



APPROVAL SHEET

CUSTOMER NAME		
CUSTOMER P/N		
PART NAME	Black split antenna for WIFI6	
P/ N	YJC-60501-B116	
APPROVAL REV.	A1	
DELIVERY DATE	May 7, 2025	
PREPARED BY	Yin Feijie	
CHECKED BY	Fang Wenfeng	
APPROVED BY	Chauhan	
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catalogue

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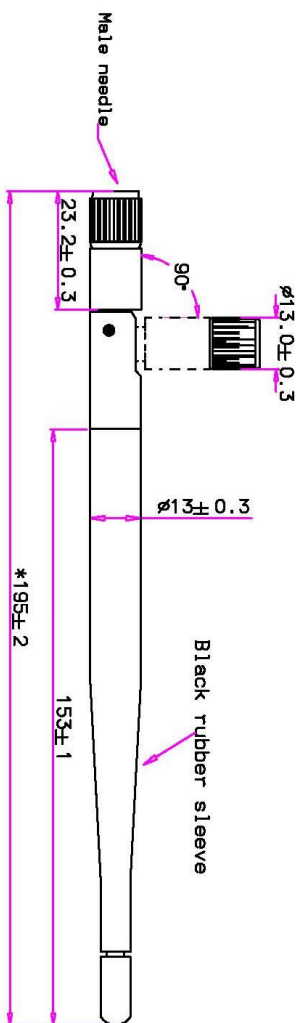


resume:

edition	Content of change and reasons for change	date	release
A/0	First edition release	April 24, 2025	
A/1	Optimize the test data	May 7, 2025	



Antenna plan:

A	B	C	D	E	F	G																																								
1						<table border="1"><thead><tr><th>REV</th><th>DATE</th><th>DESCRIPTION</th><th>NAME</th></tr></thead><tbody><tr><td>A0</td><td>2025-04-24</td><td>New version released</td><td>Yin Feijie</td></tr></tbody></table>	REV	DATE	DESCRIPTION	NAME	A0	2025-04-24	New version released	Yin Feijie																																
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6	Requirement: 1. The finished product must be tested 100% to ensure that the conduction is OK 2. The finished products must pass 100% full inspection. 3. Adopt environmentally friendly manufacturing processes. Finished product 4. Comply with RoHS requirements. 5. For unspecified tolerances, please refer to the general tolerances. 6. * Mark the dimensions as key points																																													
<table border="1"><thead><tr><th>Frequency Range</th><td>2400-2500/5150-5850MHz</td></tr><tr><th>Gain</th><td>1.0dBi</td></tr><tr><th>VSWR</th><td><3.6</td></tr><tr><th>Polarization</th><td>Linear, Vertical</td></tr><tr><th>Max power rating</th><td>50W</td></tr><tr><th>Impedance</th><td>50Ω</td></tr></thead></table> The order item must be affixed with a material identification label (please refer to the RoHS label) 800PCS per box 							Frequency Range	2400-2500/5150-5850MHz	Gain	1.0dBi	VSWR	<3.6	Polarization	Linear, Vertical	Max power rating	50W	Impedance	50Ω																												
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Antenna technical parameters and environmental testing:

Electrical technical parameter			
Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500/5150-5850MHz 5925-7125MHz	Antenna Color	Black
VSWR	<3.6	Input connector	SMA
Input Impedance	50 Ω	Cable length	195mm
Direction	All	Working Temperature	-20℃~+70℃
Gain	1.0dBi	Working Humidity	20%~80%

Environmental performance test:

