

Admit it

The product description:	The manufacturer: Welletronics Communication Technology Limited The name of the material: Bluetooth antenna Material code: 3.01.205GPXX000 The version number: V1.0	Project type: ID205G PRO Specification/Color: black Sign the sample date: 2024.04.19 note:		
The attachment:	<input checked="" type="radio"/> Description of electrical and mechanical properties (Specification) <input checked="" type="radio"/> Manufacturing flow chart <input checked="" type="radio"/> QC Engineering drawing <input checked="" type="radio"/> The sample <input checked="" type="radio"/> CPK report <input checked="" type="radio"/> Full size measurement report <input checked="" type="radio"/> Reliability test report <input checked="" type="radio"/> The packing way <input checked="" type="radio"/> Raw material list report /RoHS report/HF/REACH			
Supplier sign and approve	artificial:	audit: approval:		
The above shall be filled in by the supplier and the following shall be filled in by Aidu				
	department	Confirm the content	Verify the results	Confirm person/date
Technical confirmation column	Supplier quality	<input type="checkbox"/> RoHS material <input type="checkbox"/> no RoHS material <input type="checkbox"/> Meet REACH requirements <input type="checkbox"/> Meet halogen-free requirements <input type="checkbox"/> Other Environmental Requirements		
	ID of Design Department	<input type="checkbox"/> The customer request ID <input type="checkbox"/> Color confirmation <input type="checkbox"/> Surface process confirmation <input type="checkbox"/> Shell, hardware, key material		
	Structural engineer	<input type="checkbox"/> Confirm the size of 2D drawing files <input type="checkbox"/> Specifications and technical requirements <input type="checkbox"/> Focus on size marking control <input type="checkbox"/> Electrical performance parameter <input type="checkbox"/> Adapter validation <input type="checkbox"/> function <input type="checkbox"/> Shell, hardware, key material <input type="checkbox"/> The effect		
	Hardware engineer	<input type="checkbox"/> Confirm the size of 2D drawing files <input type="checkbox"/> Specifications and technical requirements <input type="checkbox"/> Focus on size marking control <input type="checkbox"/> Electrical performance parameter <input type="checkbox"/> Adapter validation <input type="checkbox"/> function <input type="checkbox"/> Shell, hardware, key material <input type="checkbox"/> The effect		
	R&d quality	<input type="checkbox"/> Test standard confirmation <input type="checkbox"/> appearance <input type="checkbox"/> Standardization of dimension marking (key dimensions) <input type="checkbox"/> Reliability verification <input type="checkbox"/> Adapter validation <input type="checkbox"/> function <input type="checkbox"/> The effect		
Final confirmation	Project Manager	<input type="checkbox"/> Acknowledge the completeness of the documents <input type="checkbox"/> Standardization of dimension marking (key dimensions) <input type="checkbox"/> Specifications and technical requirements <input type="checkbox"/> appearance <input type="checkbox"/> Electrical performance parameter <input type="checkbox"/> function <input type="checkbox"/> The effect		
Admitted conditions:	<input type="checkbox"/> Official recognition <input type="checkbox"/> Set limit to admit <input type="checkbox"/> Refuse to admit			
Distribution department:	<input type="checkbox"/> IQC <input type="checkbox"/> supplier <input type="checkbox"/> The customer <input type="checkbox"/> after-sales <input type="checkbox"/> SQE/ Document control <input type="checkbox"/> other _____			

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Three 、 Change history

Change of resume

Serial number	Date of change	entry name	Edition	Change content	Remarks
1	Apr 17, 2024	ID205G pro BT antenna	V1.0	nothing	New issue

