



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

Part Numbers: 2118903-1

FEATURES & BENEFITS

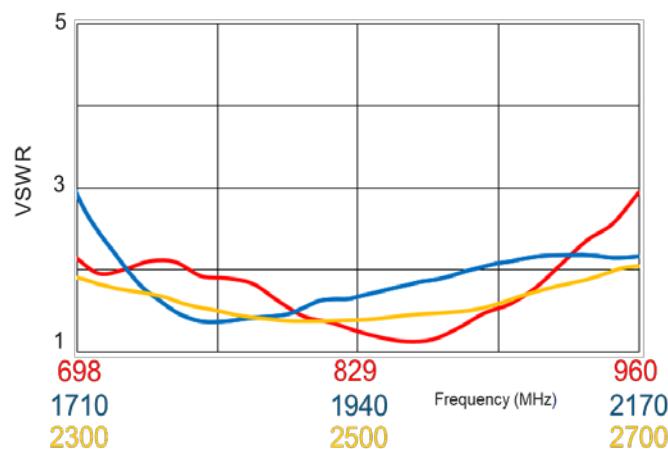
- High efficiency 3G/4G/NB-IoT antenna
- Uses MetaSpan technology for global frequency band coverage
- No matching circuits required

SPECIFICATIONS

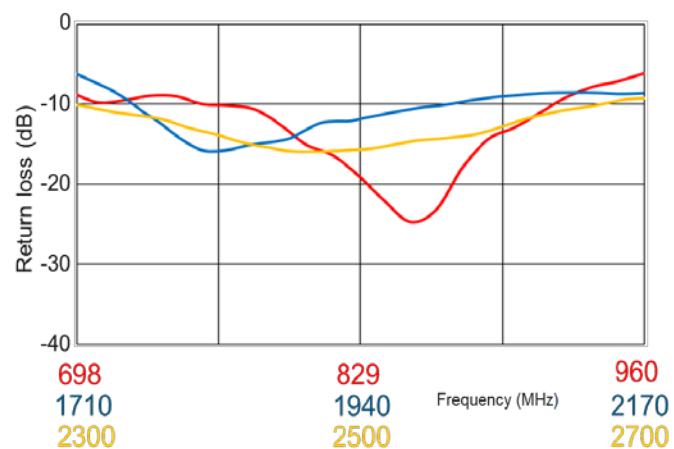
Frequency Range (MHz)	698 - 960	1710 - 2170	2300 – 2700
VSWR	< 3.0:1	< 3.0:1	< 1.6:1
Average Efficiency	81 %	72 %	80 %
Peak Gain	2.6 dBi	2.8 dBi	3.7 dBi
Average Gain	-1.0 dBi	-1.5 dBi	-1.0 dBi
Power Handling	3 Watt cw		
Feed Point Impedance	50 ohms		
Polarization	Linear		
Size	75.0 mm x 11.9 mm x 1.64 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

