

Project :Y220818061 Date. 2022.10.12 REV: A0

Antenna SPEC

Customer name: <u>UBTECH ROBOTICS CORP LTD</u>

Customer project: UGOT Robot

Customer P/N:

B&T P/N: <u>74220118</u>

Spec.: internal antenna -2.4 / 5G-Black 0.81 wire-terminal-

L=100mm-FPC-41.2×12.3mm

Sealed by corporation:

compilation	verify	approval
Huangfeihui	Liulihua	Liulihua

Sealed by customer:

check	verify	approval

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Document making / revising / abolishing resume							
Edition	Date	Formulate/Revised content	Formulate	approval			
A0	2022.10.12	First formulation	Huangfeihui	Liulihua			
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Document making / revising / abolishing resume

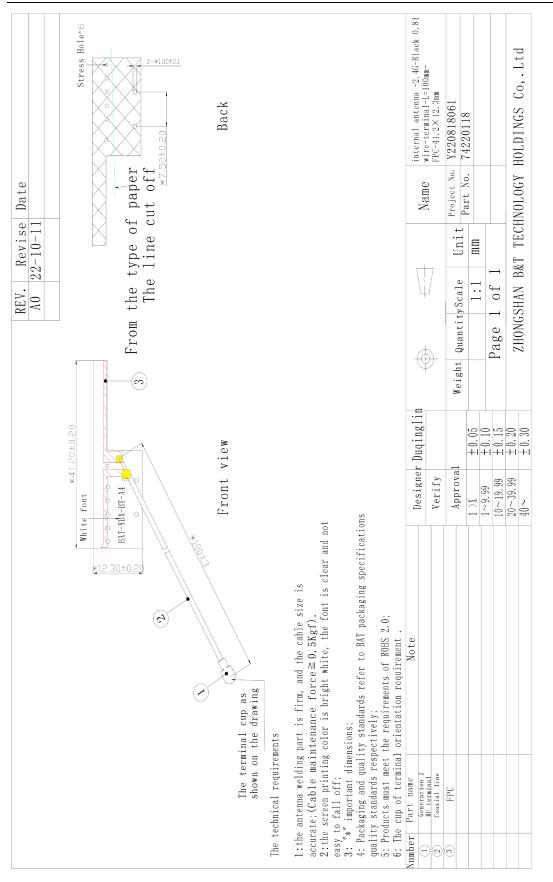


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3、Product drawing





Electrical Parameter



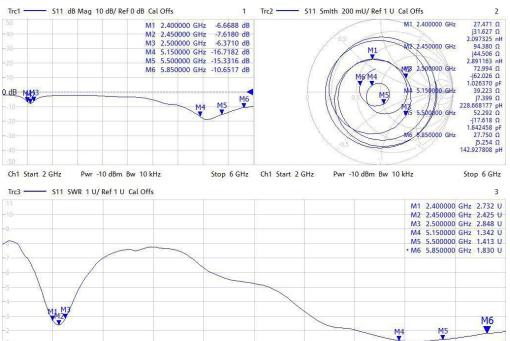
Freq Range	2400~2500/5150~5850MHz	
Characteristic Impedance	50Ω	
VSWR	sample of reference project	
The Max input power	<10w	
Polarization mode	Polar linearization	
Radiation mode Omni directional		
Connector style	Generation 2 RF terminal	
M	echanics Properties	
Length	100±3mm	
Maintain the force	$\geq 0.5 \mathrm{kgf}$	
Coaxial cable	Black 0.81 wire	
Salt spray test 24H		
En	vironment parameter	
Operating Temp -30°C~65°C		

