



Shenzhen Yingjiachuang Electronic Technology Co., LTD

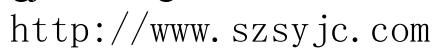
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APPROVAL SHEET

CUSTOMER NAME		
CUSTOMER P/N		
PART NAME	2.4G Ceramic Antenna 3216	
P/ N	YJC-90N1689	
APPROVAL REV.	A0	
DELIVERY DATE	September 2nd, 2025	
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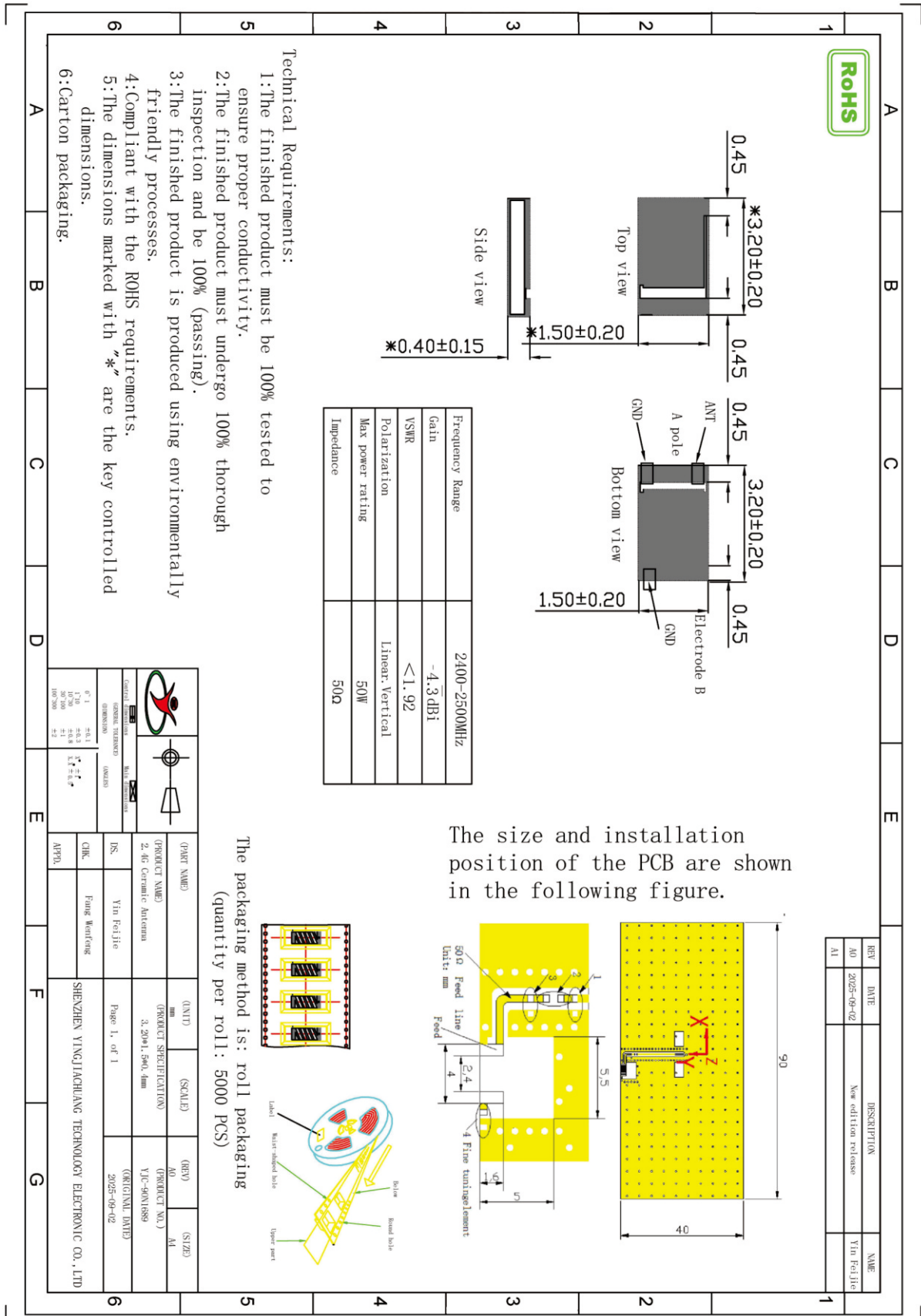


