



# Specification

Customer P/N: 55-00080-3003

Specification: max3.58 dBi@2.4~2.5 GHz & max3.53dBi@5.15~5.85 GHz  
built-in antenna, 50ohm, RG1.13 black wire L=90mm,  
with IPEX first-generation connector, dual-band built-in  
FPC antenna

Description: WIFI&BT-Antenna

Supplier: DONGGUAN QY TECHNOLOGY

Producer: DONGGUAN QY TECHNOLOGY

## Remark:

Please return one specification or one copy of it with your chop and signature of approval and retain the others for your record. In the event of an order being placed for this part number before the chop and signed with specification (or copy) is returned and without special explanation, it will be assumed that full approval have been given.

CHECKED/DATE	AUDITOR/DATE	APPROVED/DATE
Zhang Bingxiang 2025.05.06	Wu Qianjin 2025.05.06	Luo Daxun 2025.05.06

Address: 4th Floor, No. 3 Lianhu Kelian Road, Tangxia Town, Dongguan City

Website: <http://www.qiyuandz.com>

Telephone : 0769- 82953575

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### 1. Antenna Picture :



### 2. Electrical parameters:

<b>Frequency</b>	2.4~2.5GHz&5.15~5.85GHz
<b>Impedance</b>	50Ω
<b>S.W.R.</b>	≤2.0
<b>Antenna Gain</b>	max 3.58dBi @2.4-2.5GHz max3.53dBi @5.15-5.85GHz
<b>Polarization</b>	Vertical polarization
<b>Return Loss</b>	-9.2dB MAX

### 3. Mechanical parameters:

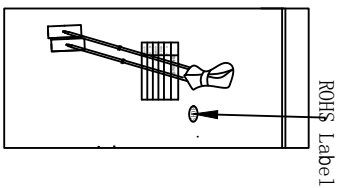
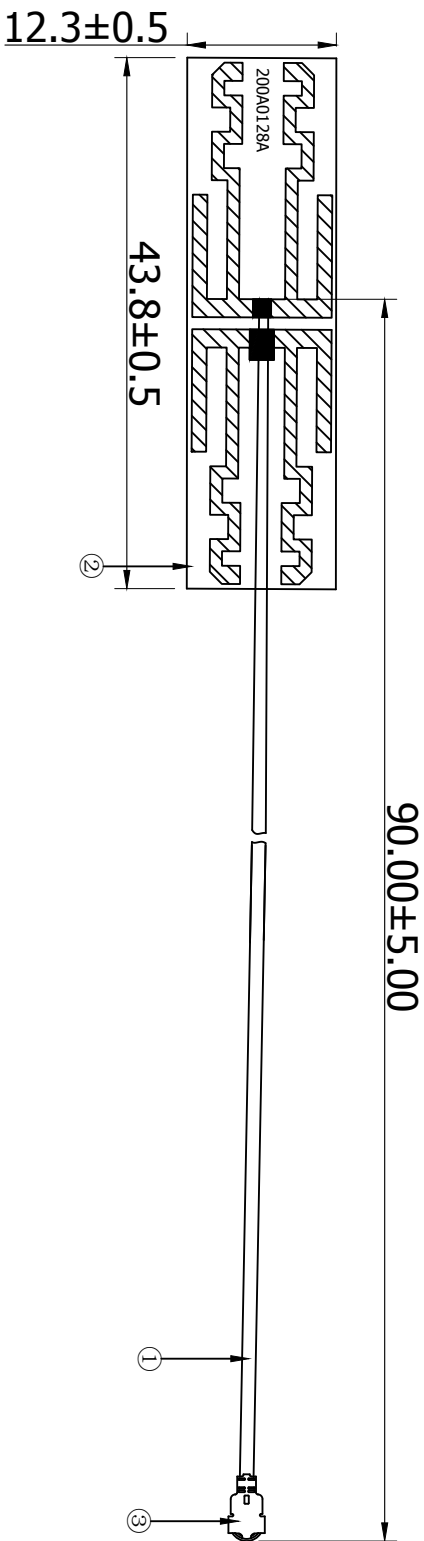
<b>Antenna Colour</b>	Black
<b>RF Cable Model</b>	RG1.13, Black
<b>Connect Type</b>	IPEX first-generation connector

### 4. Operating/ Storage Temperature:

<b>Operating Temperature</b>	-40~85℃
<b>Storage Temperature</b>	-40~85℃

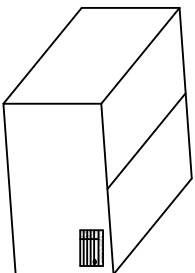
成品图

REV	DATE	DESCRIPTION
A	2025.04.22	NEW ISSUE
B		



ROHS Label

Pack full: 200pcs/PE Bag



1. 1 pcs/ROHS Label
2. 1pcs Outer box label

Specification:  
 Frequency Range : 2.4~2.5GHz & 5.15-5.85GHz  
 Return loss : -9.2dB or less  
 VSWR: 1.92:1max  
 Gain(Peak): 3.0dbi

NO	DESCRIPTION	QTY	REMARK
3	Connector IPEX first-generation connector	1	
2	FPC 43.8*12.3*0.2mm OSP	1	
1	Cable RG-113 RF Cable 50Ω Color:Black	1	

