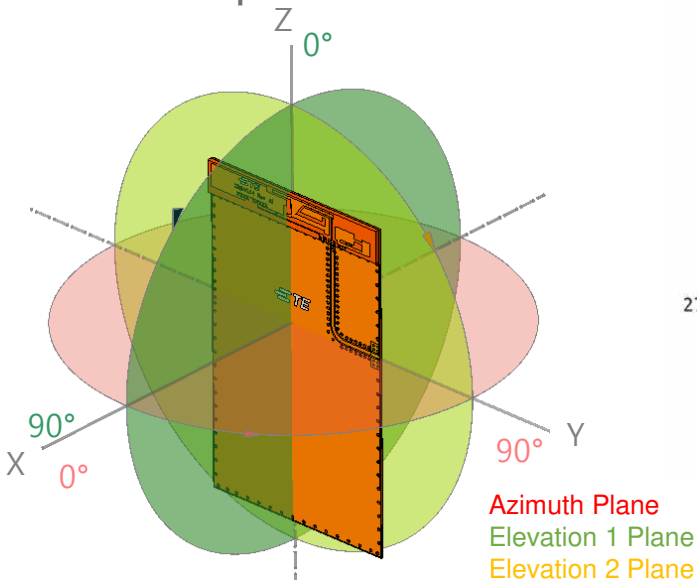
Efficiency



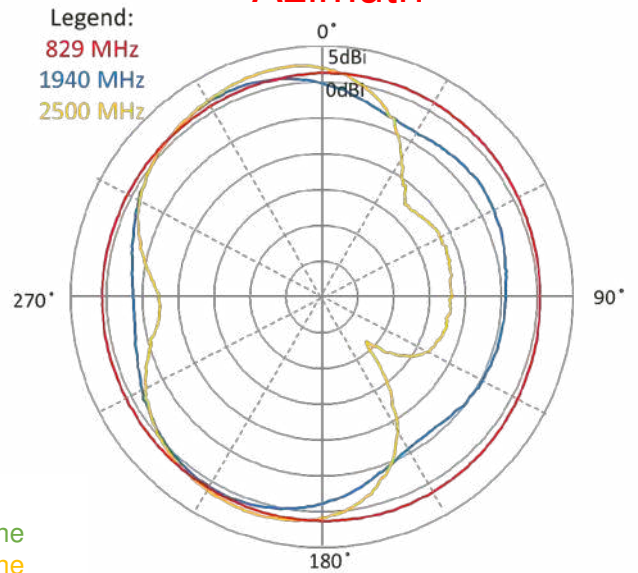
Data measured in free space and on plastic device enclosure

