

# YIC



## **2.4G/5.8GHz Flexible PCB Internal Antenna ATIF2458G-3010**

**Datasheet**

## 1. Product Information

### 1.1 Product Description

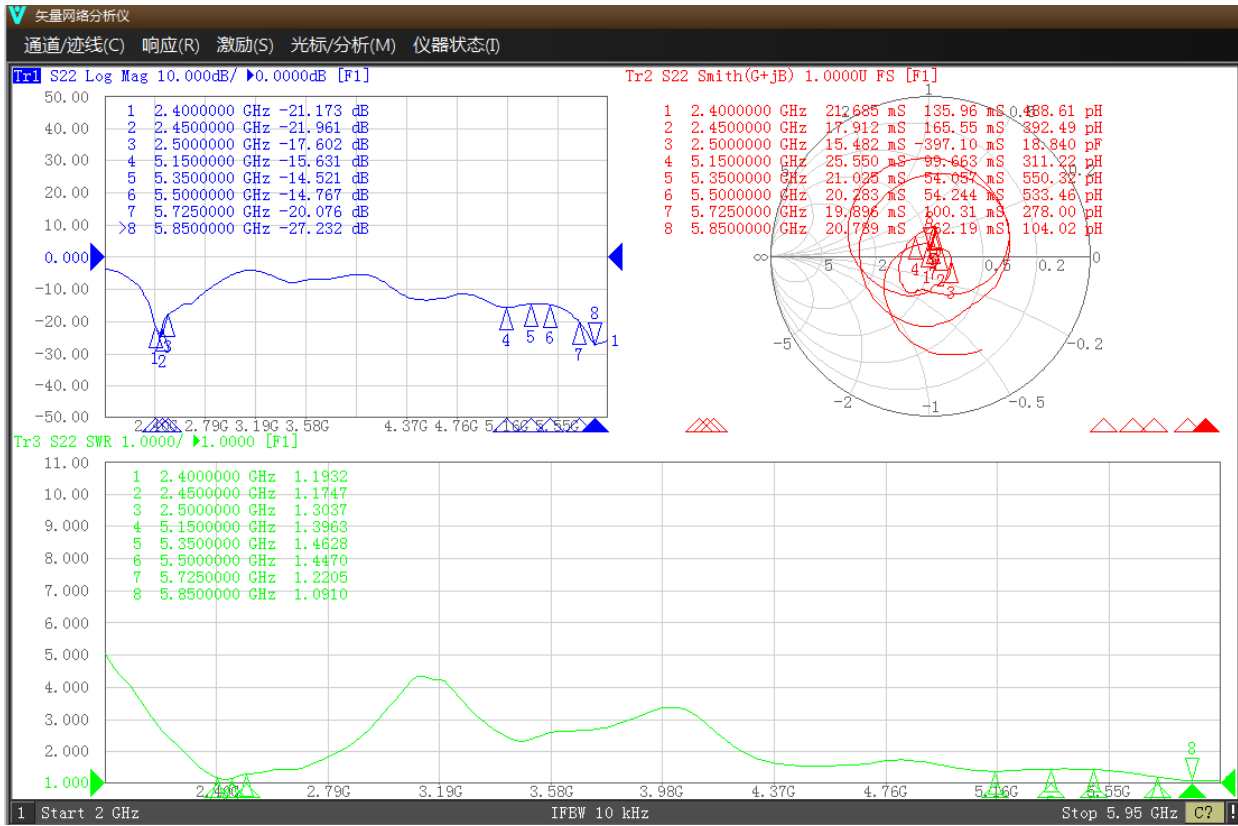
This product can be used as is suitable for wide range Wi-Fi,Bluetooth and Zigbee devices.

## 2. Part NO.: ATIF2458G-3010

## 3. Overall Performance (Antenna Element & Cable)

CHARACTERISTICS	SPEC
Center Frequency	2400~2500MHz / 5150~5850MHz
Gain	3 dBi
Output VSWR	2.0 max
Impedance	50ohm
Polarization	Liner
Radiation	Omni-Direction
Dimensions	30±0.15mm(L) × 10±0.15mm(W)
Cable	60±0.15mm (Φ=1.13mm)
Connector	I-PEX MHF I (U.FL)

## 4. S22

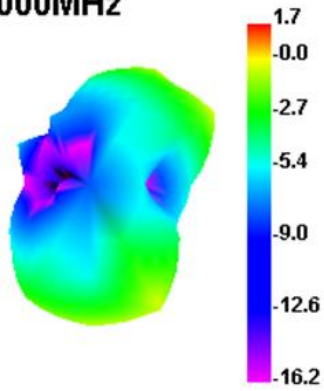


## 5. VSWR

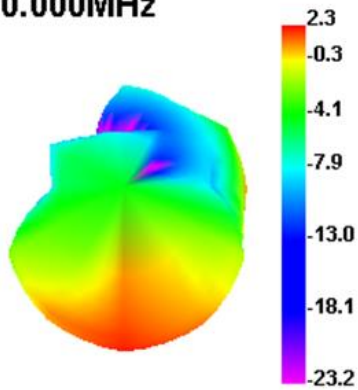
Passive Test For WIFI			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	54.7	-2.6	2.6
2410	55.1	-2.6	2.5
2420	56.1	-2.5	2.6
2430	57.5	-2.4	2.2
2440	58.7	-2.3	1.7
2450	60.4	-2.2	1.8
2460	61.3	-2.1	2.1
2470	60.5	-2.2	2.1
2480	59.9	-2.2	2.0
2490	58.0	-2.4	2.2
2500	57.1	-2.4	2.4
5150	54.8	-2.6	2.3
5200	52.1	-2.8	2.1
5250	51.1	-2.9	2.3
5300	50.1	-3.0	1.9
5350	51.3	-2.9	2.1
5400	54.6	-2.6	2.2
5450	51.4	-2.9	1.5
5500	50.9	-2.9	1.8
5550	49.6	-3.0	1.8
5600	49.9	-3.0	1.8
5650	50.4	-3.0	1.7
5700	50.7	-3.0	1.7
5750	51.4	-2.9	1.9
5800	52.2	-2.8	2.1
5850	55.4	-2.6	2.4

