

# Admit it

The product description:	The manufacturer: Welletronics Communication Technology Limited The name of the material: Bluetooth GPS metal middle frame RF antenna Material code: The version number: V1.0	Project type: GTX02 Specification/Color: Sign the sample date: 2023.07.24 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"/> Meet REACH requirements <input type="checkbox"/> no RoHS material	<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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QF-QMP-QA01-01

## **Catalog**

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Three 、 Change history

Change of resume

Serial number	Date of change	entry name	Edition	Change content	Remarks

## Four、 Electrical characteristics

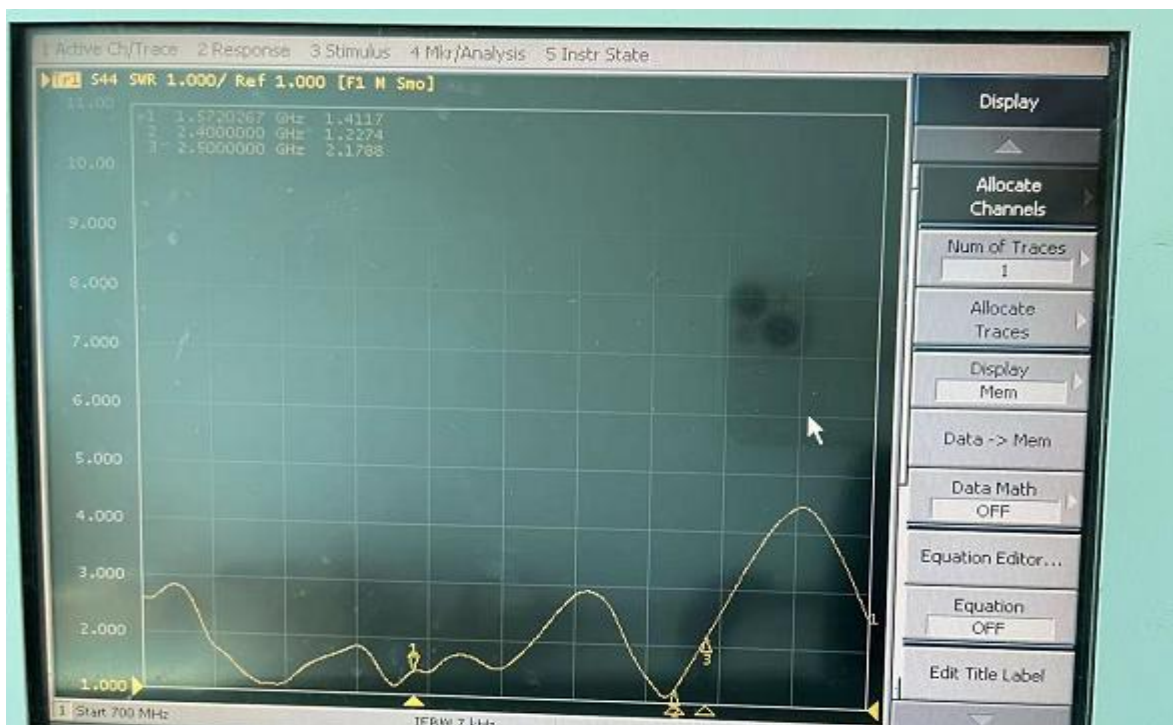
### 1. Antenna Structure



Figure antenna structure

## 2. Test Results

### BT-Return Loss/VSWR



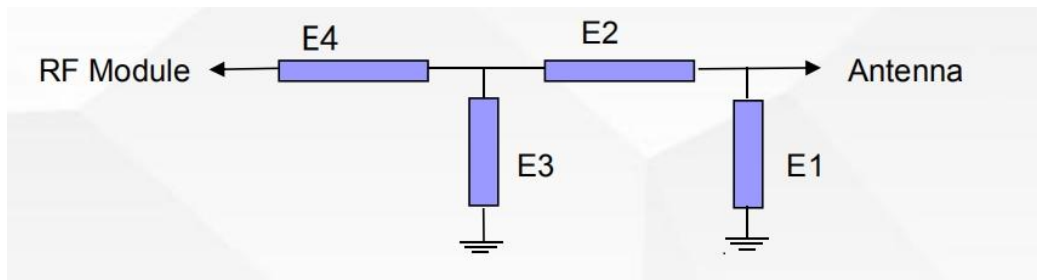
**Test Repor No source by space test efficiency/pattern**

