

SPECIFICATION APPROVAL SHEET



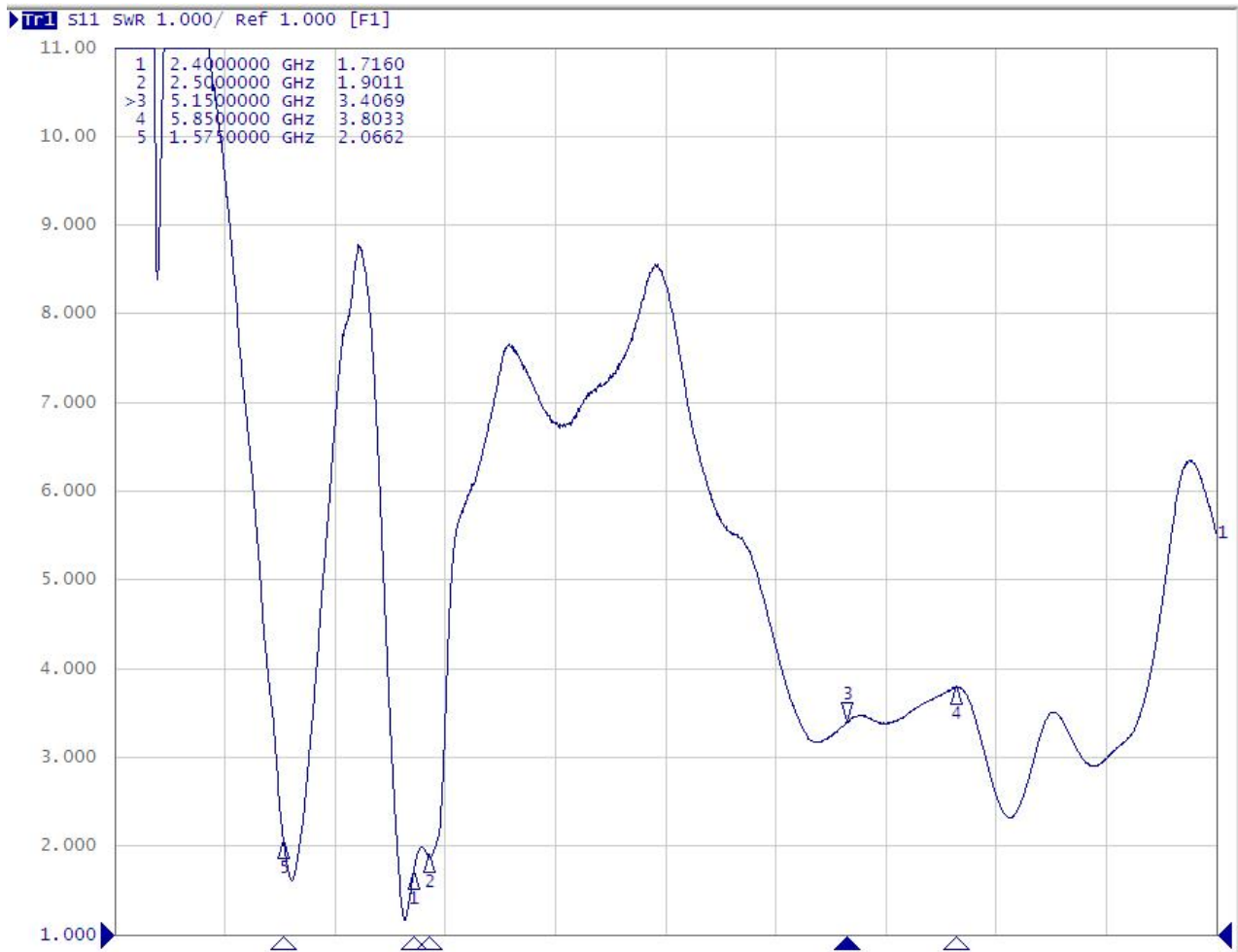
Material **F55**
Name:
Material 01. 02. 021. 000196
Code:
Material 3in1
Name:
Supplier: Fuzhou ZHONGTIANXUN Communication
 Technology Co., Ltd
Sample 2025. 7. 15
Delivery
Date:
Rev. : V1. 1

Address:Room 202, Huatong Zhongchuang Building, No.45 Juyuanzhou Park,
Jinshan Industrial Zone, Cangshan District, Fuzhou City

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A. Product Specification sheet / 2D drawing/Product Material composition list

A-1 VSWR



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A-2 Antenna passive test

chNo	Freq(MHz)	Gain(dBi)	Efficiency (%)
1	1550	-1.06808	30.0073
2	1555	-0.66023	31.58147
3	1560	-0.31732	33.2691
4	1565	-0.04031	34.4721
5	1570	0.025433	35.19296
6	1575	0.009831	35.47451
7	1580	-0.12901	35.33497
8	1585	-0.12419	35.35619
9	1590	-0.27564	35.50733
10	1595	-0.26042	34.10428
11	1600	0.441923	34.0686
12	1605	0.387293	33.58585
13	1610	0.371144	32.96173
14	1615	0.34192	31.64594
15	1620	0.198259	31.08719
16	2400	1.82792	35.82365
17	2410	1.84741	35.39174
18	2420	2.16766	35.1844
19	2430	1.94922	34.45715