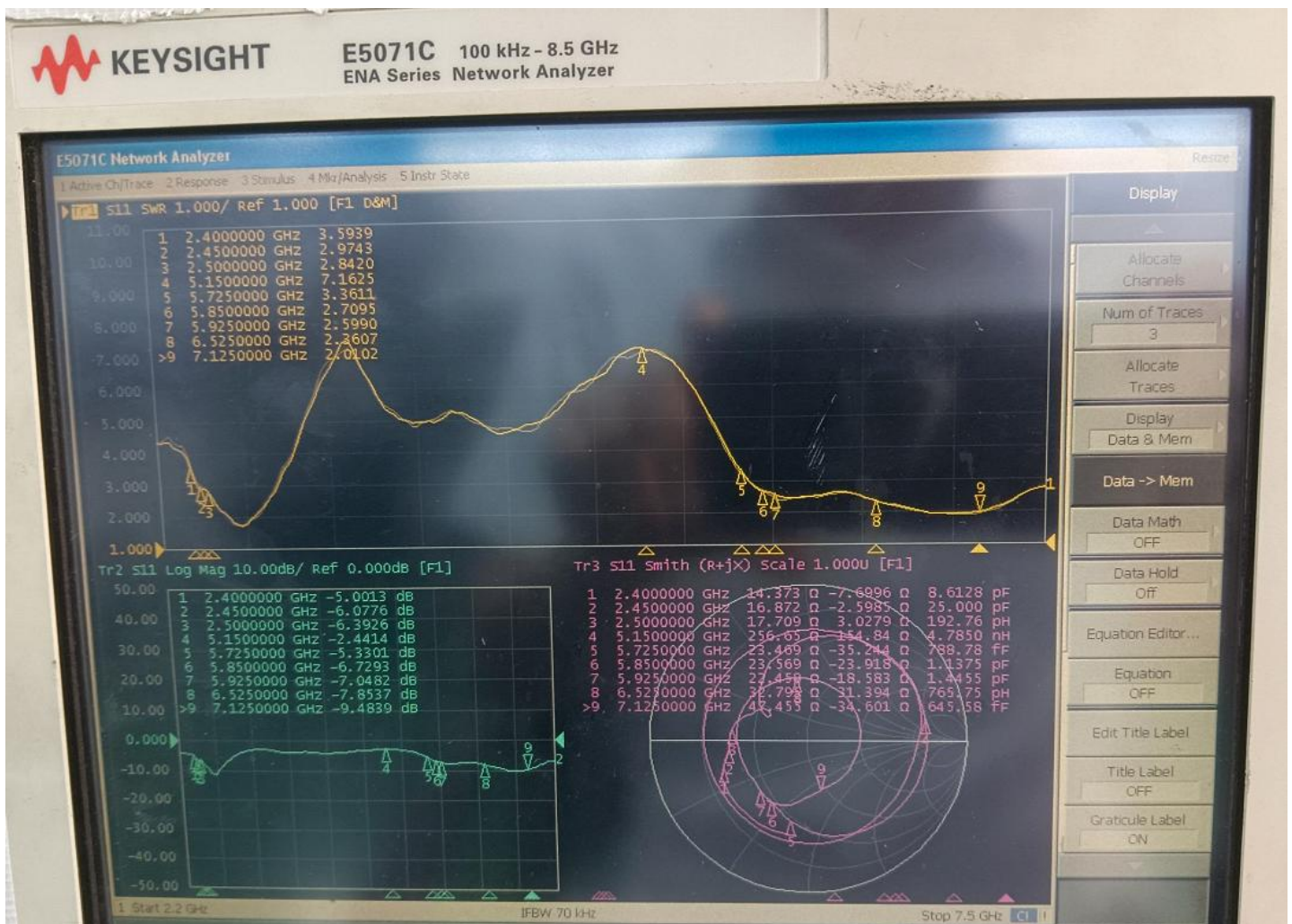
Project	Test condition	Standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows:: 1. Temperature is - 30 °C ~ + 80 °C 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical performance is normal
High and low temperature test	Between 70 °C and -20 °C for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and meet the performance of machinery and electric.
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 °C. 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 machinery 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 performance is normal
Fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical performance is normal



Antenna diagram:



Antenna performance test diagram:



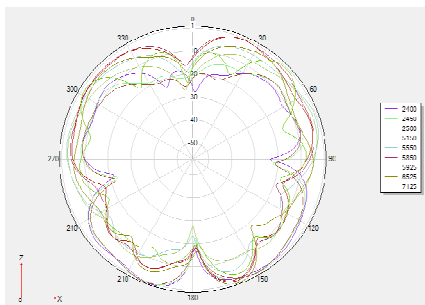


2D.3D test data (WIFI6):