free

arm

Freq	Effi	Effi	Gain		Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)		(MHz)	(%)	(dB)	(dBi)
1530	17.64	-7.53	-2.95		1530	12.75	-8.94	-3.01
1540	17.14	-7.66	-3.02		1540	12.13	-9.16	-3.06
1550	19.18	-7.17	-2.48		1550	12.71	-8.96	-2.74
1560	20.16	-6.95	-2.29		1560	12.52	-9.02	-2.95
1570	21.11	-6.76	-2		1570	12.26	-9.11	-3.22
1580	22.18	-6.54	-1.63		1580	11.98	-9.22	-3.42
1590	22.25	-6.53	-1.5		1590	11.4	-9.43	-3.52
1600	23.21	-6.34	-1.19		1600	11.55	-9.38	-3.39
1610	24.37	-6.13	-0.78		1610	11.74	-9.3	-3.3
1620	21.86	-6.6	-1.15		1620	10.46	-9.8	-3.92
Freq	Effi	Effi	Gain		Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)		(MHz)	(%)	(dB)	(dBi)
2400	16.03	-7.68	-3.78		2400	6.81	-11.67	-6.35
2410	16.69	-8.04	-3.66		2410	6.95	-11.58	-6.37
2420	17.07	-8	-3.5		2420	7.03	-11.53	-6.32
2430	15.84	-8.14	-3.8		2430	6.84	-11.65	-6.37
2440	15.39	-8.13	-3.71		2440	6.76	-11.7	-6.11
2450	15.22	-8.18	-3.75		2450	6.74	-11.71	-6.14
2460	16.34	-8.25	-3.54		2460	6.66	-11.76	-6.45
2470	17.61	-8.05	-3.14		2470	6.62	-11.79	-6.5
2480	18.24	-7.87	-3		2480	6.47	-11.89	-6.31
2490	19.28	-7.54	-2.73		2490	6.04	-12.19	-6.51
2500	19.07	-7.39	-2.84		2500	5.74	-12.41	-6.72

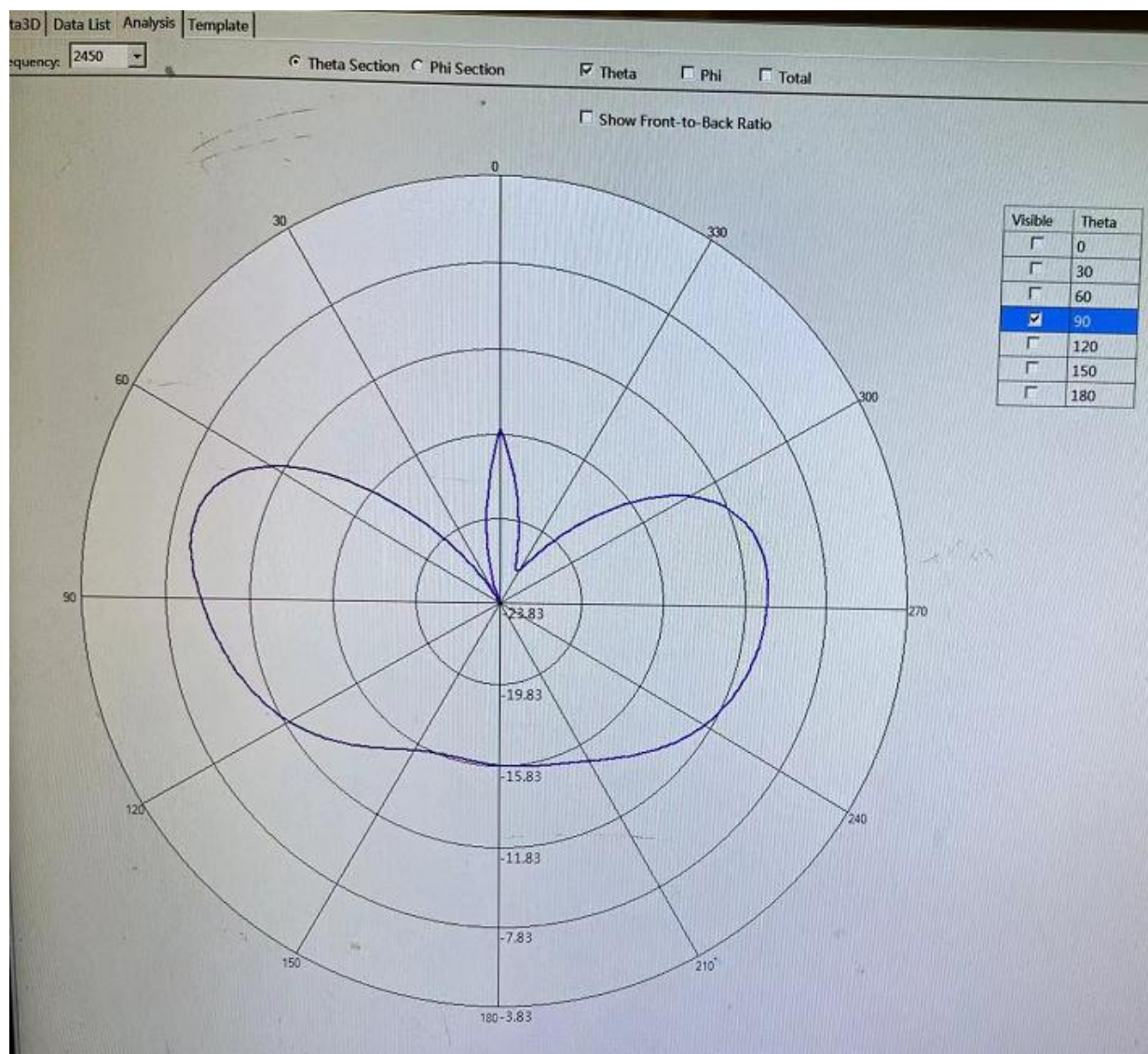
Match



Antenna	Element	Value
	E1	
	E2	0R
	E3	
	E4	0R

### 3. The direction of figure

BT arm pattern



### Five、 The 2D drawings