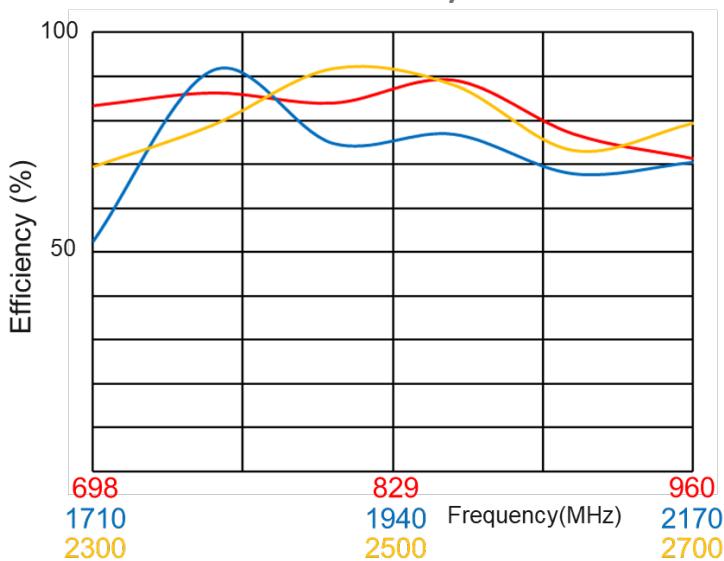
VSWR



Return Loss



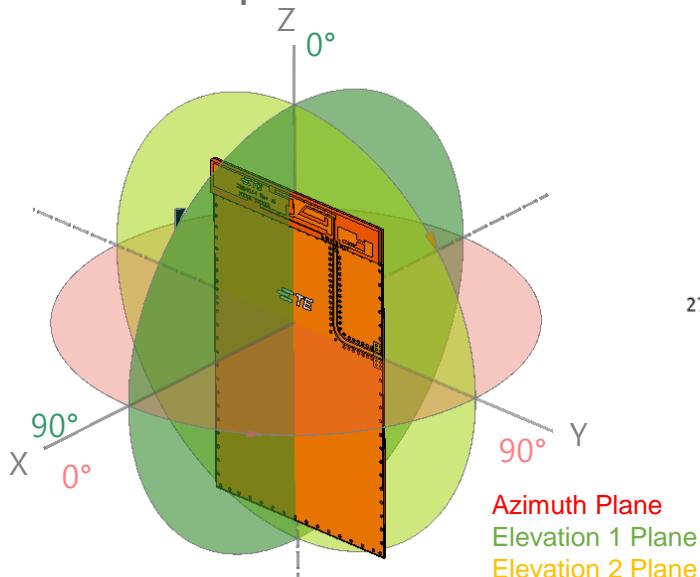
Efficiency



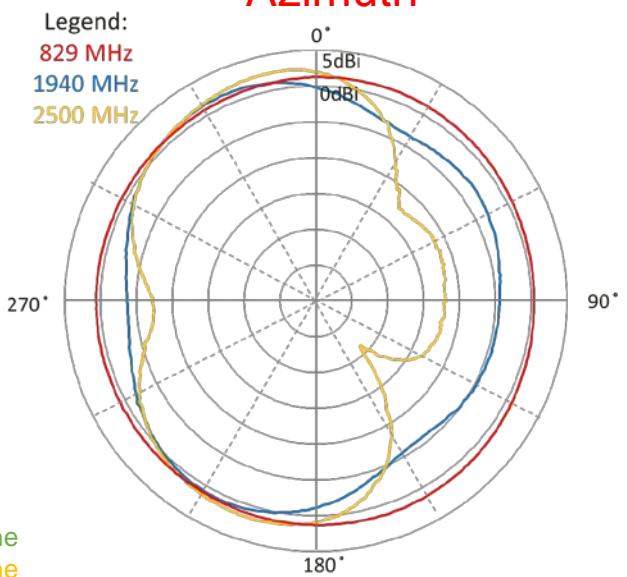
Data measured in free space and on plastic device enclosure

