

Antenna SPEC

Customer name: 易斯蒲Customer project: EASTCOOLER

Part Number: _____

B&T P/N: 74300199Spec. : Built-in antenna-2.4G/5.8G-grey 1.13 tin wire-first
generation terminal-L=50mm-FPC-35×8.3mm

ealed by corporation:

compilation	ver ify	approval
Qiucui ping	Lvjie	Liulihua

Contact information of B&T:

Contact person for sales: Chenyadong	MB:18675581971	E-mail: chenyd@tech-now.com
Contact person for technical: LvJie	MB:13530413724	E-mai: lvj@tech-now.com
Contact person for Quality: Zeng Kang	MB:18188400229	E-mail: zengk@tech-now.com

表单编号: B&T-QR-EN-002 版本: B3

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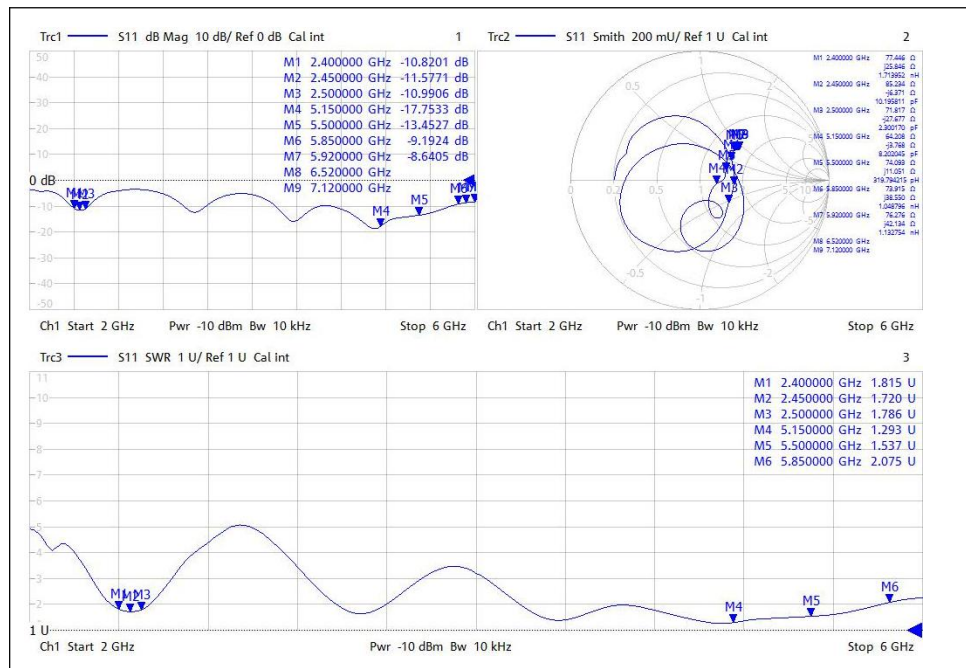
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4、Properties &parameter

Electrical Parameter	
Freq Range	2400~2500/5150~5850MHz
Characteristic Impedance	50 Ω
VSWR	Check the engineering seal
The Max input power	<10w
Polarization mode	Polar linearization
Radiation mode	Omni directional
Connector style	IPEX connector
Mechanics Properties	
Length	50 $\pm$ 3mm
Maintain the force	$\geq$ 1kgf
Coaxial cable	grey1.13 silver tin wire
Salt spray test	24H
Environment parameter	
Operating Temp	-30 $^{\circ}$ C~65 $^{\circ}$ C

5、Electrical Performance Test report (complete machine)

