



### **PRODUCT FACTS:**

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

### **RECOMMENDATIONS:**

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

#### **SPECIFICATIONS:**

- Frequency Range: 698 960 MHz; 1710 21 70 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

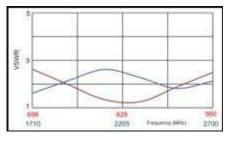


**Standard Antenna Solutions** 

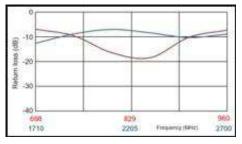
LTE, NB-IoT, LTE Cat-M, World band products

Part Number: 2108994-1

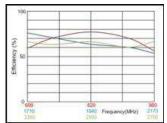
### VSWR:



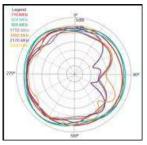
# **RETURN LOSS:**



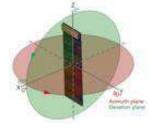
# EFFICIENCY:



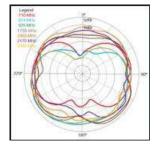
## AZIMUTH:



TEST ORIENTATION IN FREE SPACE:

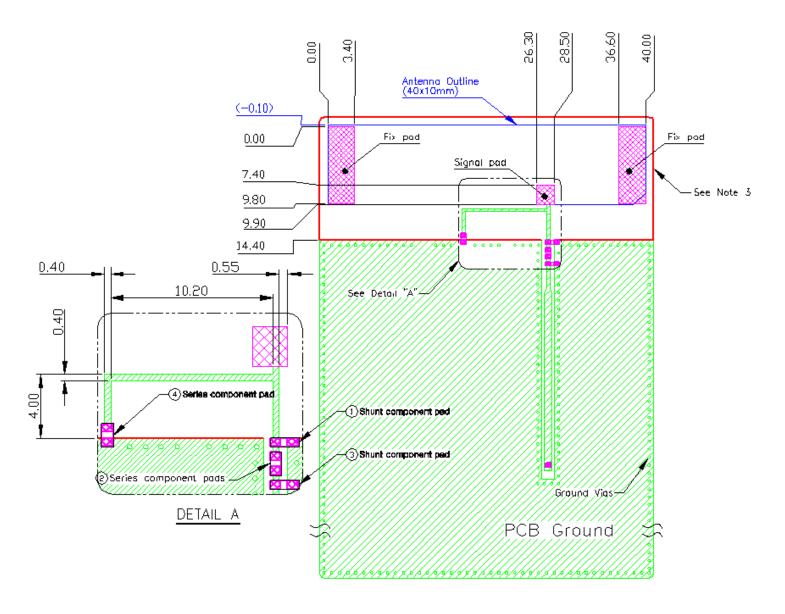


## **ELEVATION:**



DATA AND DEVICES #698-960, 1710-2170 & 2300-2700 MHZ LTE/CELL BAND ANTENNA

MOUNTING GUIDE:

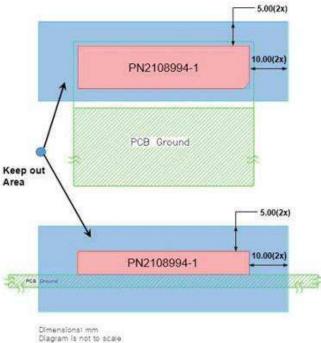


NOTES: 1. Antenna must be mounted on the edge of PCB.

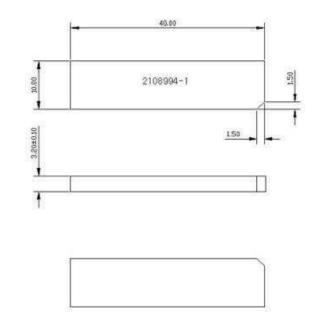
- 2. NC = Non connection (mechanical mounting pads)
- 3. No copper allowed in designated area on all PCB layer -
- 4. For more information please call TE.
- 5. Measured with below matching circuit condition.
  - (1)0.5pF, (2)2.2nH, (3)NC, (4)22nH

Dimensions: mm Diagram is not to scale

## **KEEP OUT AREA:**



### **APPROXIMATE DIMENSIONS:**



Dimensions: mm Diagram is not to scale

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