RADIATION PATTERN

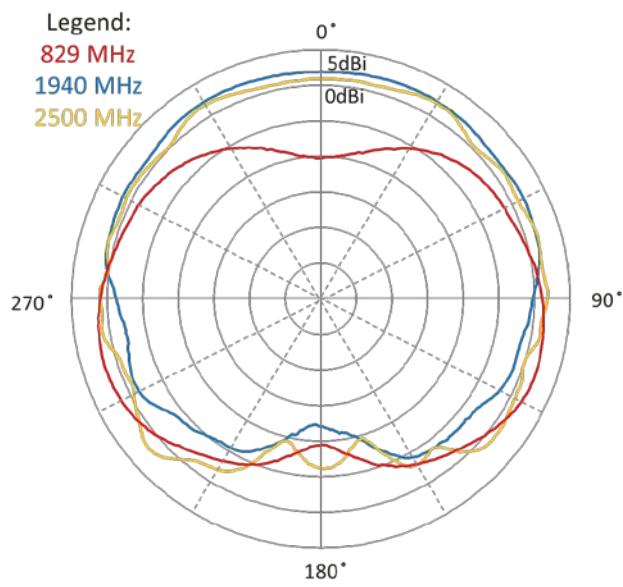
Test setup



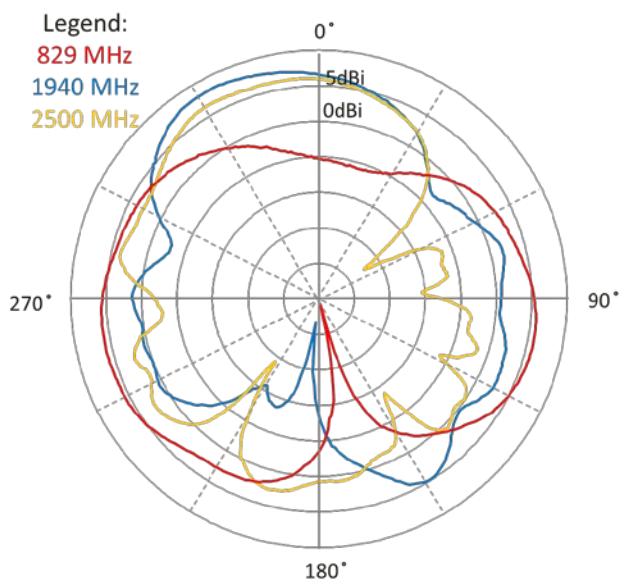
Azimuth



Elevation 1

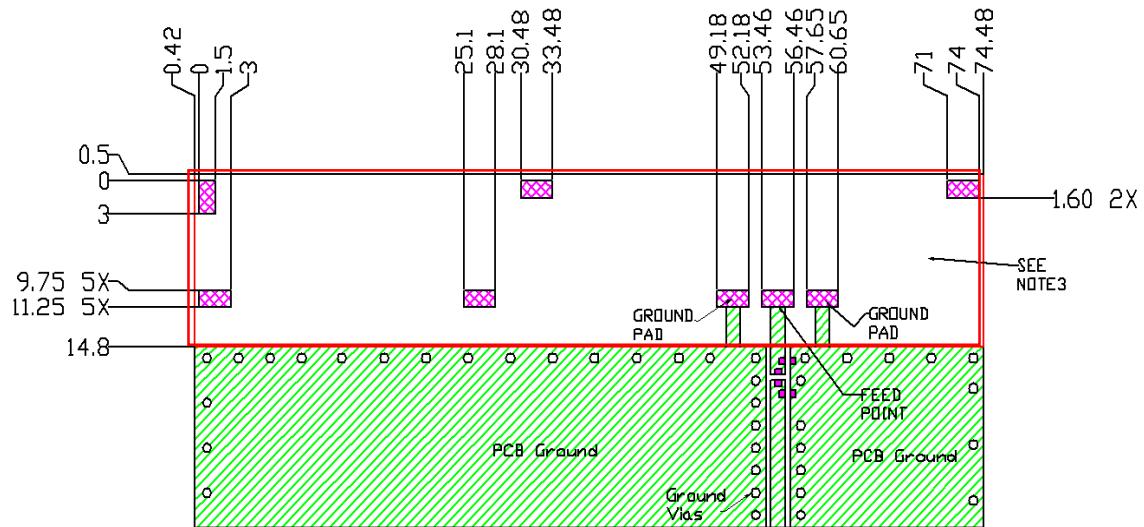


Elevation 2



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).

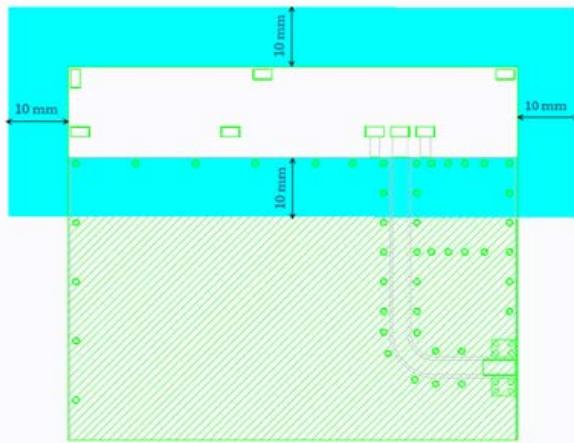
4. No copper allowed in designated area on all PCB layers –