➤ S11



➤ standing wave ratio data

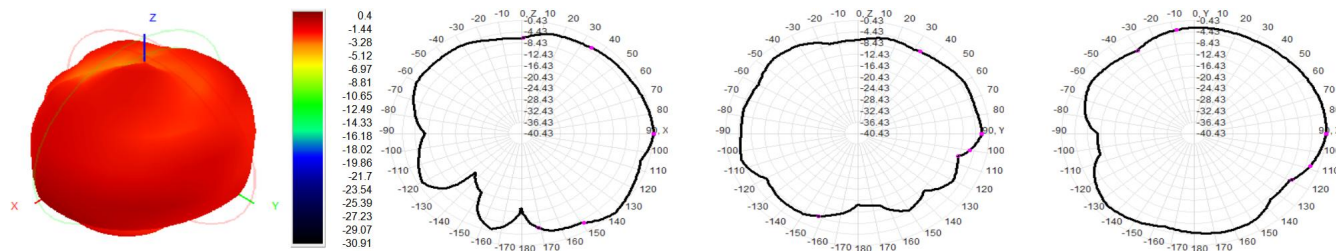
Freq/MHz	2400MHz	2450MHz	2500MHz	5150MHz	5500MHz	5850MHz
VSWR	1.81	1.72	1.78	1.29	1.53	2.07

➤ antenna darkroom test data

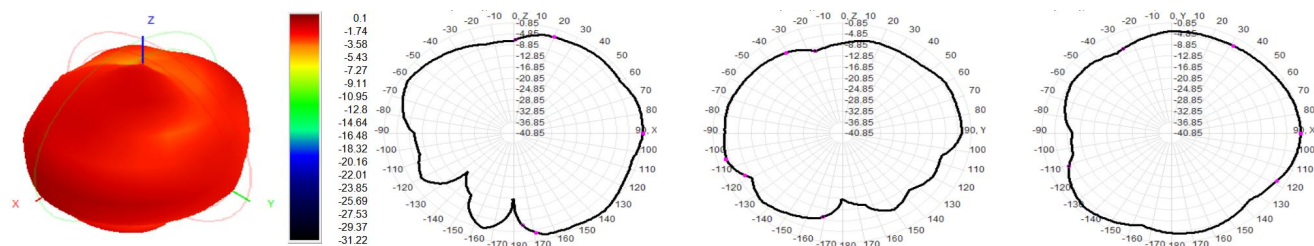
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-4.68	0.40	34.02
2410.0	-4.79	0.12	33.18
2420.0	-4.62	0.27	34.47
2430.0	-4.77	0.23	33.36
2440.0	-4.87	0.09	32.58
2450.0	-4.78	0.10	33.26
2460.0	-4.86	-0.04	32.70
2470.0	-4.88	-0.16	32.52
2480.0	-4.85	-0.16	32.70
2490.0	-4.64	0.02	34.38
2500.0	-4.65	0.02	34.28
5150.0	-2.94	2.12	50.82
5200.0	-2.77	1.99	52.79
5250.0	-3.26	0.34	47.16
5300.0	-2.99	2.40	50.25
5350.0	-2.83	2.72	52.16
5400.0	-3.74	1.74	42.22
5450.0	-3.43	2.15	45.40
5500.0	-2.11	4.23	61.52
5550.0	-3.42	2.50	45.49
5600.0	-3.33	3.29	46.46
5650.0	-2.35	4.20	58.27
5700.0	-2.76	3.24	53.00
5750.0	-2.84	2.83	51.97
5800.0	-3.24	2.34	47.47
5850.0	-2.07	5.27	62.07