4. Properties & parameter

5、Electrical test report



4/20/2023 2:47:12 PM 1328.5170K92-102079-Qn



1 U Ch1 Start 2 GHz

Electrical Performance Test Parameter Table

Freq/GHz	2.4	2.45	2.5	5.15	5.50	5.85
VSWR	2.73	2.42	2.84	1.34	1.41	1.83

Pwr -10 dBm Bw 10 kHz

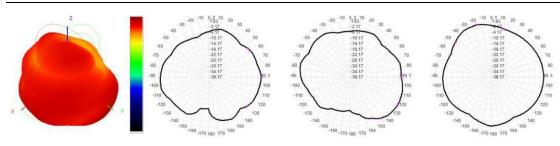
Gain & efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	1.83	42.71
2400.0	1.83	43.32
2420.0	1.94	45.44
2420.0	1.94	45.39
2430.0	1.05	45.39
2450.0	1.20	43.82
2460.0	1.06	42.84
2470.0	1.02	42.36
2480.0	0.92	42.06
2490.0	0.53	40.28
2500.0	0.22	40.19
5150.0	1.98	50.44
5200.0	2.08	50.14
5250.0	2.37	52.00
5300.0	2.91	53.24
5350.0	2.89	51.66
5400.0	3.01	55.48
5450.0	3.33	53.89
5500.0	3.52	51.34
5550.0	2.93	53.98
5600.0	3.30	50.16
5650.0	3.22	47.21
5700.0	3.07	49.33
5750.0	3.10	47.57
5800.0	3.78	46.82
5850.0	3.06	49.39

Direction diagram 2400M 3D-E1-E2-H

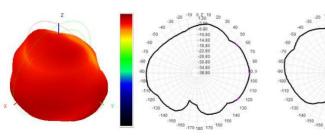
Stop 6 GHz



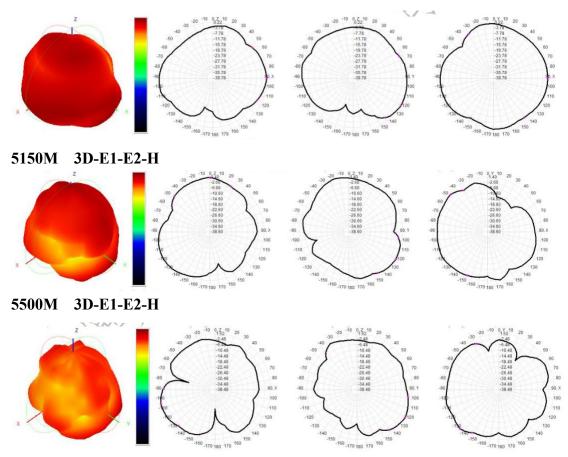


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2450M 3D-E1-E2-H



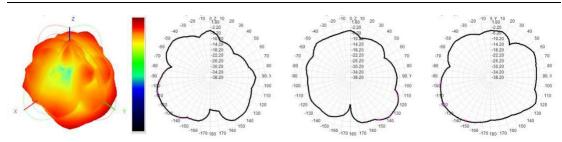
2500M 3D-E1-E2-H





-22.80





6、 Table of Materials and Hazardous Substances

Itama	specif	The]	RoHS The inspection results (PPM)						Detection
Items icatio are ns	material	Cd	Pb	Hg	Cr+6	PBB	PBD E	ICP Test number	time	
	1.13	FEP	ND	ND	ND	ND	ND	ND	NGBML2200124302	2022/1/27
1	1 line	Tin plated copper wire	ND	ND	ND	ND	ND	ND	CANEC2215409701	2022/7/22
2	FPC	PI	ND	ND	ND	ND	ND	ND	SHAEC2202460504	2022/2/21
2	2 FPC	Tape	ND	ND	ND	ND	ND	ND	CANEC2200386501	2022/1/12
		PBT	ND	ND	ND	ND	ND	ND	NGBEC22001678609	2022/6/8
3	terminal	Phosphor bronze	ND	ND	ND	ND	ND	ND	CANEC2201952007	2022/2/18



PACKING CRITERION

P/N: 74220118

Γ

Spec.: internal antenna -2.4/5G-Black 0.81 wire-terminal-L=100mm-FPC-41.2×12.3mm

-, 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.)

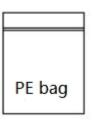
Label for PE bag/ carton, L:10cm;W:6cm				
buyer	****			

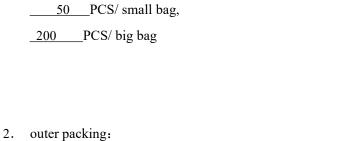
ouyer						
	Zhongshan B&T Communication Technology Co., Ltd.					
vender	Sichuan B&T Communication Technology Co., Ltd.					
Purchase No	*****					
Material No.	*****					
Part name	*****	**				
Q'ty/Unit	**** Manufacture date **** ** *					
Trace code	*****	Running water number	******			

— Nacking requirement
Operating description:
inner packing:

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

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





Quantity according to actual packing PCS/carton



Carton

Notice: