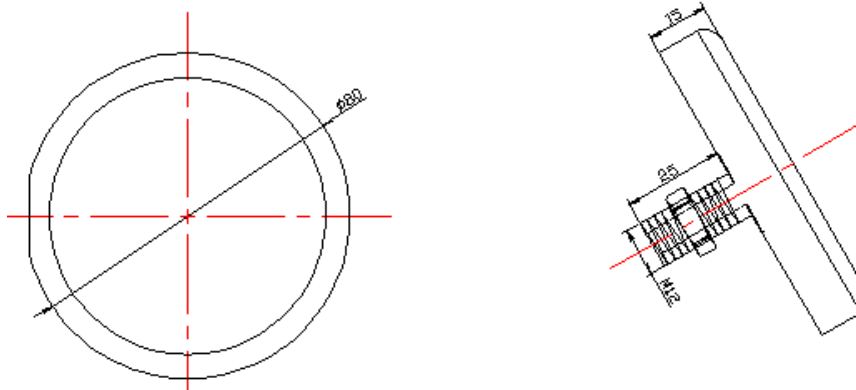


GSM Antenna

Part Number: VTGSMA-1



1 Dimension (Unit: mm)



2 Electrical Characteristics

3.1 GSM Antenna

Form 1

No.	Item	Specifications	Post Environmental Tolerance
1	Center Frequency	880MHz~960MHz/1710MHz~1990MHz	±3 MHz
2	V.S.W.R	2.0 : 1	—
3	Gain (Zenith)	2dB±1dB@900MHz or 1dB±1dB@1800MHz	±0.5dB
4	Impedance	50Ω	±2 Ω

3.2 Mechanical

Form 2

No.	Item	Specification
1	Cable	RG 174 3m/5m or others
2	Connector	SMA/SMB/MCX or others

V.TORCH

3	Plastic Housing	Black or White
4	Mounting	Screw/Magnetic/Stick

4 Reliability

Condition: Temperature: $40\pm 5^{\circ}\text{C}$

Load: $\text{DC}=5\text{V}\pm 0.5\text{V}$

Quantity: 2000pcs

Sustained Time: 480h

5 Environmental Specifications

Condition:

Post Environmental Tolerance (Refer to the form 1)

Temperature range $25\pm 3^{\circ}\text{C}$

Relative Humidity range 55~75%RH

Operating Temperature range $-40^{\circ}\text{C}\sim +85^{\circ}\text{C}$

Storage Temperature range $-40^{\circ}\text{C}\sim +100^{\circ}\text{C}$

5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form 1 after exposed to the temperature $40\pm 2^{\circ}\text{C}$ 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 $80\pm 5^{\circ}\text{C}$ 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 $-40^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 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 $+85^{\circ}\text{C}$ for 30 ± 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.