

SPECIFICATION FOR APPROVAL

CUSTOMER NAME:

PRODUCT NAME: 2.4GHz Ceramic Antenna

CUSTOMER P/N:

YR P/N: OA-C11 REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	LIU	
APPROVED BY:	EVINE	
DATE:	2024/5/21	

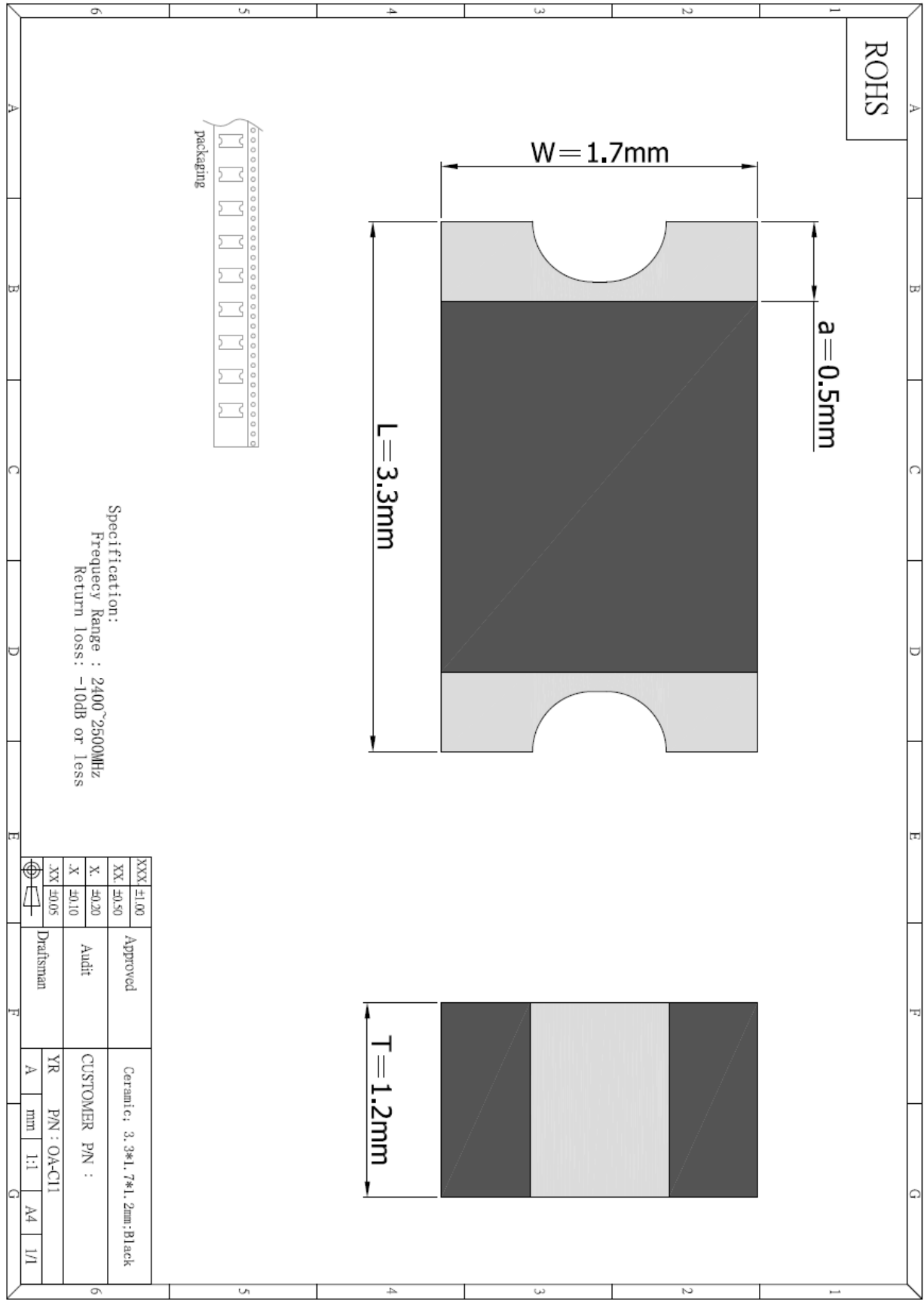
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1. Main technical parameters of products