XXXI	±5.0	APPROVED	CUSTOMER:
XXI	±3.0		PART NO :
X.	±1.0	CHECKED	PARTNAME : WFF-2-4&5.8G ANT
X	±0.5		R.F P/NO :
.XX	±0.1	DRAWING	REV UNIT SCALE SIZE SHEET
			A mm 1:1 A4 10F1

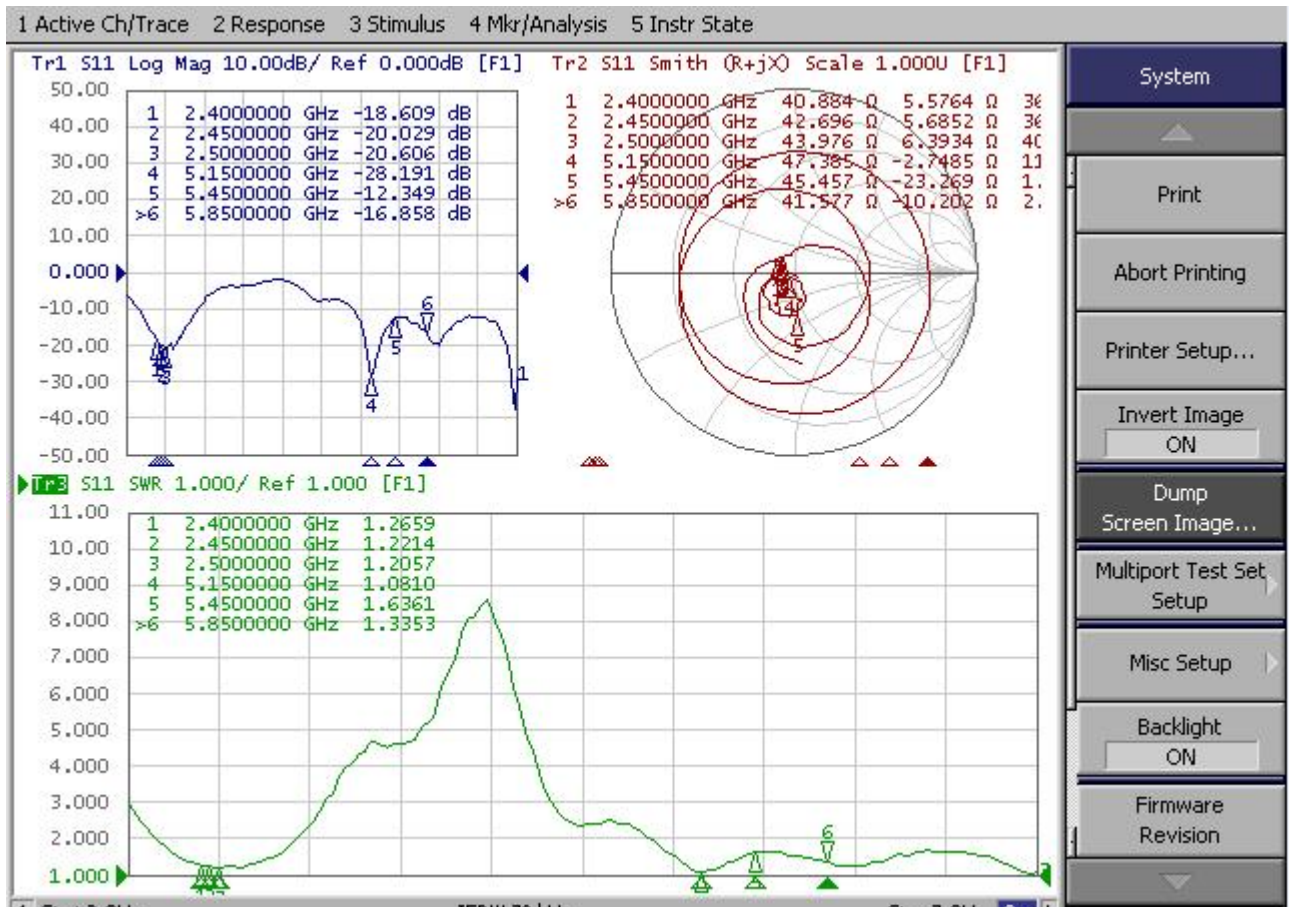


东莞市启元电子科技有限公司  
 Dongguan Shi Qi Yuan Electric Technology Co., Ltd.



## 5. Test parameters

### 5.1 V.S.W.R&Return Loss



### 5.2 增益&效率

FEITUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-3.51	-3.38	-3.60	-3.25	-3.29	-3.49	-3.41	-3.20	-3.18	-3.39	-3.43
Gain (dBi)	2.81	3.10	3.24	3.47	3.58	3.44	3.33	3.49	3.12	2.80	2.68
Efficiency (%)	44.53	45.93	43.69	47.29	46.89	44.77	45.62	47.85	48.10	45.77	45.34

FEITUKEJI															
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-3.23	-2.79	-3.03	-3.07	-2.83	-2.74	-3.44	-3.41	-3.10	-3.26	-3.93	-3.80	-3.49	-3.59	-3.74
Gain (dBi)	2.34	2.98	2.69	3.29	3.36	3.13	2.63	3.23	3.53	3.29	3.02	3.16	2.80	2.92	2.59
Efficiency (%)	47.54	52.58	49.75	49.30	52.10	53.16	45.34	45.60	49.03	47.18	40.43	41.64	44.79	43.76	42.31



5.3 Field pattern diagram

