



# SPECIFICATIONS FOR APPROVAL

Customer Name: Suga Macao Commercial Offshore Limited

Product Name: BT Antenna

Product Model: 88T

Part Number: LJF02-23070308A-R0A

Write By : Pengsiheng

Issued Date: 2023-07-03

## CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVAL

## LEJIN

R&D DEPT	ENGINEER DEPT	APPROVAL

REV	MODIFIED DESCRIPTION	DATE	REMARK
V1.0	Initial Draft Release	2023/07/03	



## Index

1. Cover	1
2. Index	2
3. Product Specification	3
4. Test Equipment & Conditions	3
5. Test Report	4
6. Reliability Test	5
7. Assemble type	6
8. Product Drawing	7





## 5. Test Report

### 5.1 Voltage Standing Wave Ratio(VSWR).

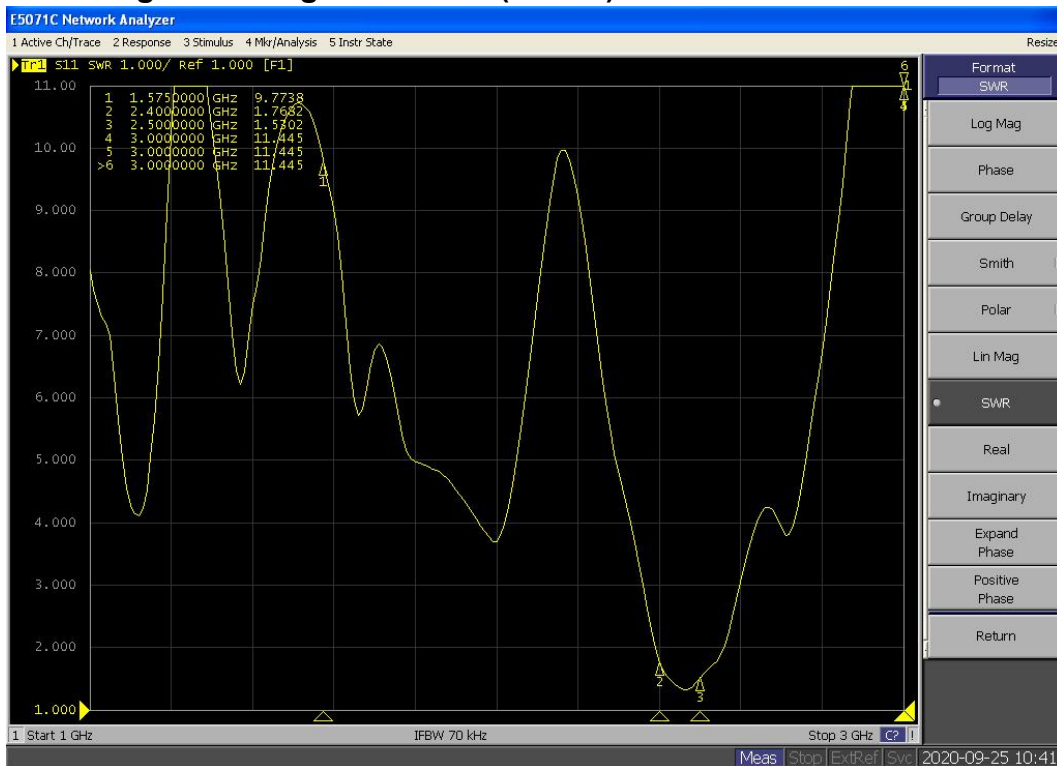
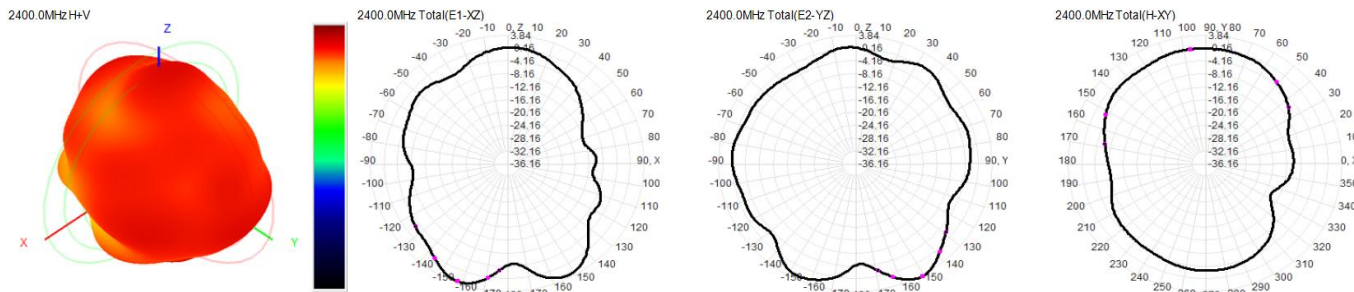


