

PRODUCT SPECIFICATION

Customer Name: BOE

Product Name: TC642(FF87)-2.4G

Customer Material Number: 405-000043

Rui Xiang material number: F158F8701111000

Versions: V01

Authorizer	Check	Compile
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2024.07.18	2024.07.18	2024.07.18

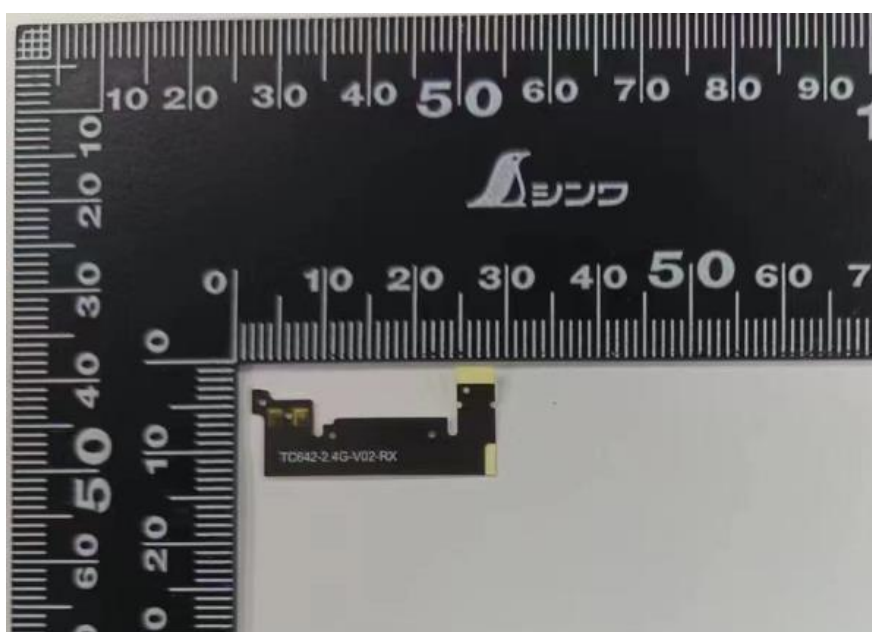
Manufacturer: Kunshan innowave Communication Technology Co.,Ltd.

Address: Building H, Jintu Zhizao Garden, No. 55 Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province

1.Antenna specification

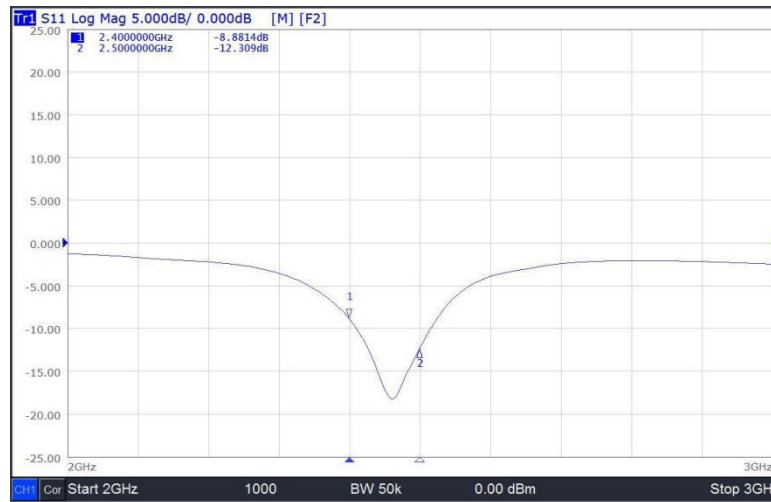
Antenna Type	Monopole FPC Antenna
Frequency	2400MHz~2500MHz
VSWR	3.0 Max
Impedance	50Ω
Polarization	Linear
Radiation pattern	Omni-directional
Antenna size (mm)	27.16*9.93
Antenna Gain(dbi)	-1.4
Working Temperature (℃)	-20~65
Storage Temperature (℃)	-20~85

2.Antenna Photo



3. Antenna Return loss

The Return loss test device is connected as follows: E5071B network analyzer → 50 ohm coaxial Cable → test fixture



4. Antenna Efficiency

Frequency (MHz)	Efficiency (dB)
2400	-7.7
2410	-7.3
2420	-7.0
2430	-6.6
2440	-6.5
2450	-6.5
2460	-6.4
2470	-6.5
2480	-6.6
2490	-6.6
2500	-6.7

5. Antenna OTA

Band	Channel	TRP	TIS (Screen is light on)
		6M	54M
11G	1	10.6	-82.6
	6	10.7	-81.4
	11	10.4	-82.0
Band	Channel	TRP	TIS (Screen is light on)
		11M	11M
11B	1	11.2	-68.3
	6	11.3	-67.1
	11	10.9	-68.1

6. Antenna Radiation Pattern

2450MHz

