



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



1. Antenna Picture :



2. Electrical parameters:

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

3. Mechanical parameters:

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

4. Operating/ Storage Temperature:

Operating Temperature	-40~85℃
Storage Temperature	-40~85℃

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REV	DATE	DESCRIPTION
A	2025.04.22	NEW ISSUE

DESCRIPTION	
NEW ISSUE	2

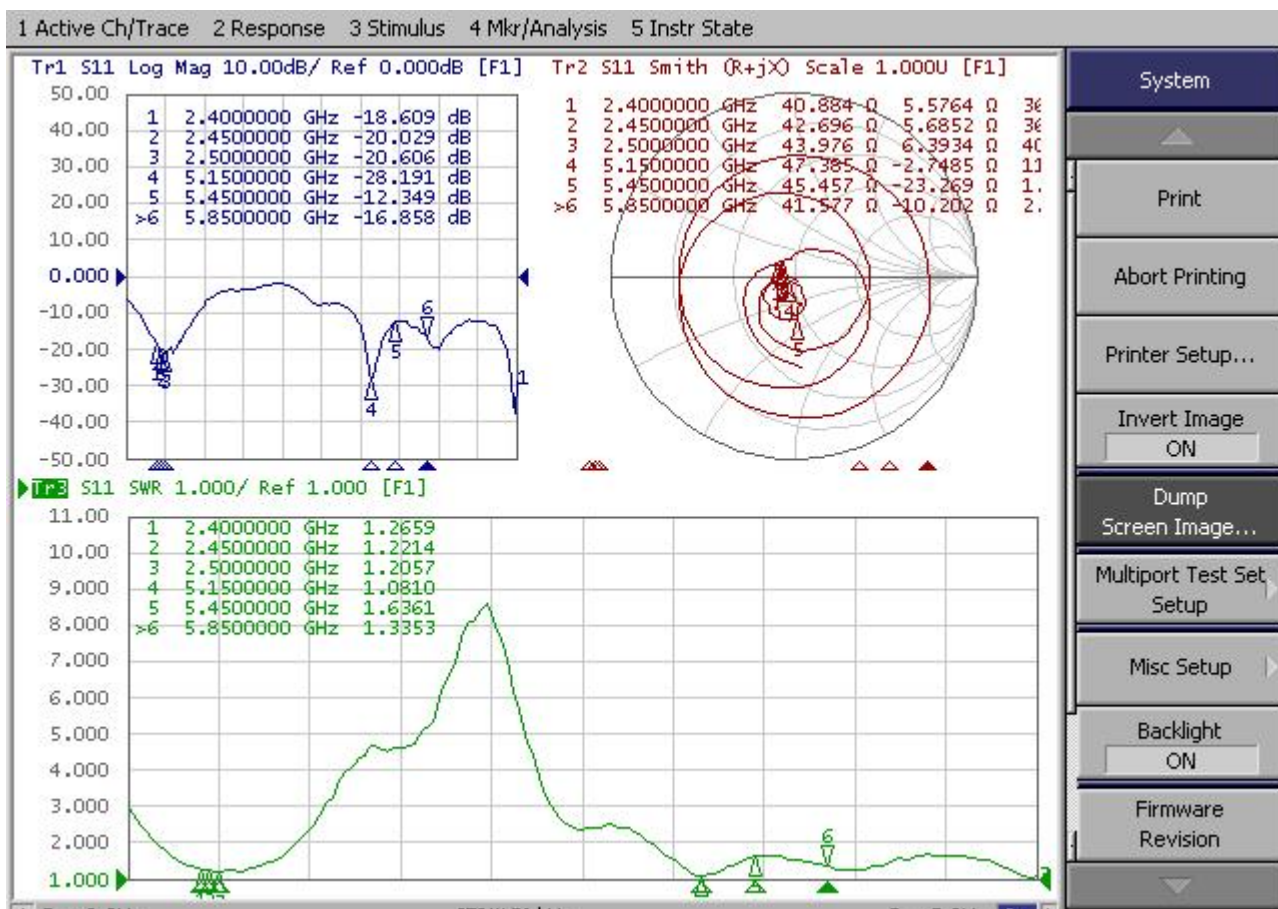
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5. Test parameters

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
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
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
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
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



5.3 Field pattern diagram