Four 、 Electrical characteristics

1. Antenna Structur

FPC antenna

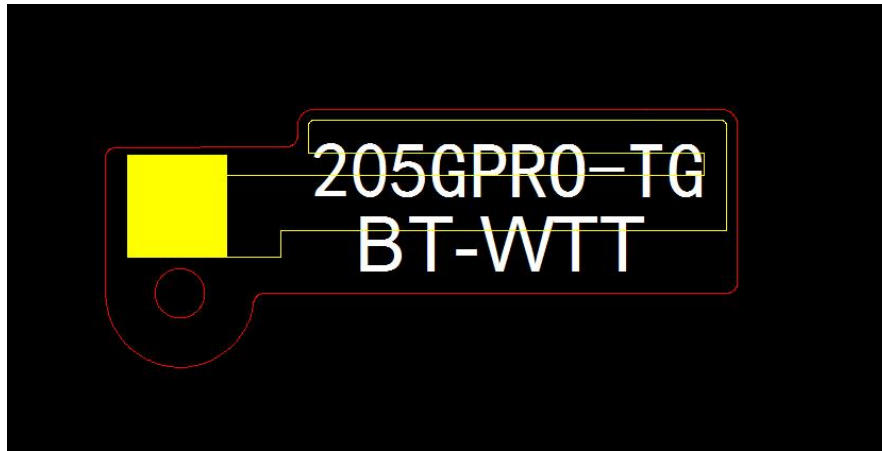


Figure antenna structure

2. Test Results

BT SWR



BT Passive efficiency

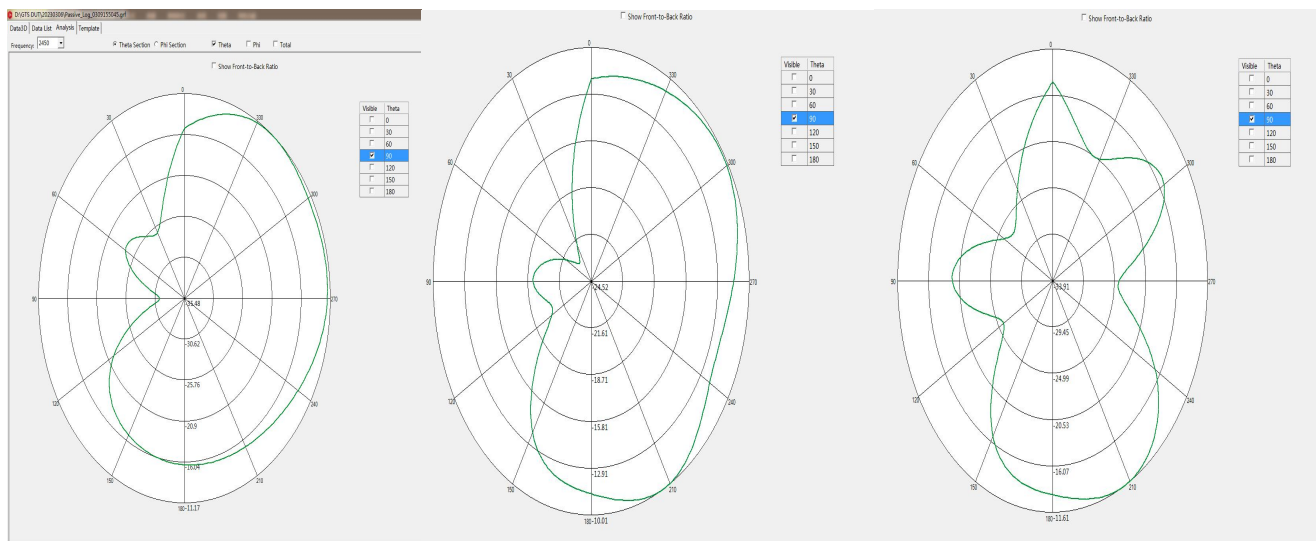
Free

Freq	Efficien cy_dB	Efficien cy_Pcent	Gain
2400	-7.67	17.09	-4.38
2410	-7.63	17.26	-4.46
2420	-7.44	18.04	-4.8
2430	-7.33	18.51	-5.11
2440	-7.09	19.54	-5.28
2450	-6.98	20.06	-5.39
2460	-6.72	21.28	-5.74
2470	-6.76	21.08	-6.06
2480	-6.77	21.06	-6.14
2490	-6.67	21.53	-6.51
2500	-7.42	18.12	-6.81