Revise the resume:

edition	Content of change and reasons for change	date	release
A0	First edition release	September 2nd, 2025	



Antenna plan view:





Antenna technical parameters and environmental testing:

Electrical technical parameters			
Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500MHz	Antenna material	ceramic
VSWR	<1.92	Working Temperature	-30℃~+80℃
Input Impedance	50 Ω	Working Humidity	20%~80%
Direction	All		
Gain	-4.3dBi		

Environmental performance test:

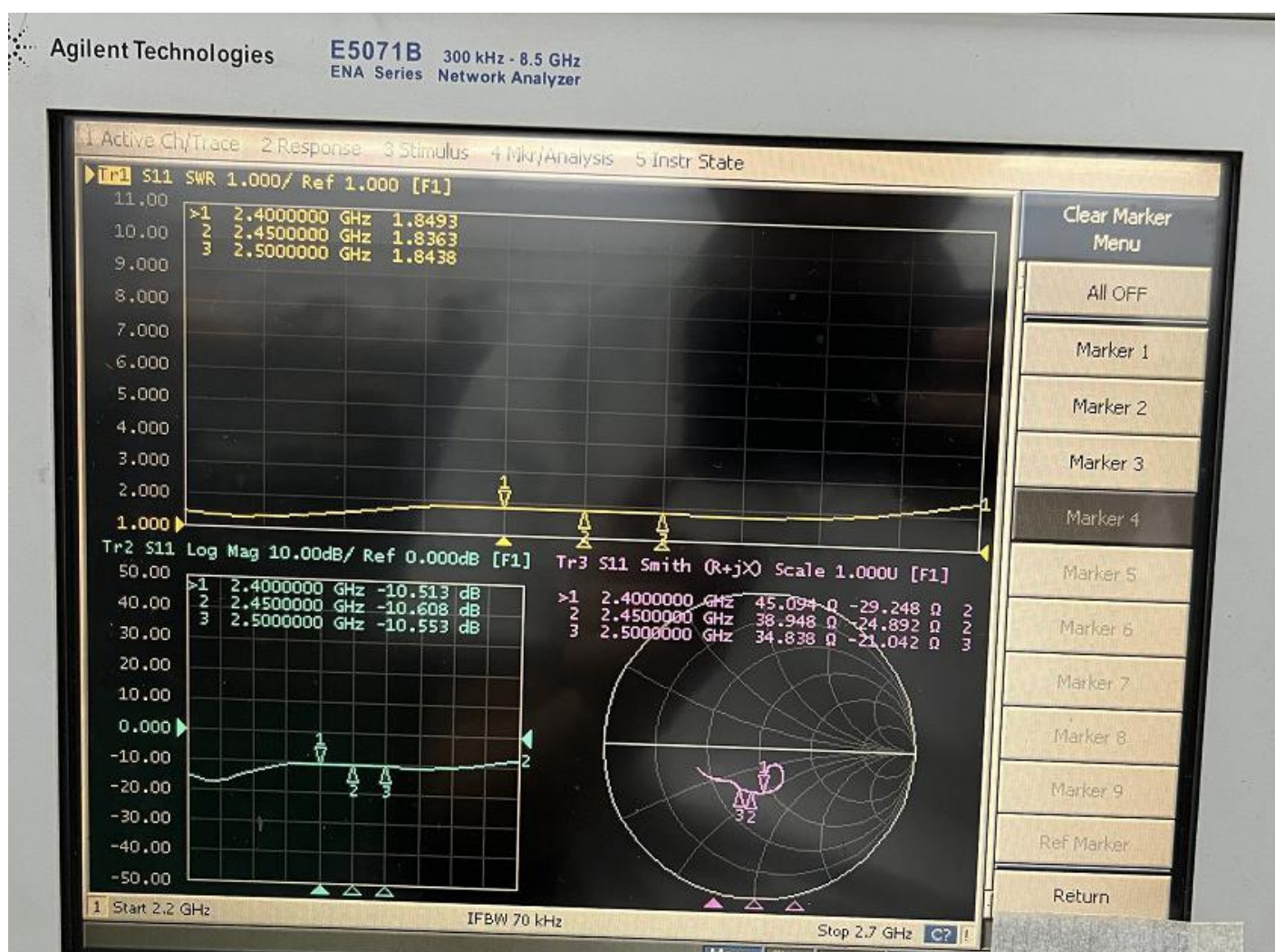
Project	Test condition	Standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows: 1. Temperature is - 30 ℃ ~ + 80 ℃ 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical performace is normal
High and low temperature test	Between 70 ℃ and -20 ℃ for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and meet the performance of mechinery and electric.
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 ℃. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality	Size should meet the requirements and meet the performance of mechinery and electric.
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical performace is normal
Fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical performace is normal