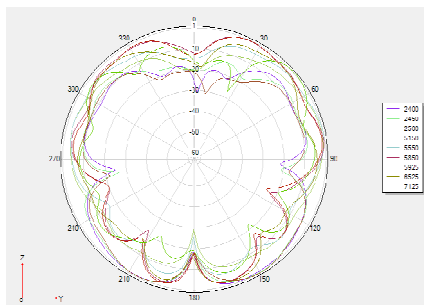
Frequency (MHz)	Efficiency (%)	Gain. (dBi)
2400	37.93	0.64
2410	36.97	0.55
2420	35.2	0.57
2430	37.61	0.4
2440	36.7	0.7
2450	38.44	0.49
2460	36.99	0.85
2470	40.04	0.64
2480	40.96	0.75
2490	39.65	0.77
2500	35.65	0.67
5150	28.67	-0.73
5250	28.24	-0.66
5350	31.65	-0.51
5450	34.28	-0.33
5550	40.18	0.42
5650	39.63	0.36
5750	34.9	-0.08
5850	34.98	-0.06
5925	35.08	0.43
6025	32.36	0.43
6125	30.62	0.61
6225	29.85	0.34
6325	26.55	-0.34
6425	27.86	-0.19
6525	32.91	0.55
6625	31.89	0.44
6725	34.2	0.69
6825	30.41	0.6
6925	28.42	0.25
7025	35.25	1.03
7125	36.36	1.06



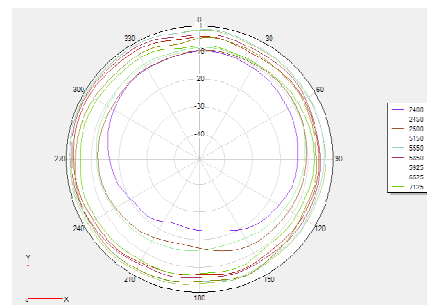
Phi 0 2D



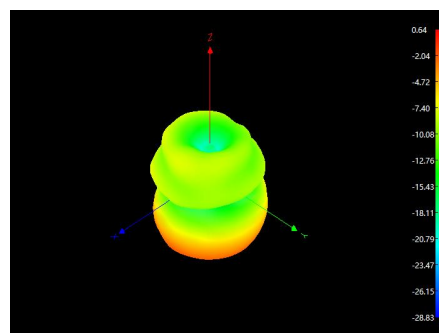
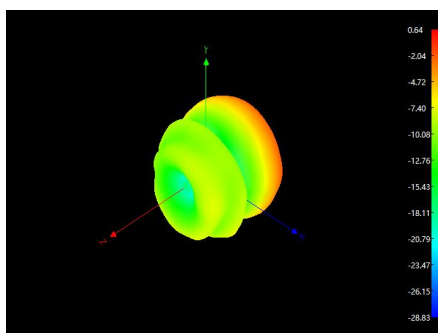
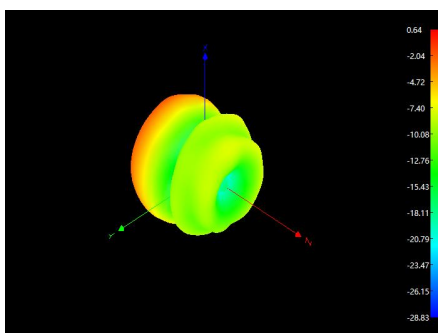
Phi 90 2D



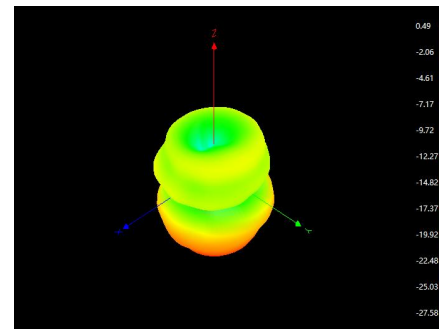
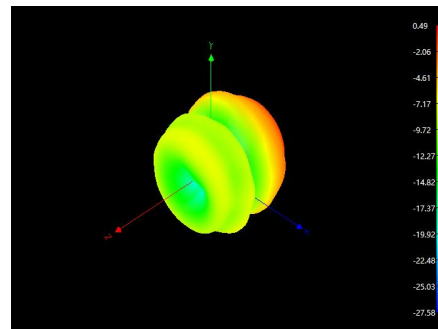
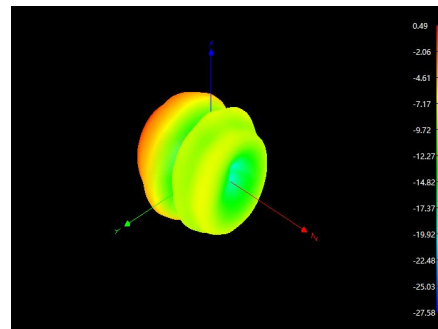
Theta 90 2D