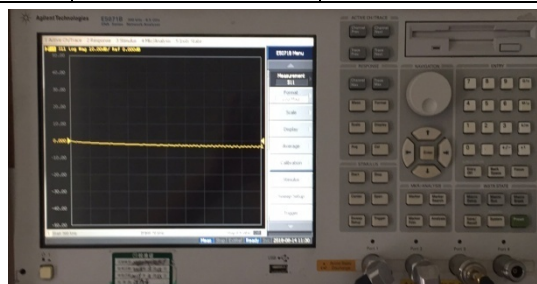
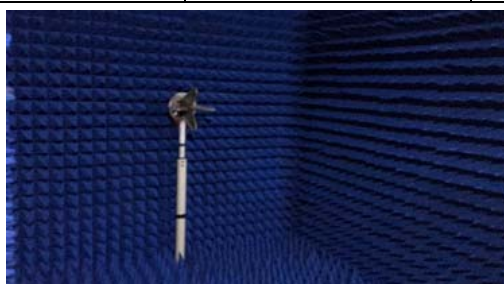
Main technical specifications	
Trade Name	Dongguan Yirui Electronic Technology Co. , Ltd.
Frequency Range (MHZ)	2400~2500
Impedance(Ω)	50±10
Gain(dBi)	3.44
VSWR	≤1. 92
Admitted Power	1W
Polarization	Line,Vertical
Connector Type	SMT
Physical Properties	
Antenna Type	Ceramic
Operating Temp	-20℃~+70℃
Storage Temp	-20℃~+70℃

2. Structure diagram:

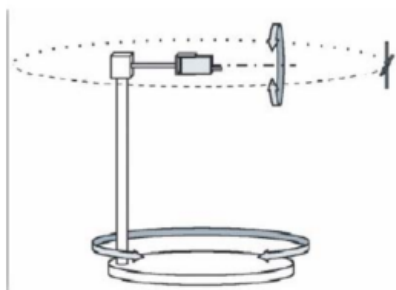


3. Test environment

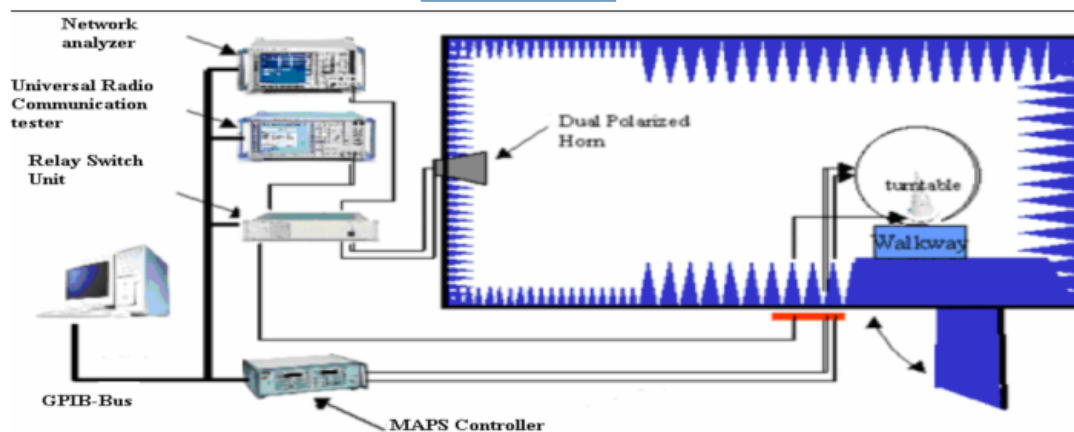
/	Test items	Equipment		
		Equipment	Model No	Manufacturers
S11	1. Return loss 2.VSWR	Analyzers	E5071B	Agilent
		Coaxial Cable	RG316	YiRui
Testing	1. 2D、3DRaditation Pattern	OTA	ETS 5*3*3(3D)	Guang Ping
		Analyzers	E5071B	Agilent
	2. Antenna gain	PC Console	Win 7	ASUS
	3. Antenna efficiency	OTA	ETS;Far Field probe	Guang Ping
		3D turntable	$\phi 1*1*1.5(3D)$	Guang Ping



ETS OTA Test principle

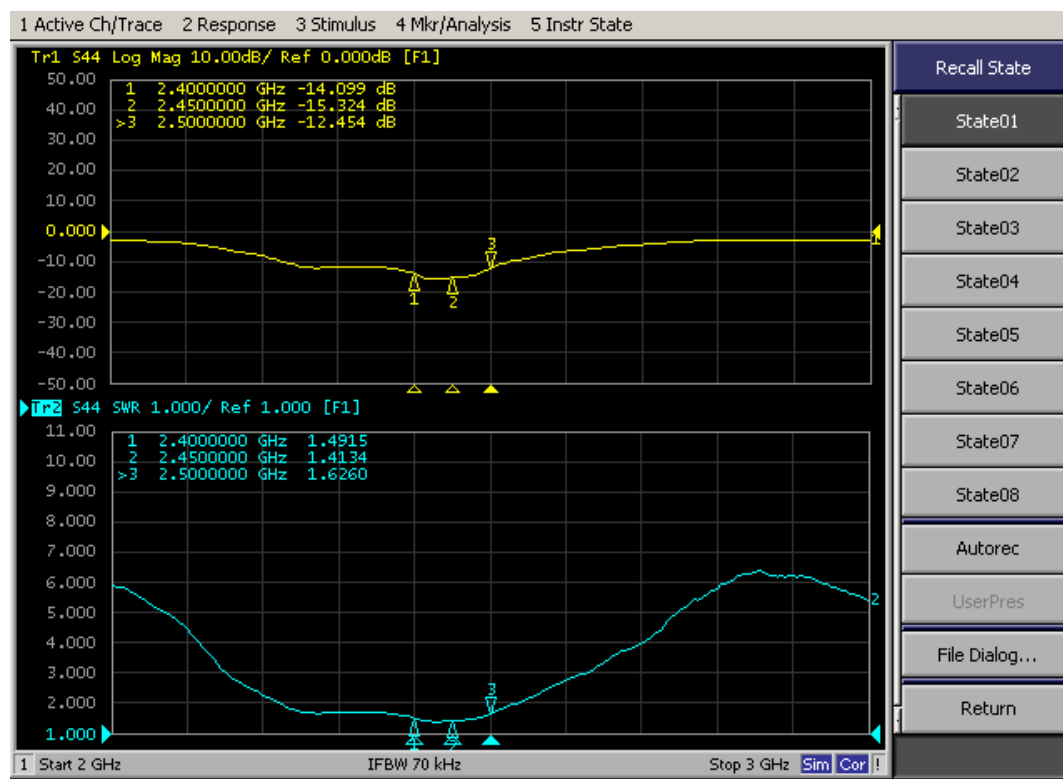


3D turntable



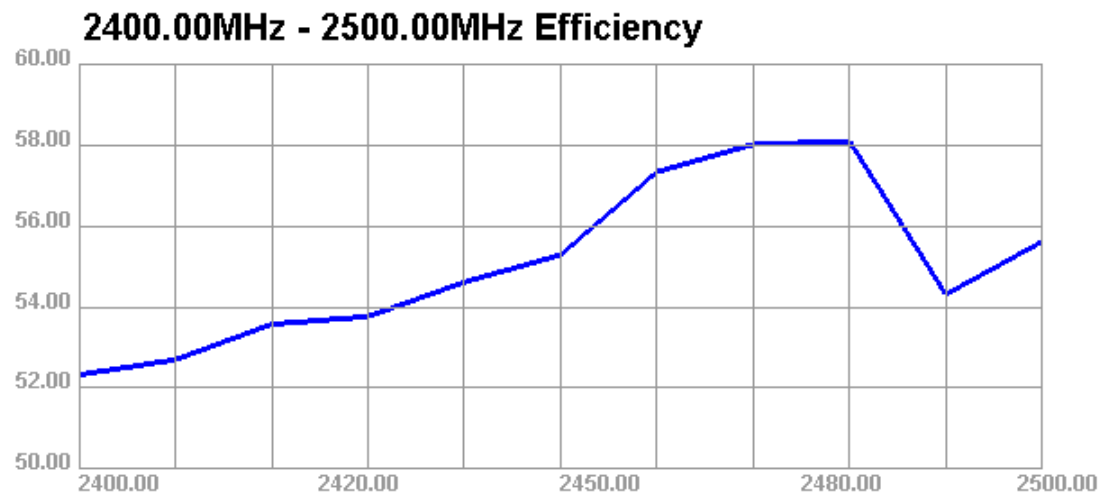
4. Test report

3.1. Return loss/VSWR



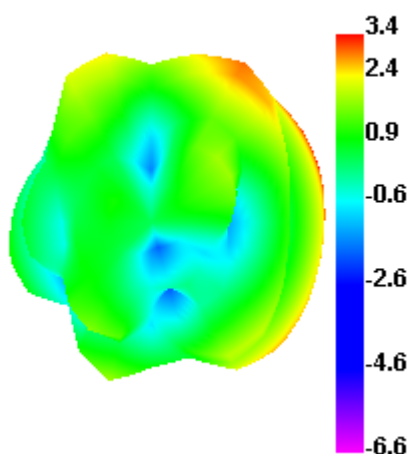
3.2. Gain. Efficiency. 2D、3DRaditation Pattern

Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	52.33	-2.81	3.44
2410	52.7	-2.78	3.39
2420	53.58	-2.71	3.32
2430	53.77	-2.69	3.22
2440	54.62	-2.63	3.25
2450	55.29	-2.57	3.29
2460	57.34	-2.42	3.4
2470	58.01	-2.36	3.42
2480	58.1	-2.36	3.28
2490	54.31	-2.65	2.81
2500	55.62	-2.55	2.8

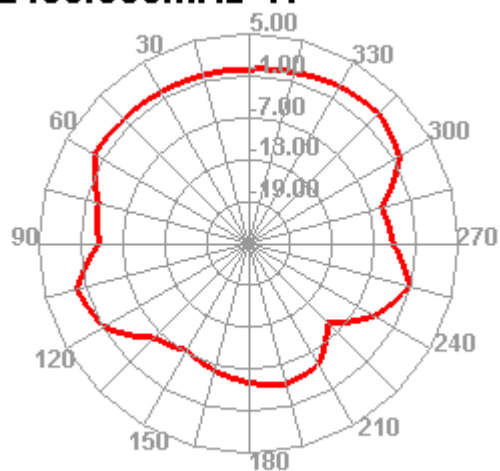


3.2.2 2D/3D field shape

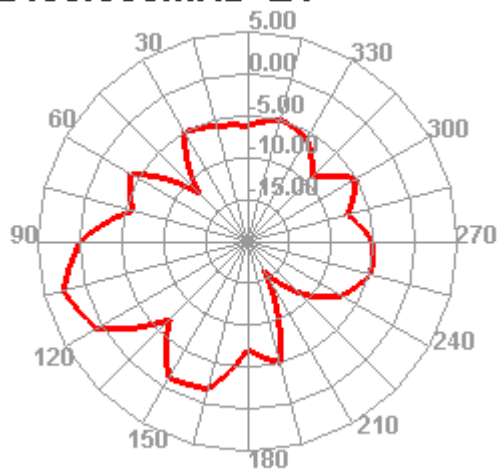
2400.000MHz



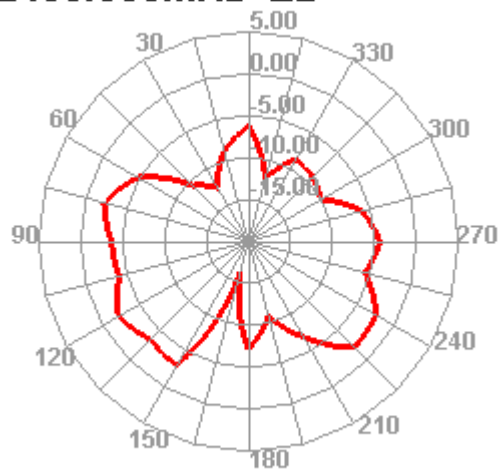