Antenna physical diagram:



Antenna performance test chart:

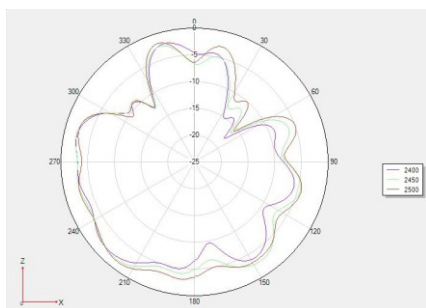




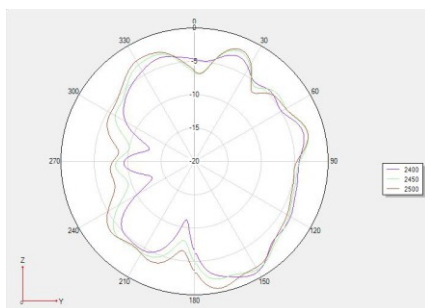
2D. 3D test data (2.4G):

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	35.89	0.81
2410MHz	36.81	0.84
2420MHz	38.28	1.06
2430MHz	39.36	0.98
2440MHz	39.99	1.04
2450MHz	39.72	0.96
2460MHz	38.28	0.7
2470MHz	37.93	0.67
2480MHz	34.99	0.23
2490MHz	35.32	0.14
2500MHz	36.93	0.49

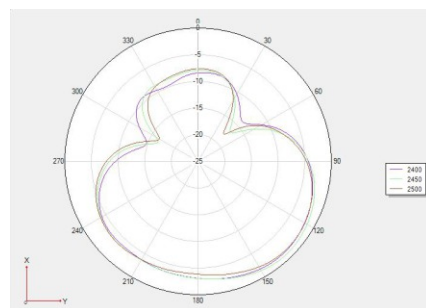
Phi 0 2D



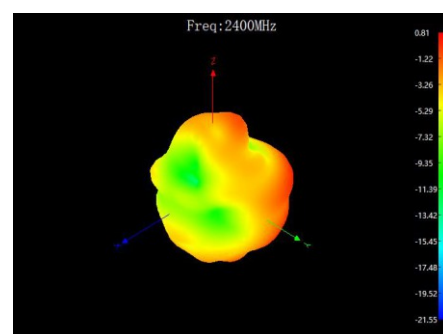
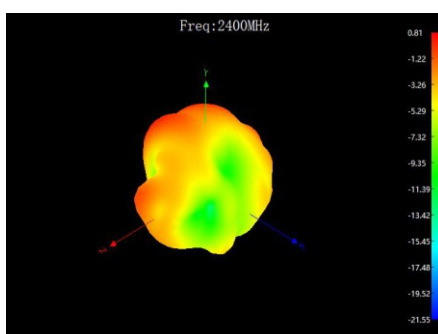
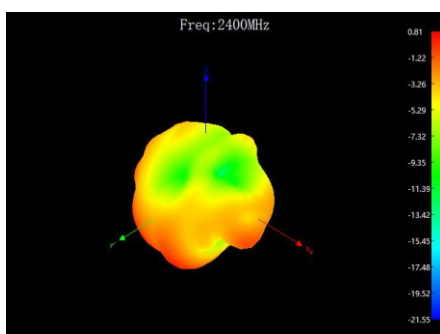
Phi 90 2D