RADIATION PATTERN

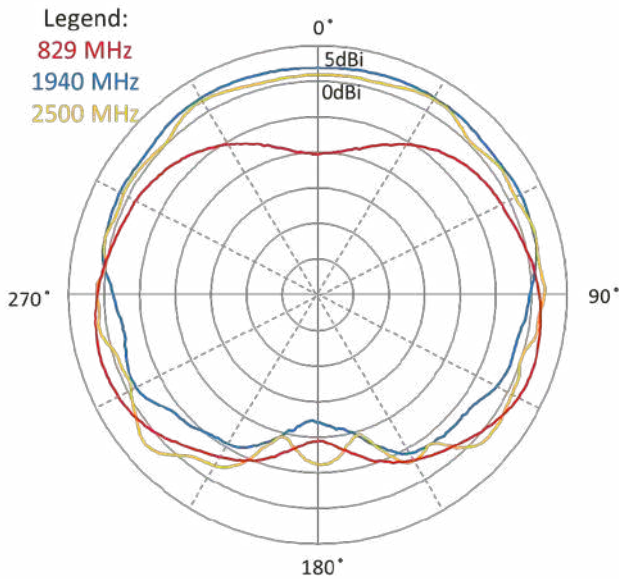
Test setup



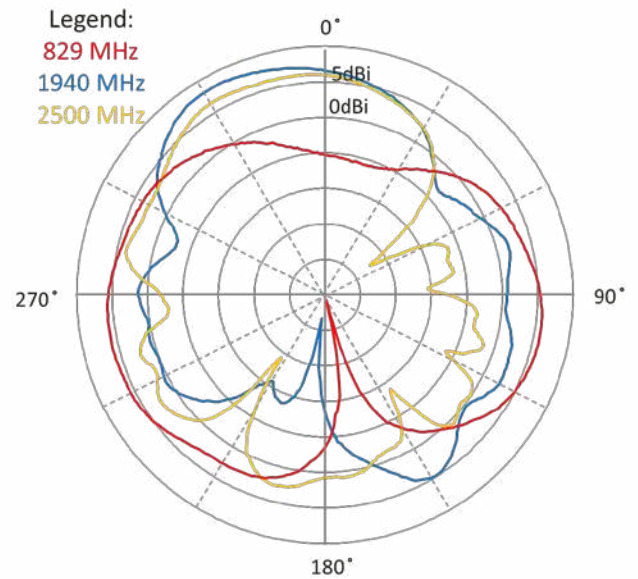
Azimuth



Elevation 1

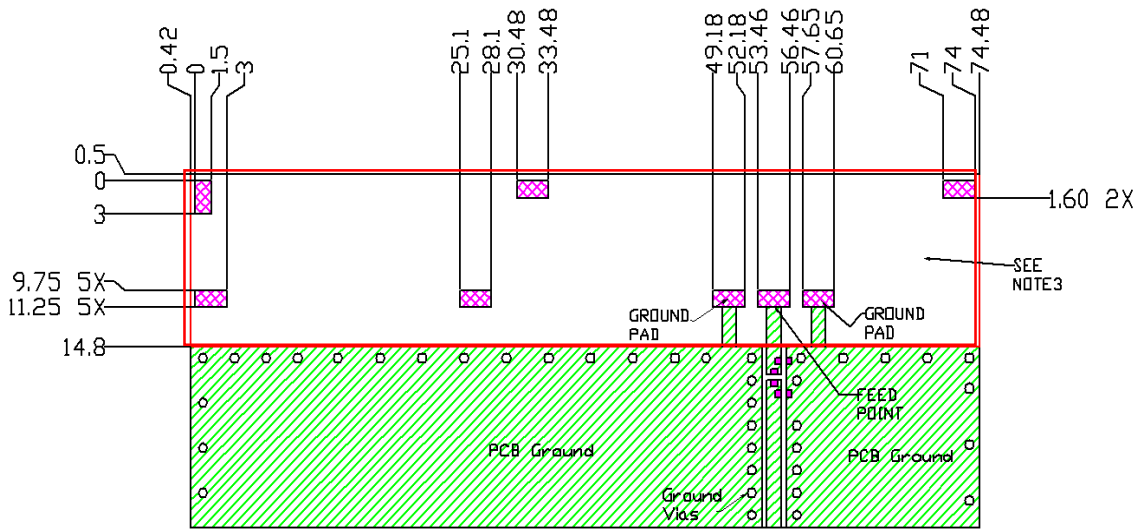


Elevation 2



Data measured in free space and on plastic device enclosure

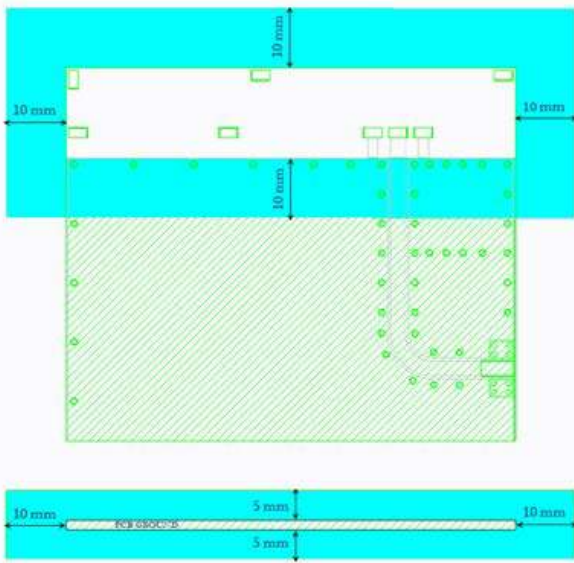
MOUNTING GUIDE



- NOTES: 1. Suggested matching component pads.
 2. Antenna must be mounted on the edge of PCB.
 3. NC = No connection (mechanical mounting pads).
 4. No copper allowed in designated area on all PCB layers –
 5. For more information please call TE.