2400.000MHz H



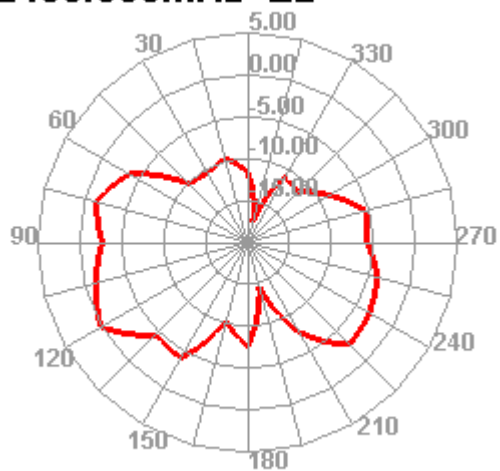
2400.000MHz E1



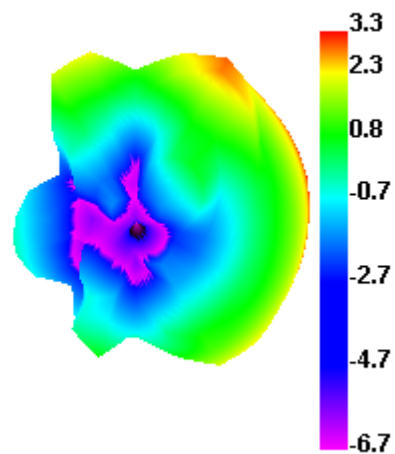
2400.000MHz E2



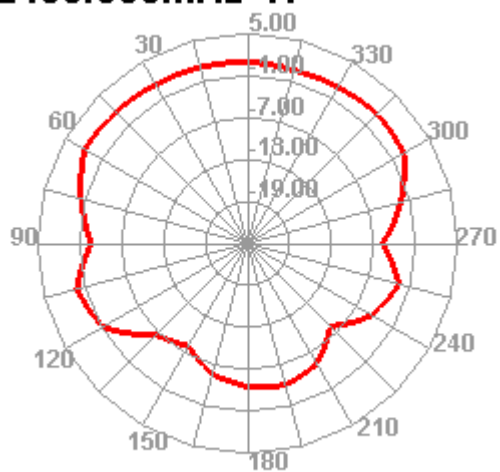
2450.000MHz E2



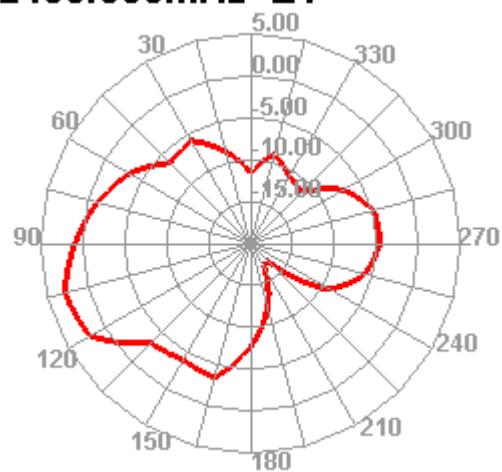
2450.000MHz



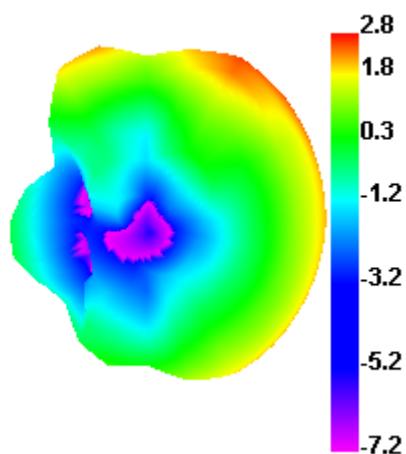
2450.000MHz H



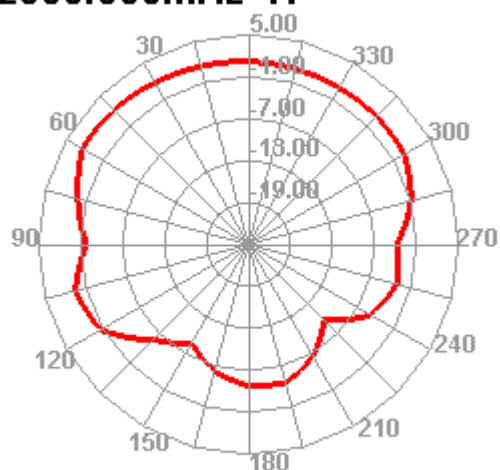
2450.000MHz E1



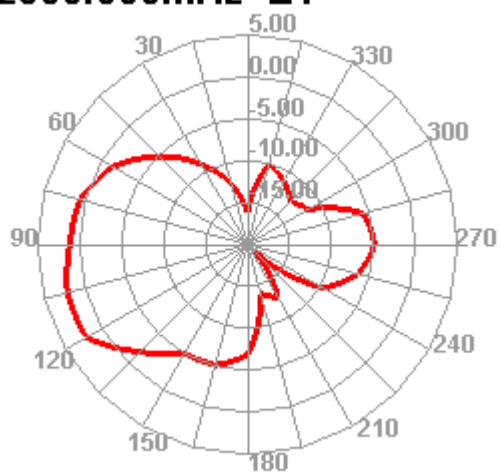
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