Theta 90 2D

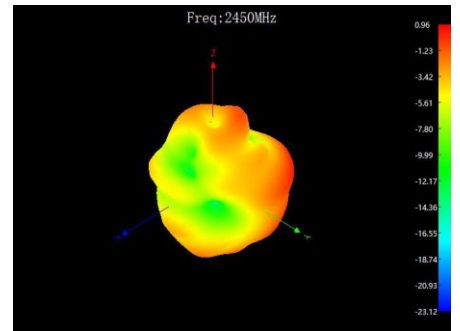
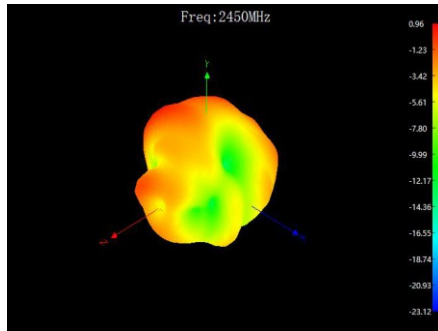
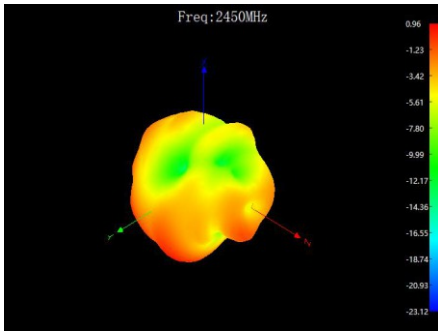


2400MHz:

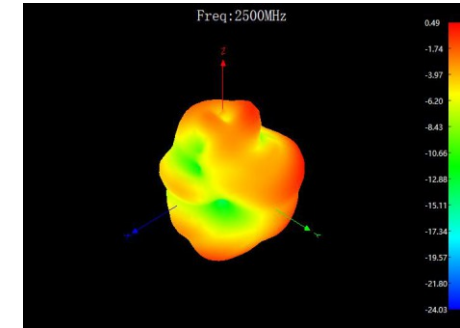
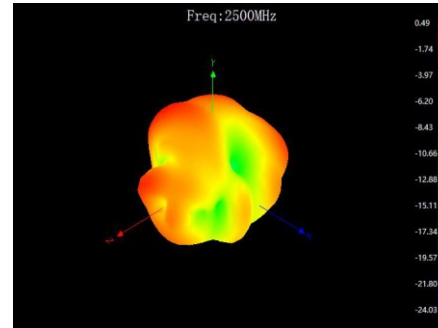
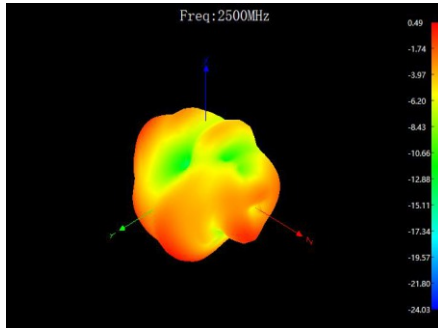




2450MHz:



2500MHz:





ROHS 2.0 Material Control Report

Material Name	Composition materials	ICP Report Number	Testing institution	Test time	Test result values (unit: ppm, mg/kg for each sample)										Note
					Pb	Cd	Hg	Cr6+	PBB	PBDE	DIBP	DEHP	BBP	DBP	
Ceramics	18*18	S251015060001-1	SOAR	2025/10/27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	