➤ antenna direction diagram

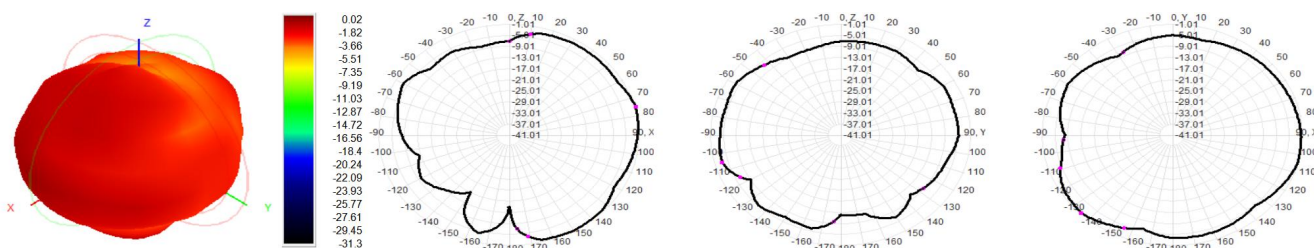
2400MHz 3D-E1-E2-H



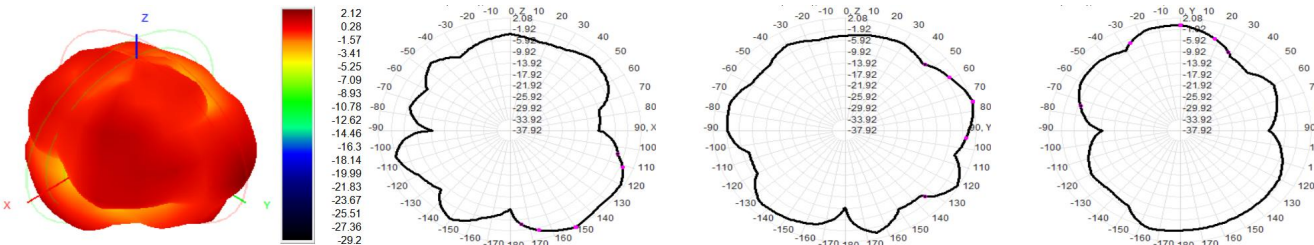
2450MHz 3D-E1-E2-H



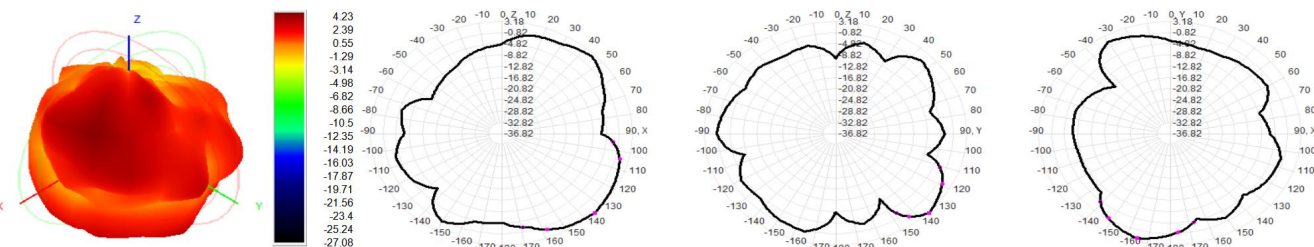
2500MHz 3D-E1-E2-H



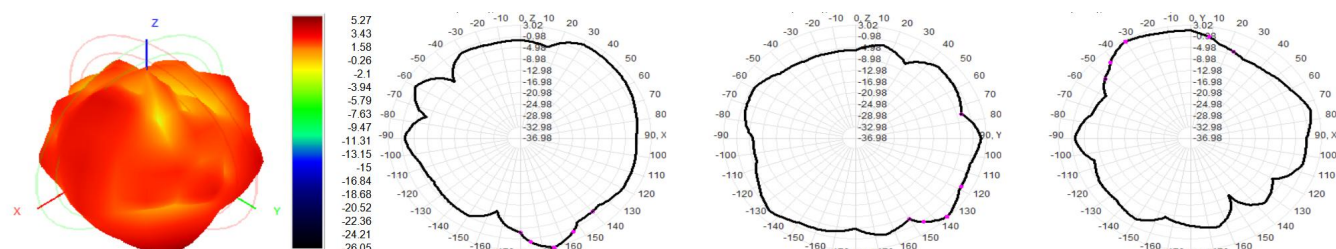
5150MHz 3D-E1-E2-H



5500MHz 3D-E1-E2-H



5850MHz 3D-E1-E2-H



6、List of Material Composition and Hazardous Substances

Item	Specific ation	Texture of material l	ROHS Test Results (PPM)						ICP test number	Test time
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	wire	FEP	ND	ND	ND	ND	ND	ND	NGBPC24000131241	2024/1/16
		Tinned wire	ND	ND	ND	ND	ND	ND	A2240376995101001	2024/7/1
2	Terminal	PBT	ND	ND	ND	ND	ND	ND	A2240126395101004E	2024/3/16
		Phospho r Bronze	ND	6	ND	ND	ND	ND	CANEC24000977301	2024/1/22
3	FPC	PI	ND	ND	ND	ND	ND	ND	SHAEC24000428805	2024/1/12
		Tape	ND	ND	ND	ND	ND	ND	SHAEC23021627701	2023/12/27

PACKING CRITERION

P/N: 74300199

Spec.: Built-in antenna-2.4G/5.8G-grey 1.13 tin wire-first generation terminal-L=50mm-FPC-35×8.3mm

一、contents of label(according to the customer's name, refer to the corresponding finished product label production requirements. If there is no requirement, it will follow the ordinary label requirements.)

Label for PE bag/ carton, L:10cm;W:6cm

buyer	*****		
vender	Zhongshan B&T Communication Technology Co., Ltd.		
	Sichuan B&T Communication Technology Co., Ltd.		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	****.*.*
Trace code	*****	Running water number	*****

Label for PE bag/ carton, L:10cm;W:6cm

buyer	*****		
vender	Zhongshan B&T Communication Technology Co., Ltd.		
	Sichuan B&T Communication Technology Co., Ltd.		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	****.*.*
Trace code	*****	Running water number	*****

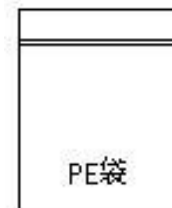
二、Packing requirement

Operating description:

1. inner packing:

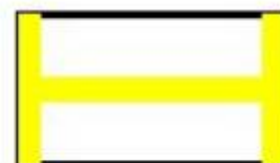
50 PCS/ small bag,

200 PCS/ big bag

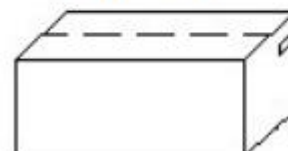


2. outer packing:

