Specification For Approval

	Date: 2021 / 03 / 19
	The state of the s
	File No.:
	Version: 1.0
Customer:	广东南光影视器材有限公司
Customer P/N:	
Yi Zong P/N:	NB2400-128
Description :	2.4GHz Antenna
51	
Cortec Checked	d By: Wang Chao Xing
	Chen juntoney
	一纵电子 YIZONG ELECTRONICS

Index:

- 1. Revision History / Page 3
- 2. Specification / Page 4
- 3. Characteristics and Reliability Test / Page 5
- 4. Antenna S Parameter Test Data / Page 6
- 5. Antenna Radiation Pattern Test Data / Page 7
- 6. Mechanical and Packing Drawing / Page 8 \sim 9
- 7. Material Description and RoHS Test Report / Page 10 ~ end

1. Revision History

Revision	Date	Change Notification	Description
1.0	2021.03.19	初版	

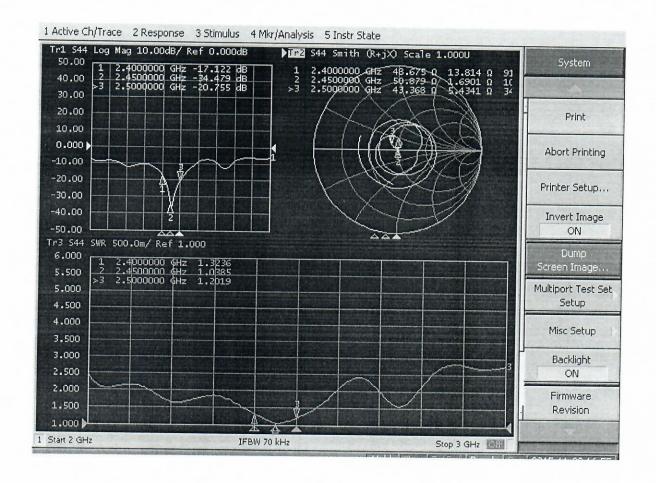
2. Specification

Sample Photo		
A. Electrical Characteristi	cs	
Frequency	2400 ~ 2500 MHz	
V.S.W.R.	≤ 2.0	
Peak Gain	2.32 dBi	
Polarization	Linear	
Impedance	50 Ohm	
B. Material & Mechanical (Characteristics	
Material of Radiator	CU	
Cable Type	OD1.13mm	
Connector Type	Mini Connector	
C. Environmental		
Operation Temperature	- 40 °C ~ + 65 °C	
Storage Temperature	- 40 °C ~ + 80 °C	

3. Characteristics and Reliability Test

	Test Items	Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997	1. No Visual Damage
		Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	2. Frequency Tol.<= 5%
M2	Random	GB / T2423.8-1995	1. No parts separated
	Drop	Height: 1.0 Meter;	2. Frequency Tol.<= 5%
	1	3 directions; 1 time for each direction	
М3	Solderability	GB 2423 . 28- 82	1. Mounted on PCB
223		Solder iron: 260±5°C; Duration: 5 seconds	2. No Visual Damage
M4	Terminal-	Holding with individual specification; force applied	1. Directive DUT specification
	Pull Test	to axis of terminal	2. Frequency Tol.<= 5%
M5	Terminal-	Holding with individual specification; applied	1. Directive DUT specification
	Torque Test	clockwise and counterclockwise to the axis of terminal	2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package,	Directive DUT specification
		surface process	
E1	Salt Spray	GB / T 2423 . 17- 93	After 2 Hours Recovery
		Temp: 35°C; RH: >= 95%; NaCI solution: >= 5%;	1. No Visual Damage
		Time: 24 hours	2. Frequency Tol.<= 5%
2	Humidity	GB / T 2423 . 4 - 93	After 2 Hours Recovery
		Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%;	1. No Visual Damage
		Time: 24 hours	2. Frequency Tol.<= 5%
3	Thermal		After 2 Hours Recovery
	Shock	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes)	1. No Visual Damage
		Cycles: 24	2. Frequency Tol.<= 5%
4	Life (High	GB /T 2423 . 2 - 89	After 2 Hours Recovery
	Temp.)	Temp: 80°C; Time: 24 hours	1. No Visual Damage
33.7			2. Frequency Tol.<= 5%
11	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2011/65/EU
2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC
3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