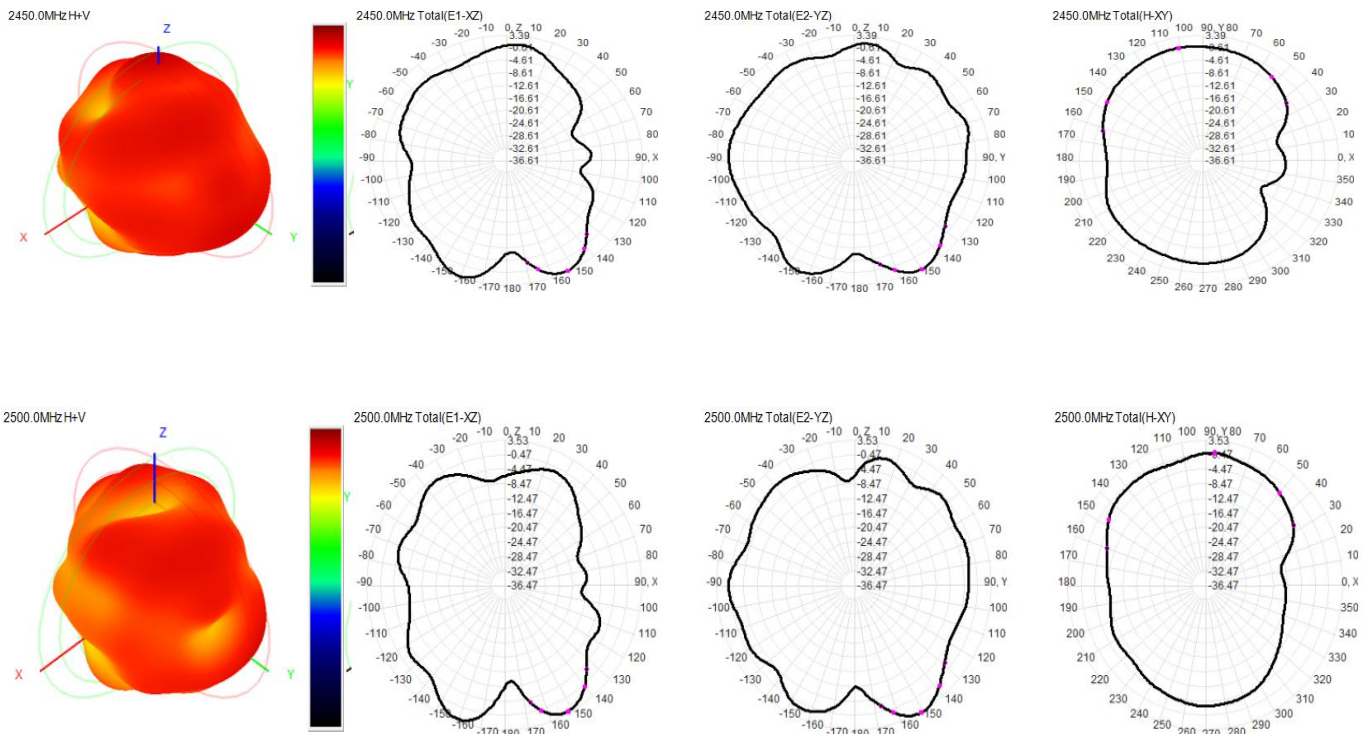
Chart 2 VSWR

### 5.2 Efficient and gain.

Passive Test	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
2.4GHz	Effi(%)	56.02	55.58	53.39	52.24	53.74	52.94	53.83	52.92	51.61	51.10	49.53
	Gain(dBi)	2.19	2.30	2.19	2.08	2.10	1.87	1.88	1.82	1.87	2.05	2.19

### 5.3 Radiation pattern.





## 6. Reliability Test

Test Item	Test condition	Equipment	Specification	Result
1 Low Temp. Storage Test	Temperature: -30℃, Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-down the temp. to -30℃ in one hour, store antenna for 44 hours; step-up temp to 25℃, test antenna after 2 hours.	Temp.&Humidity Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
2 High Temp./High Humid Storage Test	Temperature: 85℃ Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-up the temp. to 80℃ and the humidity up to 85% in one hour, store antenna for 44 hours; step-down temp to 25℃, test antenna after 2 hours.	Temp.&Humidity Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
3 Salt-Spray Test	Placing antenna in the Salt-Spray Tester, set the test condition, Temp: 35±2℃ Humidity: 85% NaCl salt spray :5±1%. PH value :6.5~7.2 Testtime:24hours	Salt-Spray Tester	No color change No appear rusting	PASS

## 7. Assemble type

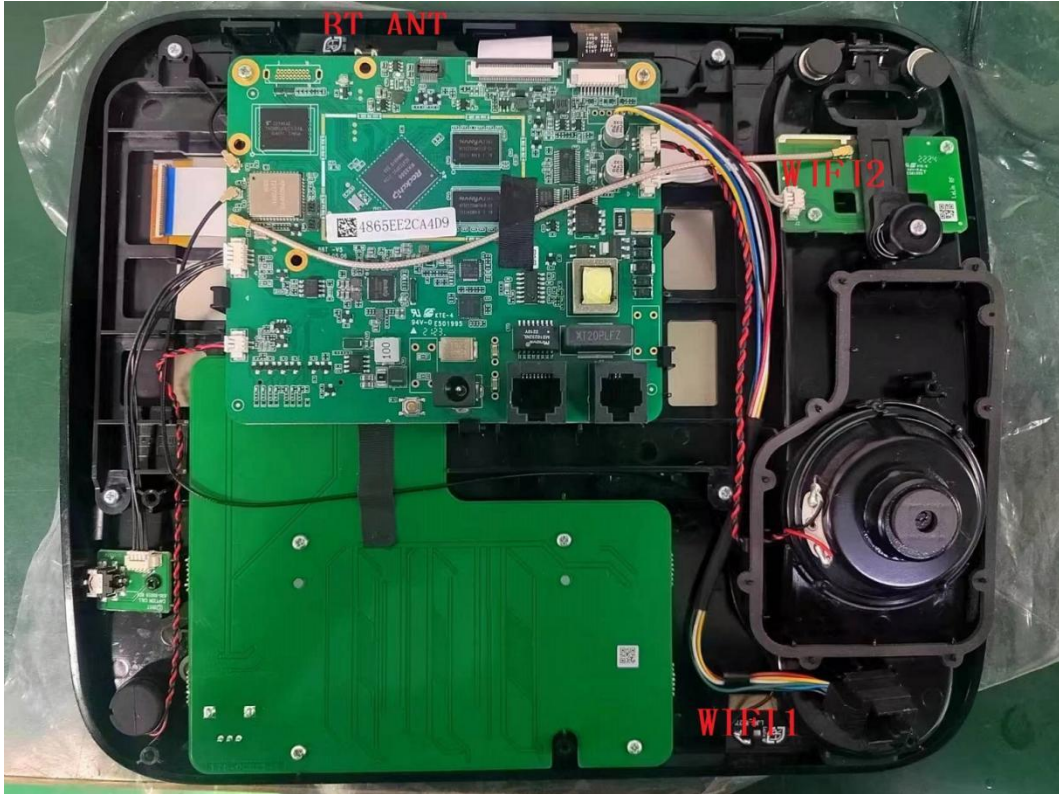
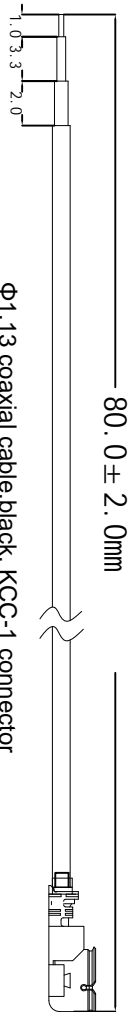
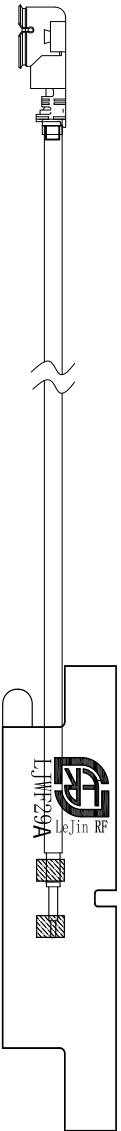
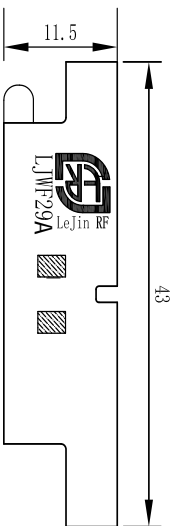
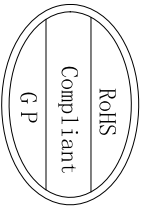


Chart 3 assemble type

## 8.Product Drawing





80.0 ± 2.0mm

**Remark:**

- 1.FPC material:Electrolytic copper.
- 2.Backing in behind:3M300LSE.
- 3.Tolerance: Cutting die:±0.1mm;Circuit on FPC:±0.05mm; others are ±0.05mm.
- 4.ROHS:(Pb,Hg,Cr+6,PBBs,PBDEs),<1000ppm; Cd,<100ppm.

1			
2	Revise		
3	record		

**SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD**

Third Angle	Project	Date
0.02	Suga	2023-07-03
0.02	Part Name	BT ANT
0.03	Part No.	88T
0.02	Material	
0.04	Treatment	LJF02-23070308A-R0A
0.04	Approved by	
0.04	Unit	mm
0.04	Scale	FIT
0.04	Rev	A

Rev	Description	Date	Remark
1	New drawing		