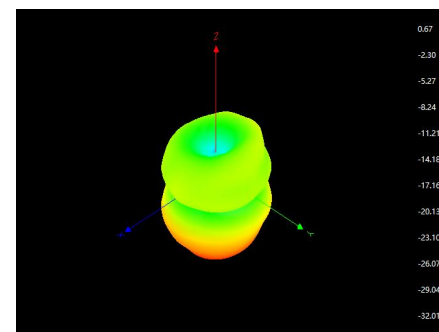
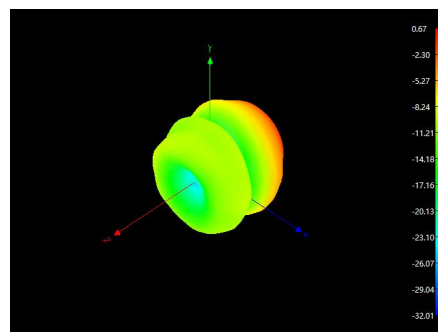
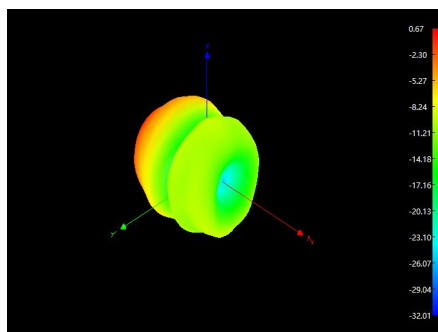
3D 2400:



3D 2450:

