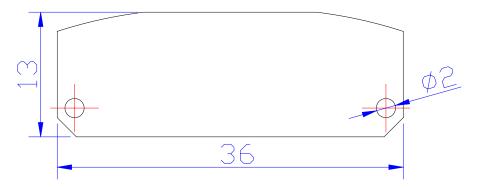


GSM Internal Antenna

Part Number: VTGSMIA-1



1 Dimension (Unit: mm)



2 Electrical Characteristics

2.1 GSM Antenna

Form 1

No.	Item	Specifications	Post Environmental Tolerance
1	Frequency (MHz)	824~960MHz/1710~1990 MHz	±3 MHz
2	V.S.W.R(in BW)	≤2.0∶1	_
3	Gain (Zenith)	1 dB	±0.5 dB
4	Impedance	50 Ω	_

2.2Mechanical

Form 2

No.	Item	Specification
1	Cable	RF1.13 or others
2	Connector	IPEX or others

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	3	Size	36*13mm
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3 Reliability

Condition: Temperature: 40±5°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±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 $-40^{\circ}\text{C}\pm5^{\circ}\text{C}$ 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 $+85^{\circ}$ C for 30±2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

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