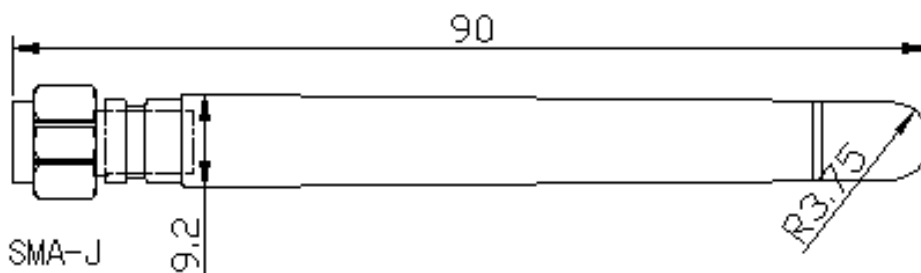


GSM Antenna

Part Number: VTGSMA-5-4



1 Dimension (Unit: mm)



2 Electrical Characteristics

3.1 Dielectric Antenna

Form 1

| No. | Item | Specifications | Post Environmental Tolerance |
|-----|------------------|----------------|------------------------------|
| 1 | Frequency (MHz) | 900MHz | ±3 MHz |
| 2 | V.S.W.R (in BW) | ≤1.6 : 1 | — |
| 3 | Gain (Zenith) | 3 dB | ±0.5 dB |
| 4 | Polarization | Vertical | — |
| 5 | Impedance | 50 Ω | — |

3.2 Mechanical

Form 2

| No. | Item | Specification |
|-----|-------|---------------|
| 1 | Cable | — |

V.TORCH

| | | |
|---|-----------------|-----------|
| 2 | Connector | SMA-J |
| 3 | Plastic Housing | Black |
| 4 | Size | Φ9.2×90mm |

4 Reliability

Condition: Temperature: 40±5°C

Load: DC=5V±0.5 V

Quantity: 2000pcs

Sustained Time: 480h

5 Environmental Specifications

Condition:

Post Environmental Tolerance (Refer to the form 1)

Temperature range 25±3°C

Relative Humidity range 55~75%RH

Operating Temperature range -40°C~+85°C

Storage Temperature range -40°C~+100°C

5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form 1 after exposed to the temperature 40±2°C and the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under normal condition.

5.2 Vibration Resist

The device should satisfy the electrical characteristics specified in form 1 after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X , Y and Z directions.

5.3 Drop Shock

The device should satisfy the electrical characteristics specified in form 1 after dropping onto the hard wooden board from the height of 30cm for 3 times each facet of the 3 dimensions of the device.

5.4 High Temperature Endurance

The device should satisfy the electrical characteristics specified in form 1 after exposed to temperature 80±5°C for 24±2 hours and 1~2 hours recovery time under normal temperature.

5.5 Low Temperature Endurance

The device should also satisfy the electrical characteristics specified in form 1 after exposed to the temperature -40°C±5°C for 24±2 hours and to 2 hours recovery time under normal temperature.

5.6 Temperature Cycle Test

The device should also satisfy the electrical characteristics specified in form 1 after exposed to the low temperature -25°C and high temperature +85°C for 30±2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.