## 6. Radiation Pattern

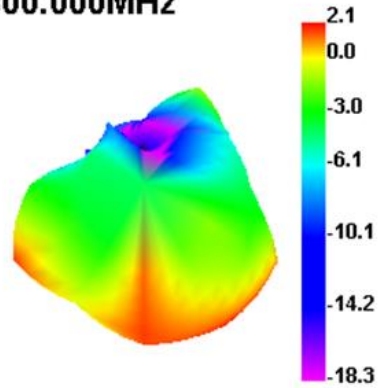
2450.000MHz



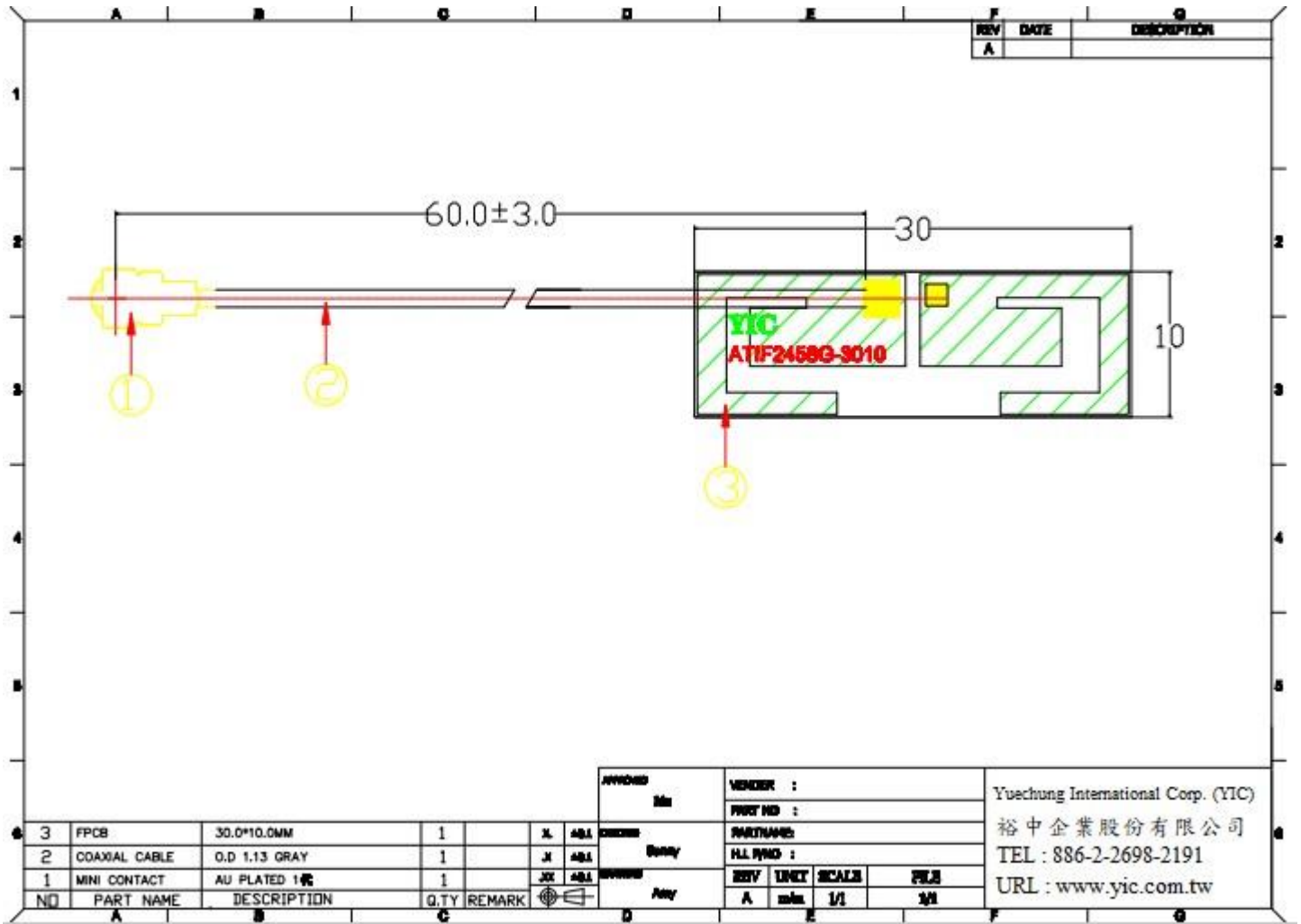
5250.000MHz



5800.000MHz



## 7. Dimensions



## 8. Operating Condition

Temperature	-40°C to +85°C
Humidity	10% to 95% RH

## 9. Storage Condition

Temperature	-40°C to +85°C
Humidity	10% to 95% RH

## 10.Note

- 1、 This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.
- 2、 We cannot warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.
- 3、 The product will get free warranty for one year since the date of purchase users operate in the correct way; users will have to pay cost of the materials and maintaining fee out of the condition.
- 4、 Electrostatic sensitive device Observe precautions for handling.