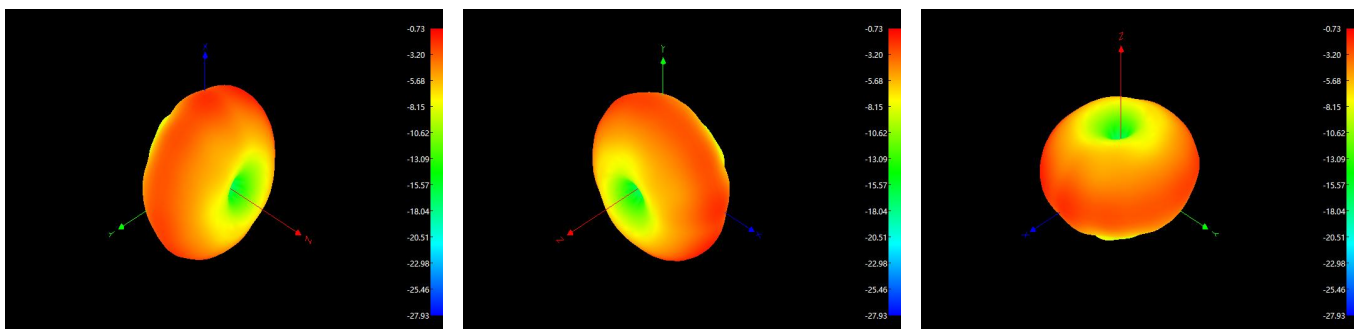


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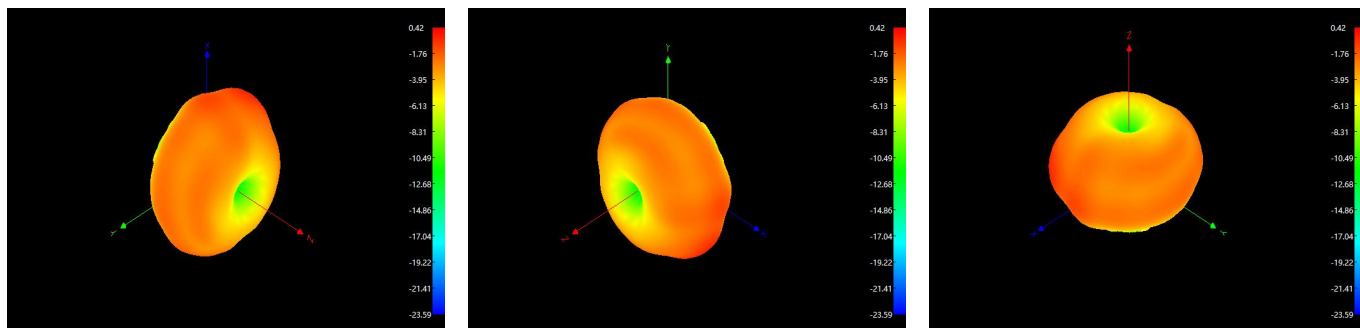




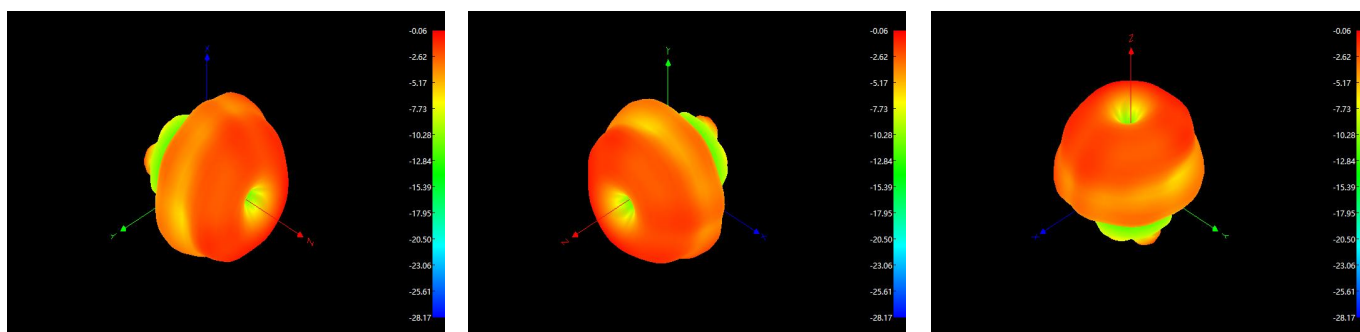
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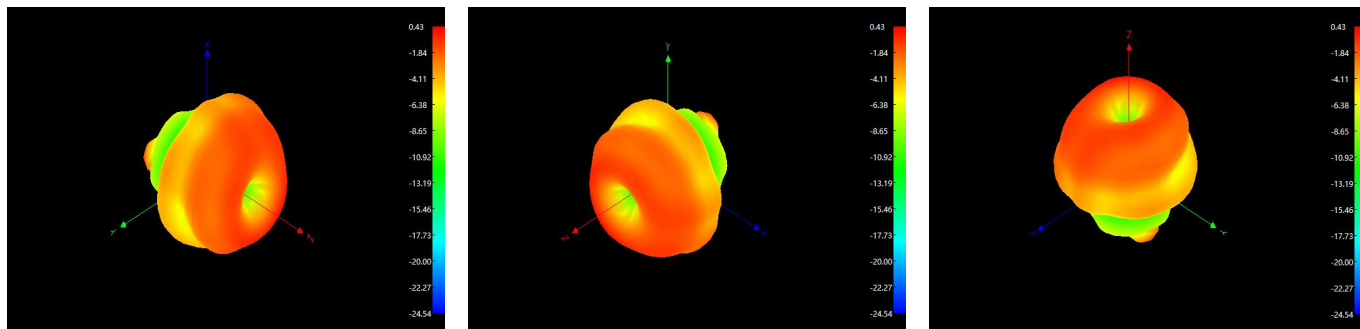
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3D5850:

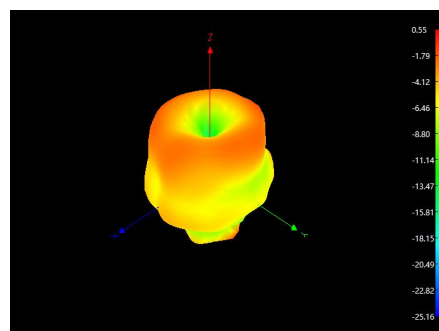
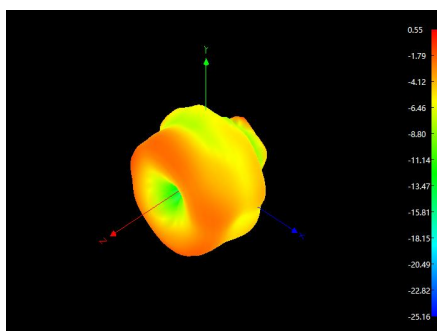
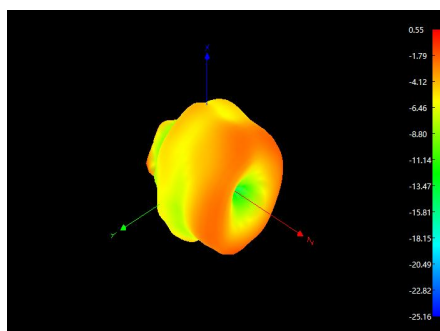


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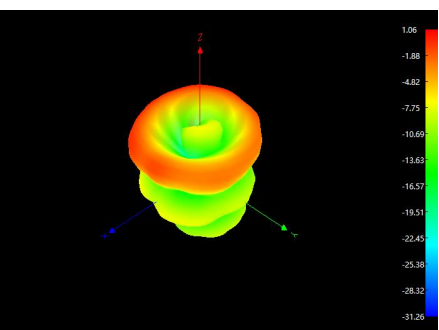
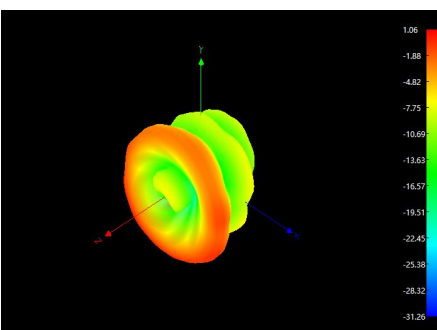
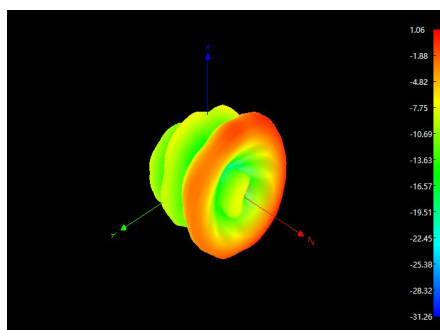




3D6525:



3D7125:





Material RoHS conformity declaration form											
This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)											
About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:											
Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Content of harmful substances (ppm)						PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
Wire rod	Coaxial cable	SZXEC24002490602	SGS	24/08/08	ND	ND	ND	ND	ND	ND	PASS
Plastic parts	TPEE	A2250006875128004	CTI	25/02/25	ND	ND	ND	ND	ND	ND	PASS
	PC	SZXPC25000043101	SGS	25/01/10	ND	ND	ND	ND	ND	ND	PASS
	POM	EKR24B01872M01	SGS	24/12/03	ND	ND	ND	ND	ND	ND	PASS
	PC +PBT	A2250006875128001	CTI	25/02/25	ND	ND	ND	ND	ND	ND	PASS
SMA	Rubber core	TAOEC24005791401	SGS	24/08/26	ND	ND	ND	ND	ND	ND	PASS
	Brass	CANEC25000093414	SGS	25/01/09	10	26483	ND	ND	ND	ND	PASS
	Gold coating	SZXPC25001098202	SGS	25/04/10	ND	92	ND	ND	ND	ND	PASS
	Nickel coating	SZXPC25001098206-1	SGS	25/04/10	ND	91	ND	ND	ND	ND	PASS
Spring	copper	CANEC24020128702	SGS	24/09/13	ND	35	ND	ND	ND	ND	PASS
PCB	PCB	CANEC24019790710	SGS	24/09/14	ND	17	ND	ND	ND	ND	PASS
3M	3M9448A	CANEC24028865442	SGS	25/01/03	ND	14	ND	ND	ND	ND	PASS