

PRODUCT SPECIFICATION

Customer Name: BOE

Product Name: TC642(FF87)-5G

Customer Material Number: 405-000042

Rui Xiang material number: F158F8701511000

Versions: V01

Authorizer	Check	Compile
Xudong.Zhang	Bo.Li	Xiangyang.Ye
2024.07.18	2024.07.18	2024.07.18

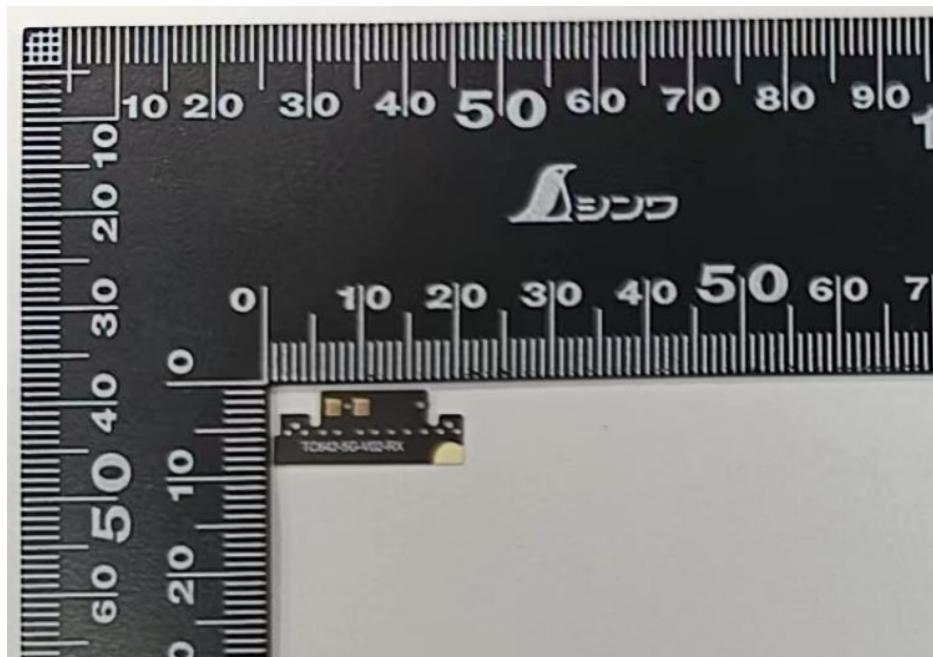
Manufacturer: Kunshan innowave Communication Technology Co.,Ltd.

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

1.Antenna specification

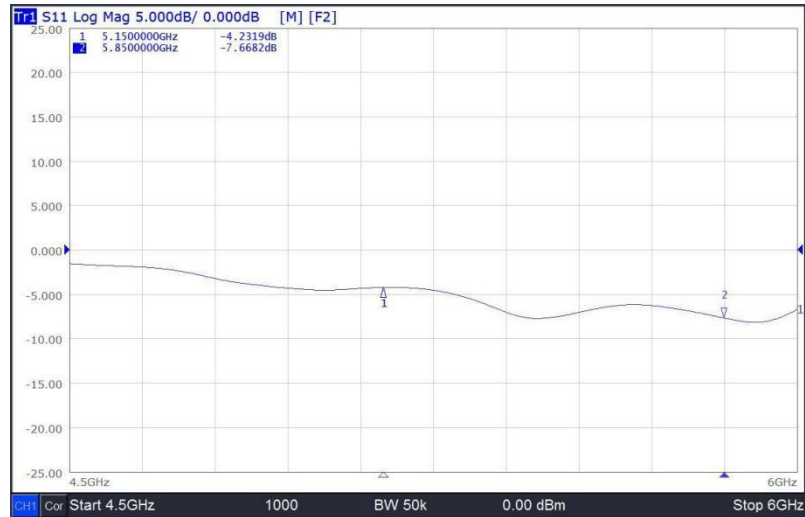
Antenna Type	IFA FPC Antenna
Frequency	5150MHz~5850MHz
VSWR	3.0 Max
Impedance	50Ω
Polarization	Linear
Radiation pattern	Omni-directional
Antenna size (mm)	20.05*7.94
Antenna Gain(dbi)	1.1
Working Temperature (℃)	-20~65
Storage Temperature (℃)	-20~85

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

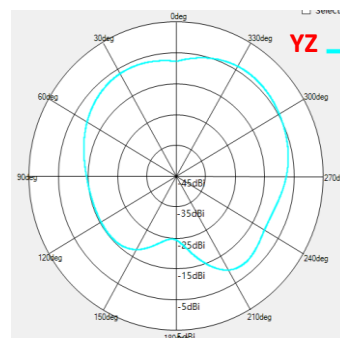
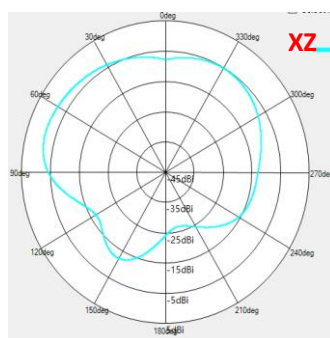
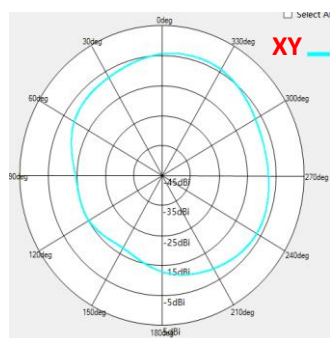
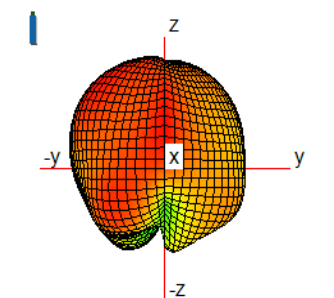
Frequency (MHz)	Efficiency (dB)
5150	-6.8
5200	-6.2
5250	-6.2
5300	-6.1
5350	-5.7
5400	-5.0
5450	-4.9
5500	-4.8
5550	-5.0
5600	-5.1
5650	-5.4
5700	-5.9
5750	-5.7
5800	-5.8
5850	-6.0

5. Antenna OTA

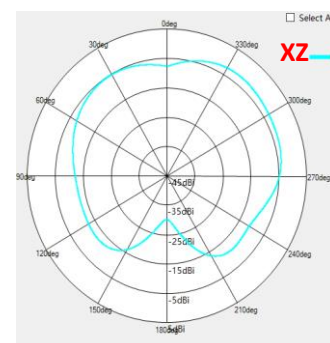
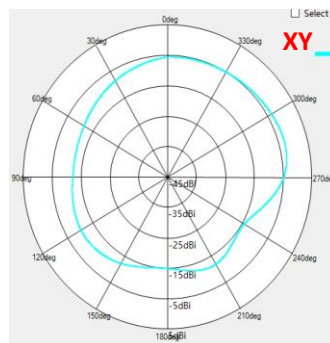
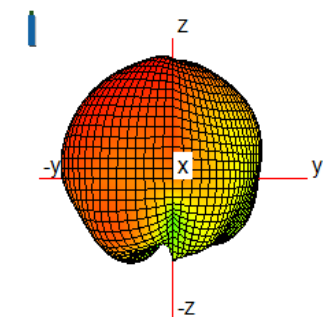
Band	Channel	TRP	TIS (Screen is light on)
		6M	54M
11A	36	8.7	-67.7
	64	12.3	-70.7
	165	10.9	-69.8

6. Antenna Radiation Pattern

5180MHz



5825MHz



7.Antenna Drawing