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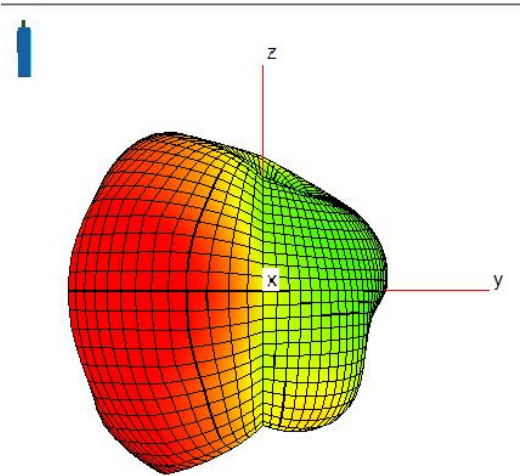
20	2440	1.53626	33.0348
21	2450	1.51701	32.92646
22	2460	1.36703	31.98715
23	2470	1.15405	31.74616
24	2480	-1.21766	30.92772
25	2490	-1.07653	29.76709
26	2500	-1.26521	30.25607
27	5150	-4.19849	17.10902
28	5200	-4.51992	16.45382
29	5250	-4.11331	18.27335
30	5300	-3.3238	18.96483
31	5350	-1.9454	19.91559
32	5400	-2.50556	20.49659
33	5450	-2.58128	19.6394
34	5500	-2.93313	18.69811
35	5550	-4.38035	19.52127
36	5600	-4.03064	17.17291
37	5650	-4.25123	18.09091
38	5700	-5.92408	17.03887
39	5750	-5.20168	15.78911
40	5800	-6.61255	14.311474

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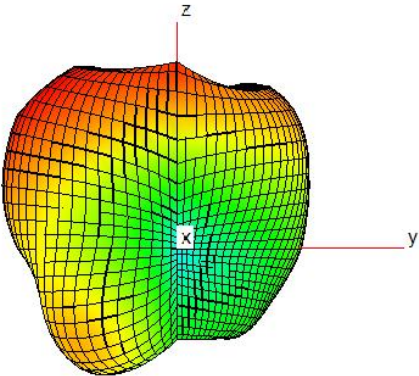
41	5850	-5.14482	15.6165
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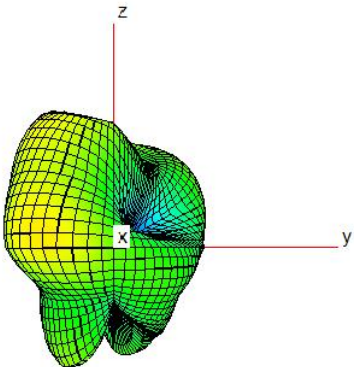
A-3 3D radiation drawing



1575MHZ



2450MHZ



5550MHZ

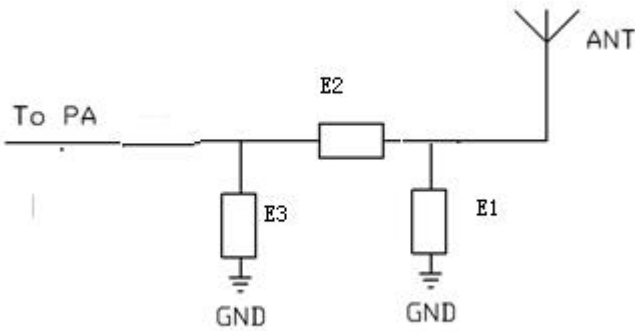
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A-5 Active test data

Frequency band	Parameter \ Channel	1	7	13
11B	TRP(dBm)	12.97	13.35	11.79
	TIS(dBm)	-79.48	-82.17	-84.60
Frequency band	Parameter \ Channel	36	64	157
11A	TRP(dBm)	12.50	12.08	10.78
	TIS(dBm)	-61.16	-68.60	-64.36

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A-6 Matching circuit



Matching structure	
E1	NC
E2	1nH
E3	0.5pF

A-7 Engineering drawing

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1		2		3		4		5		6		7		8																																																									
NO. : ZTX-QR-RD-013		Copper foil		Product shape		gild		Release paper slot		Rev		Description		Designed																																																									
										A1		First edition		Hui Xiaoliang																																																									
11.00±0.05 (D) 0.1±0.03 (E) No release paper included 2-3.95±0.30 (C) 5.42±0.05 (B) 2-2.85±0.05 (A) 26.55±0.15 (F) *32.44±0.15 (G) Reverse handle																																																																							
Code description: 25 XX Represents the first few weeks of the year, and the cycle numbers correspond to actual production times. On behalf of the production date for 2025.																																																																							
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Note: 1. The dimensions marked in the figure are the key control dimensions. All measurements are required for trial production or mold samples, and the dimensions with "*" are required for IQC; No tolerance is controlled by reference to the tolerance table in the drawing frame; 2, the line adopts the silk screen printing process; 3, surface treatment requirements: nickel plating 2-7um, gold plating 0.03um; 4, the shape should be blanked smooth and smooth, and can not be blanked to the internal line; 5, the surface of the product can not have stains, wrinkles, copper exposure and other bad problems; 6, gold-plated area required to pass the salt spray test 48H; 7, the ink surface needs to pass the test requirements; 8, all materials should meet RoHS2.0, REACH, POPs, halogen-free requirements; 9, packaging: single shipment (100pcs/ package); 10, without the confirmation of ZTX company, the material can not be changed at will;																																																																							