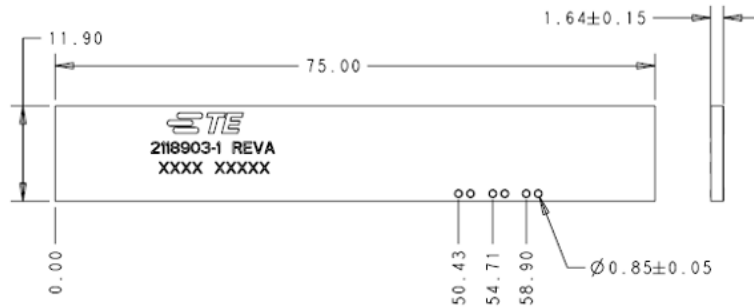
Dimension: mm
 Diagrams is not into scale

KEEP OUT AREA



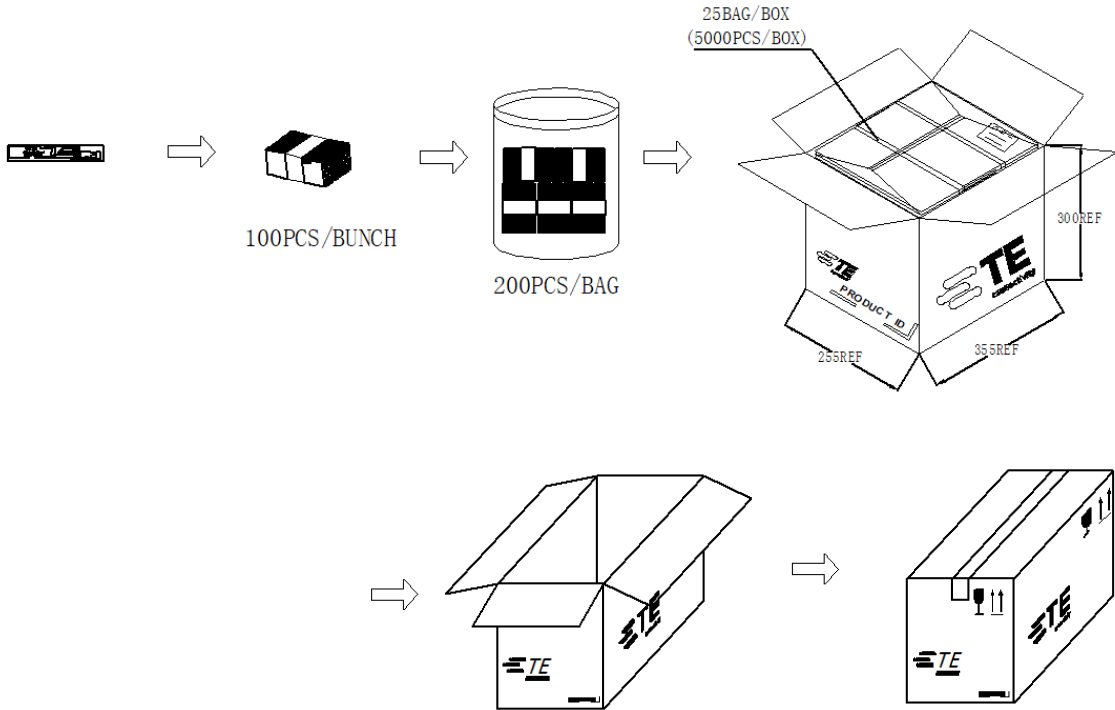
Dimension: mm
 Diagrams is not into scale

DIMENSIONS



Dimension: mm
 Diagrams is not into scale

PACKAGING



TE TECHNICAL SUPPORT CENTER

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- Germany: +49 (0) 6251-133-1999
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