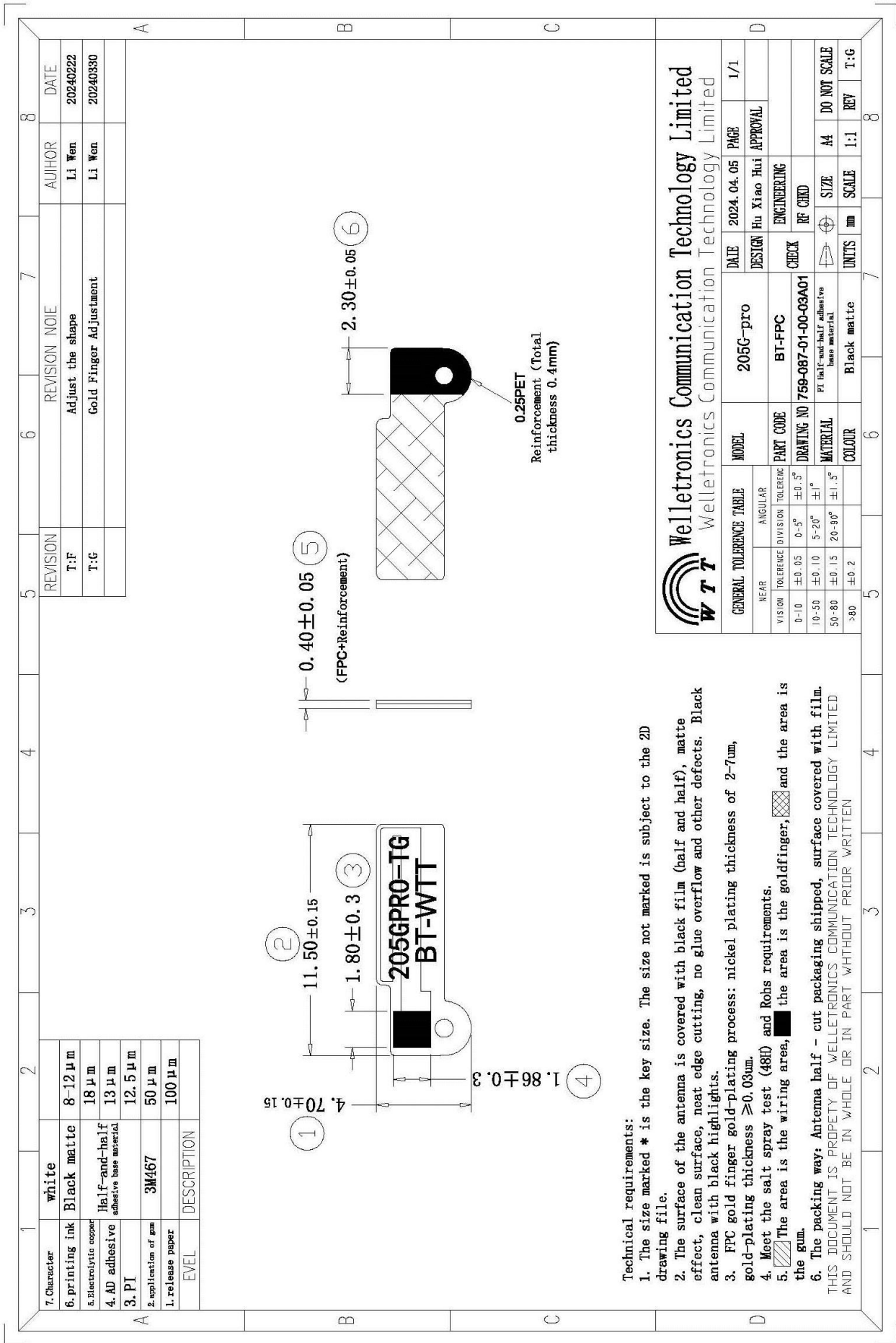
Arm

Freq	Efficien cy_dB	Efficien cy_Pcent	Gain
2400	-12.48	5.64	-10.5
2410	-11.94	6.39	-10.39
2420	-11.56	6.98	-10.09
2430	-12.06	6.23	-10.18
2440	-11.88	6.49	-10.2
2450	-11.13	7.72	-10.02
2460	-11.53	7.03	-9.52
2470	-11.21	7.56	-9.33
2480	-11.69	6.78	-9.05
2490	-12.15	6.1	-8.71
2500	-12.42	5.73	-8.59

BT Directional pattern



Five、The 2D drawings



REVISION	REVISION NOIE	AUIHOR	DATE
T:F	Adjust the shape	Li Wen	20240222
T:G	Gold Finger Adjustment	Li Wen	20240330

GENERAL TOLERANCE TABLE			
VISION	ANGULAR		CHECK
	NEAR	TOLENC	
0-10	± 0.05	$0-5^\circ$	$\pm 0.5^\circ$
10-50	± 0.10	$5-20^\circ$	$\pm 1^\circ$
50-80	± 0.15	$20-30^\circ$	$\pm 1.5^\circ$
>80	± 0.2		

DATE	DESIGN	CHECK	DATE	DESIGN	CHECK
2024.04.05	Hu Xiao Hui	ENGINEERING	2024.04.05	Hu Xiao Hui	APPROVAL

MODEL	PART CODE	DRAWING NO	MATERIAL	COLOUR	UNITS	SCALE	REV	T-G
205G-pro	BT-FPC	759-087-01-00-03A01	FPC half-and-half adhesive base material	Black matte	mm	1:1	A4	DO NOT SCALE

W T T Welletronics Communication Technology Limited

Six、 Full-scale measurement report

Full-scale measurement report

Vendor	Material name		FPC		Part No		Tool Number		Cav. Number		Unit		Comments										
	WTT	Material Code			Part Name	205G-PRO BT-FPC			Rev	T:G	<input type="checkbox"/> INCHES	<input checked="" type="checkbox"/> MILLIMETERS											
Date	19-Apr-24																						
#	DIMENSION	DRAWING	+ TOL.	- TOL.	NOTE	MEASURED DIMENSION					% TOLERANCE USED						DISPOSITION				ACCEPTABLE VARIANCE		
						SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	UPPER	LOWER	0%-25%	25%-50%	50%-75%	75%-100%	100%+	Re-Measure	Accept	Fix Tool	Accept With Variance	DIMENSION	+ TOL.
1	4.70		0.15	0.15		4.71	4.76	4.68	4.67	4.66	40%	27%	X										
2	11.50		0.15	0.15		11.52	11.51	11.53	11.49	11.48	20%	13%	X										
3	1.80		0.30	0.30		1.81	1.83	1.82	1.79	1.78	10%	7%	X										
4	1.86		0.30	0.30		1.87	1.86	1.85	1.84	1.80	3%	20%	X										
5	0.40		0.05	0.05		0.41	0.42	0.39	0.40	0.41	40%	20%	X										
6	2.30		0.05	0.05		2.31	2.32	2.28	2.29	2.33	60%	40%		X									
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