4. Antenna - S Parameter Test Data



5. Antenna - Radiation Pattern Test Data

2400 MH	2450 MHz					2500 MHz					
	*		7.	*					X Company of the comp		
2.00 300 4.70 400 40.72 4126	Sec. (5.9) 22.0		176	112 416 .71	-10.25 -12.89 -15.1	्राक्ट -शक्त	d constitution	1.32 21.21	430 -100 -1150	-1431 3** Zi	
Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	0.400	
and the second s					are to the tree to the		2100	2110		2490	2500
TRP (dBm)	-2.33	-2.29	-2.17	-1.96	-1.73	-1.6	-1.45	-1.58	-1.48		2500 -1.37
TRP (dBm) Peak EIRP (dBm)	-2.33 1.89	-2.29 1.71	-2.17 1.8	-1.96 1.89		-1.6 2.17				-1.62	-1.37
TRP (dBm) Peak EIRP (dBm) NHPRP +/- 45 (degree)					-1.73		-1.45	-1.58	-1.48	-1.62 2.01	-1.37 2.09
TRP (dBm) Peak EIRP (dBm)	1.89	1.71	1.8	1.89	-1.73 2.12	2.17	-1.45 2.32	-1.58 1.97	-1.48 2.04 -1.91	-1.62 2.01 -2.02	-1.37 2.09 -1.75
TRP (dBm) Peak EIRP (dBm) NHPRP +/- 45 (degree)	1.89 -2.88	1.71 -2.82	1.8 -2.67	1.89 -2.44	-1.73 2.12 -2.19	2.17 -2.06	-1.45 2.32 -1.9	-1.58 1.97 -2.03 -2.87	-1.48 2.04 -1.91 -2.75	-1.62 2.01 -2.02 -2.82	-1.37 2.09 -1.75 -2.53
TRP (dBm) Peak EIRP (dBm) NHPRP +/- 45 (degree) NHPRP +/- 30 (degree)	1.89 -2.88 -3.91	1.71 -2.82 -3.83	1.8 -2.67 -3.62	1.89 -2.44 -3.34	-1.73 2.12 -2.19 -3.06	2.17 -2.06 -2.92	-1.45 2.32 -1.9 -2.75 -10.28	-1.58 1.97 -2.03 -2.87 -11.06	-1.48 2.04 -1.91 -2.75 -11.32	-1.62 2.01 -2.02 -2.82 -11.34	-1.37 2.09 -1.75 -2.53 -10.95
TRP (dBm) Peak EIRP (dBm) NHPRP +/- 45 (degree) NHPRP +/- 30 (degree) E-Theta Peak Gain (dBi)	1.89 -2.88 -3.91 -9.22	1.71 -2.82 -3.83 -9.7	1.8 -2.67 -3.62 -10.14	1.89 -2.44 -3.34 -10.13	-1.73 2.12 -2.19 -3.06 -11.06	2.17 -2.06 -2.92 -10.41	-1.45 2.32 -1.9 -2.75	-1.58 1.97 -2.03 -2.87	-1.48 2.04 -1.91 -2.75 -11.32 1.96	-1.62 2.01 -2.02 -2.82 -11.34 1.93	-1.37 2.09 -1.75 -2.53 -10.95 2.05
TRP (dBm) Peak EIRP (dBm) NHPRP +/- 45 (degree) NHPRP +/- 30 (degree) E-Theta Peak Gain (dBi) E-Phi Peak Gain (dBi)	1.89 -2.88 -3.91 -9.22 1.86	1.71 -2.82 -3.83 -9.7 1.69	1.8 -2.67 -3.62 -10.14 1.78	1.89 -2.44 -3.34 -10.13 1.8	-1.73 2.12 -2.19 -3.06 -11.06 1.99	2.17 -2.06 -2.92 -10.41 2.07	-1.45 2.32 -1.9 -2.75 -10.28 2.22	-1.58 1.97 -2.03 -2.87 -11.06 1.87	-1.48 2.04 -1.91 -2.75 -11.32	-1.62 2.01 -2.02 -2.82 -11.34	-1.37 2.09 -1.75 -2.53 -10.95

6. Mechanical Drawing See attached files

7. Material Description and RoHS Test Report See attached files

