



# 698-960, 1710-2170 & 2300-2700 MHz LTE/CELL BAND ANTENNA

## Standard Antenna Solutions

LTE, NB-IoT, LTE Cat-M, World band products

Part Number: 2108994-1

### PRODUCT FACTS:

- Spherical omnidirectional
- Small and lightweight
- Available in tape & reel for automatic mounting
- RoHS compliant

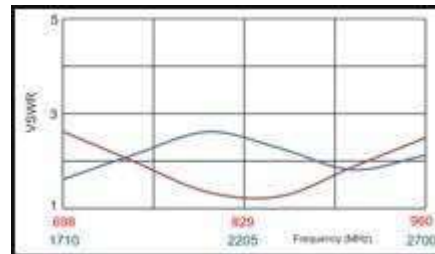
### RECOMMENDATIONS:

- Minimal matching circuits required
- Bandwidth and performance is dependent on ground plane size
- The following data is based on 140mm ground size in free space
- Ground plane is the top layer of the PCB

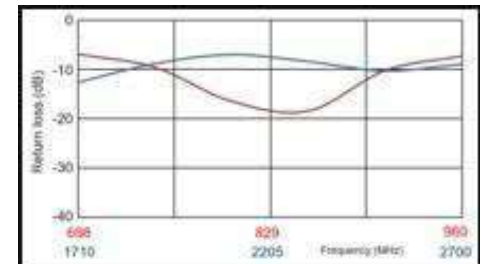
### SPECIFICATIONS:

- Frequency Range: 698 - 960 MHz; 1710 - 2170 MHz; 2300 - 2700 MHz
- Peak Gain:
  - 0.7 dBi @ 710 MHz
  - 0.9 dBi @ 824 MHz
  - 1.1 dBi @ 925 MHz
  - 2.3 dBi @ 1755 MHz
  - 2.2 dBi @ 1880 MHz,
  - 0.7 dBi @ 2170 MHz
  - 1.3 dBi @ 2500 MHz
- VSWR: < 3.0
- Return loss: < -7.0 dB
- Polarization: Linear
- Power Handling: 3 Watt cw
- Size: 40.0 mm x 10.0 mm x 3.2 mm
- Weight: 2.5g
- Keep Out Area: See diagram on page 3
- Mounting: Surface-mount technology
- Operating Temperature: -40 to 85°C
- Storage Temperature: -40 to 85°C

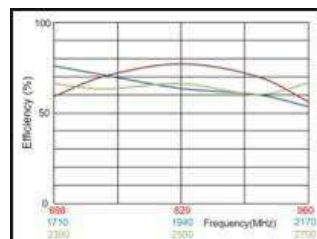
### VSWR:



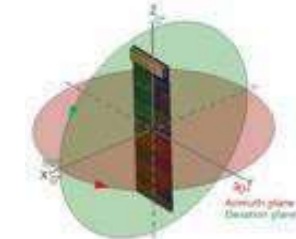
### RETURN LOSS:



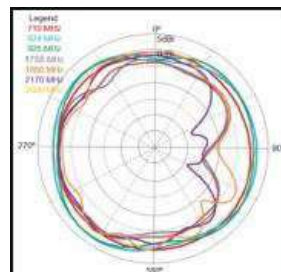
### EFFICIENCY:



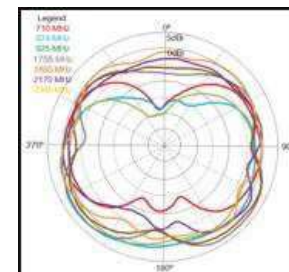
### TEST ORIENTATION IN FREE SPACE:




### AZIMUTH:



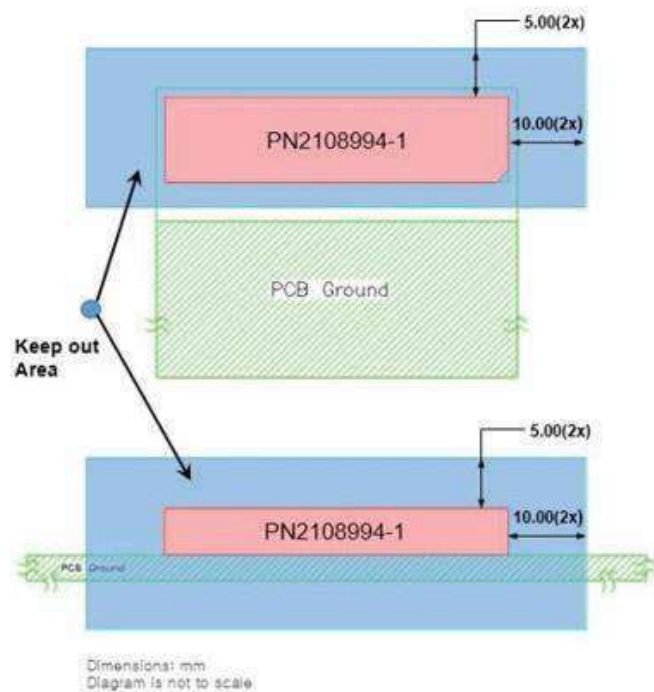
### ELEVATION:



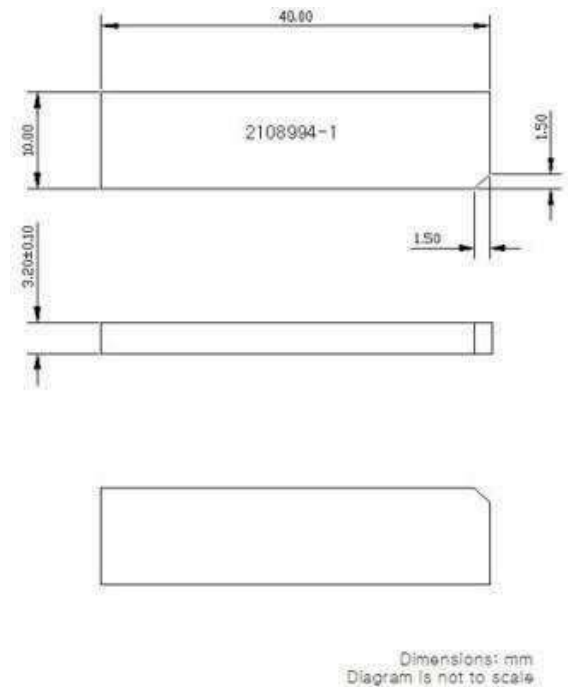
- NOTES:** 1. Antenna must be mounted on the edge of PCB.  
2. NC = Non connection (mechanical mounting pads)  
3. No copper allowed in designated area on all PCB layer –   
4. For more information please call TE.  
5. Measured with below matching circuit condition.  
①0.5pF, ②2.2nH, ③NC, ④22nH

Dimensions: mm  
Diagram is not to scale

### KEEP OUT AREA:



### APPROXIMATE DIMENSIONS:



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