Dimension: mm

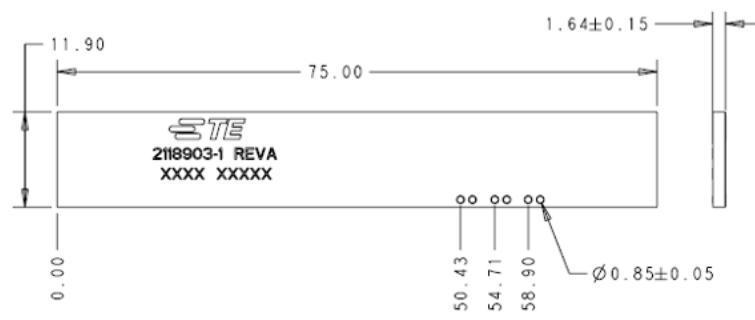
Diagrams is not into scale

5. For more information please call TE.

KEEP OUT AREA



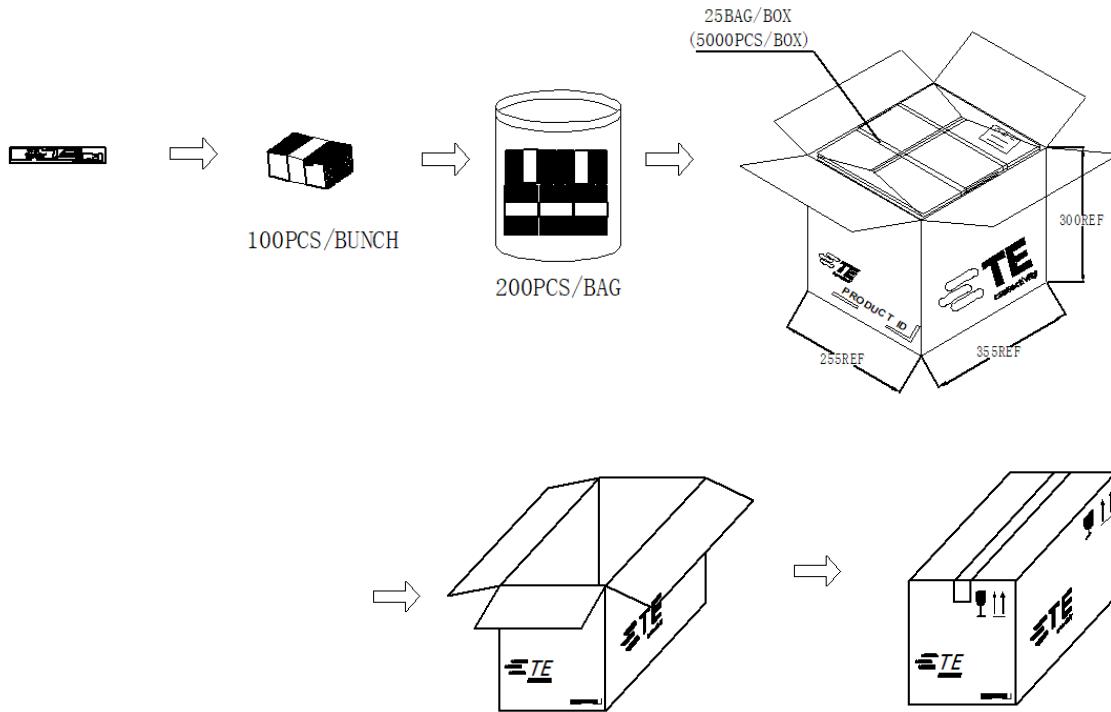
DIMENSIONS



Dimension: mm

Diagrams is not into scale

PACKAGING



TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
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
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

For phone numbers in other countries, go to te.com/support-center

te.com

TE Connectivity, TE Connectivity (logo) are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2020 TE Connectivity Ltd. family of companies All Rights Reserved.

06/2021