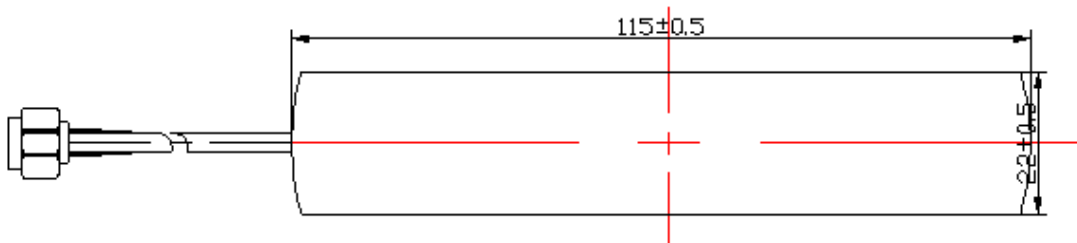


GSM Antenna

Part Number: VTGSMA-3



1 Dimension (Unit: mm)



2 Electrical Characteristics

3.1 Dielectric Antenna

Form 1

No.	Item	Specifications	Post Environmental Tolerance
1	Frequency (MHz)	870~960MHz/1710~1990 MHz	±3 MHz
2	V.S.W.R (in BW)	≤1.6 : 1	—
3	Gain (Zenith)	3.5 dB	±0.5 dB
4	Polarization	Vertical	—
5	Impedance	50 Ω	—

3.2 Mechanical

Form 2

No.	Item	Specification
-----	------	---------------

1	Cable	RG 174 3m/5m or others
2	Connector	SMA/MMCX or others
3	Plastic Housing	Black
4	Size	22×115mm

4 Reliability

Condition: Temperature: 40±5℃

Load: DC=5V±0.5 V

Quantity: 2000pcs

Sustained Time: 480h

5 Environmental Specifications

Condition:

Post Environmental Tolerance (Refer to the table 1 or 2)

Temperature range 25±3℃

Relative Humidity range 55~75%RH

Operating Temperature range -40℃~+85℃

Storage Temperature range -40℃~+100℃

5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in paragraph 3.1~3.2 after exposed to the temperature 40±2℃ 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 paragraph 3.1~3.2 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 paragraph 3.1~3.2 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 paragraph 3.1~3.2 after exposed to temperature 80±5℃ 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 paragraph 3.1~3.2 after exposed to the temperature -40℃±5℃ 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 paragraph 3.1~3.2 after exposed to the low temperature -25℃ and high temperature +85℃ for 30±2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.