Quantity according to actual packing PCS/carton



Carton



Notice:

8、Antenna installation diagram



9、Antenna test darkroom placement

No.	Reliability test name	Test conditions	Judgment criteria
1	Constant temperature and humidity test	High temperature: 70°C, Humidity: 80%RH 24H; low temperature: -40°C 24H; total duration: 48H;	Appearance requirements before and after the test: The metal surface coating should be free of peeling, cracks, wrinkles, separation, etc. The non-metallic parts should not change color, crack, deform, degumming or other defects. Electrical performance testing meets standard requirements;
2	High and low temperature thermal shock test	70°C for 2H, -40°C for 2H, 6 cycles, 24 hours in total;	Appearance requirements before and after the test: The metal surface coating should be free of peeling, cracks, wrinkles, separation, etc. The non-metallic parts should not change color, crack, deform, degumming or other defects. Electrical performance testing meets standard requirements.
3	Salt spray test	concentration (5±1)% NACL solution to ensure that the pH value of the salt solution is neutral (6.5~7.2); The temperature of the pressure barrel is 47±1°C, the spray pressure is maintained at 1.00±0.1kgf/cm², and the spray volume is 1.0~2.0ml/80cm²/h; Test time: 24H;	There should be no oxidation or rust on the exposed areas of the product surface; Oxidation/rust area after salt spray test in other areas < 1.0%

4	Connector retention test	Normal temperature and humidity; Test maintenance requirements: ≥ 1.0 kgf;	; There are no loose or loose terminals or cables. After the test, the electrical performance test meets the standard requirements.
5	Connector insertion and extraction force test	Normal temperature and humidity; The terminal and the seat are connected normally, and the insertion force/pull-out force is ≥ 1.0kgf;	The terminal insertion force/extraction force meets the requirements, and the terminals have no defects such as falling off or damage.