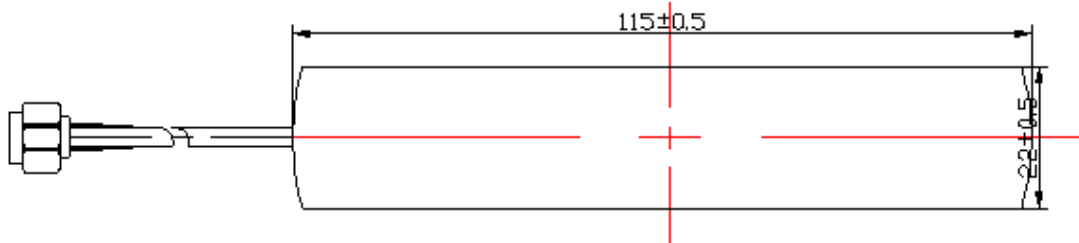


GSM Antenna

Part Number: VTGSMA-3



1 Dimension (Unit: mm)



2 Electrical Characteristics

3.1 Dielectric Antenna

Form 1

No.	Item	Specifications
1	Frequency (MHz)	824~960 MHz/1710~1990 MHz 1920~2170 MHz 2400~2500 MHz
2	V.S.W.R (5m)	$\leq 2.0 : 1$
3	Gain (Zenith)	2 dBi
4	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
5	Mounting	Sticking

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 table 1 or 2)

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 paragraph 3.1~3.2 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 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°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 paragraph 3.1~3.2 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 paragraph 3.1~3.2 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.

V.TORCH