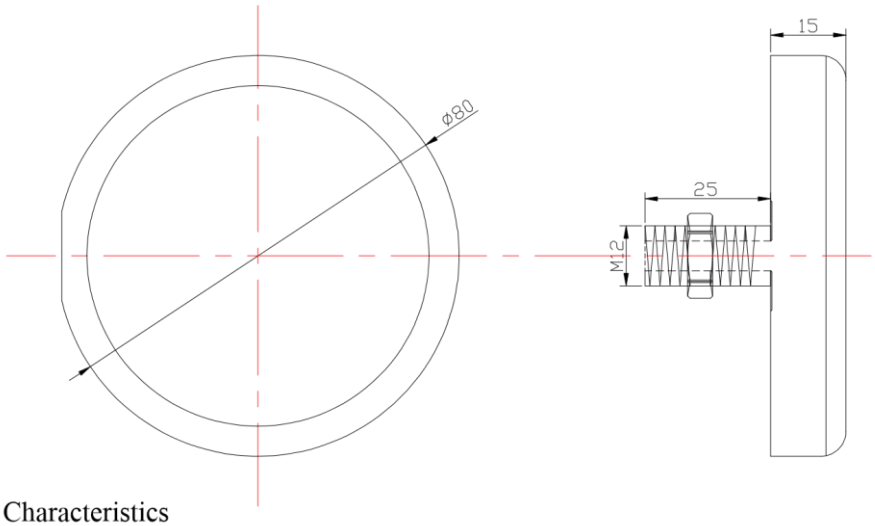
IPmotion™
Home of the CAR-A-WAN

WiFi Antenna

Model：IPM-JCW046-E

1 Part Number: IPM-JCW046-E

2 Dimension（Unit：mm）



3 Electrical Characteristics

3.1 Dielectric Antenna

WiFi Antenna

Form 1

No.	Item	Specifications
1	Frequency	2400～2500 MHz
2	V.S.W.R（5m）	≤2.0：1
3	Gain（Zenith）	0 dBi
4	Impedance	50 Ω

3.2 Mechanical

Form 5

No.	Item	Specification
1	Cable	RG174 3m/5m or others
2	Connector	SMA/SMB/MCX or others
3	Plastic Housing	Black
4	Mounting	Screw/Adhesive

3 Reliability

Condition：Temperature: 40±5℃
Load: DC=5V±0.5 V
Quantity: 2000pcs
Sustained Time: 48h

4 Environmental Specifications

Post Environmental Tolerance (Refer to the form 1~2)

Condition：Temperature range 25±3℃
Relative Humidity range 55~75%RH
Operating Temperature range -40℃~+85℃
Storage Temperature range -40℃~+85℃

5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form 1~2 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 form 1~2 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 form 1~2 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 form 1~2 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 form 1~2 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 form 1~2 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.