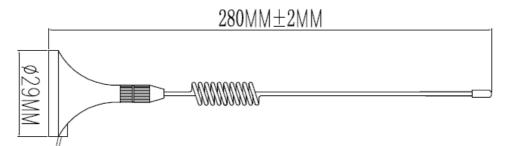


# **GSM** Antenna

# Model: VTGSMA-10



1 Dimension (Unit: mm)



- 2 Electrical Characteristics
- 2.1 GSM Antenna

TOTHT
-------

No.	Item	Specifications	Post Environmental Tolerance
1	Frequency (MHz)	824~896MHz/1710~1990 MHz 880~960MHz/1710~1990 MHz	±3 MHz
2	V.S.W.R (in BW)	≤2.0∶1	—
3	Gain (Zenith)	5 dB	$\pm 0.5~\mathrm{dB}$
4	Polarization	Vertical	
5	Impedance	50 Ω	

2.2 Mechanical

Form 2



No.	Item	Specification	
1	Cable	RG174 3m/5m or others	
2	Connector	SMA/MMCX or others	
3	Plastic Housing	Black	
4	Size	Φ29×280mm	

# 3 Reliability

Condition: Temperature:  $40\pm5^{\circ}$ C

Load: DC=5V±0.5 V Quantity: 2000pcs Sustained Time: 480h

4 Environmental Specifications

#### Condition:

Post Environmental Tolerance (Refer to the form 1) Temperature range  $25 \pm 3$  °C Relative Humidity range  $55 \sim 75\%$  RH Operating Temperature range -40 °C  $\sim +85$  °C Storage Temperature range -40 °C  $\sim +100$  °C

# 5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form 1 after exposed to the temperature  $40 \pm 2^{\circ}$ 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  $80\pm5^{\circ}$ C for  $24\pm2$  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  $-40^{\circ}C \pm 5^{\circ}C$  for  $24 \pm 2$  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  $-25^{\circ}$ C and high temperature  $+85^{\circ}$ C for  $30\pm 2$  min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.