Dongguan Yirui Electronic Technology Co. , Ltd.

SPECIFICATION FOR APPROVAL

CUSTOMER NAME:

PRODUCT NAME: 2.4G PCB Ceramic antenna (21B00174A)

CUSTOMER P/N:

YR P/N: 21B00174A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	LIU	
APPROVED BY:	EVINE	
DATE:	2023/10/23	

Factory address ;

No. 13 Fengda Road, Fengda Industrial Park, Tianxin Community, Tangxia Town, Dongguan City

Contents

ltem ***Description***

1.---------- Main technical parameters of products

2.---------- Structure diagram

3.---------- Test environment

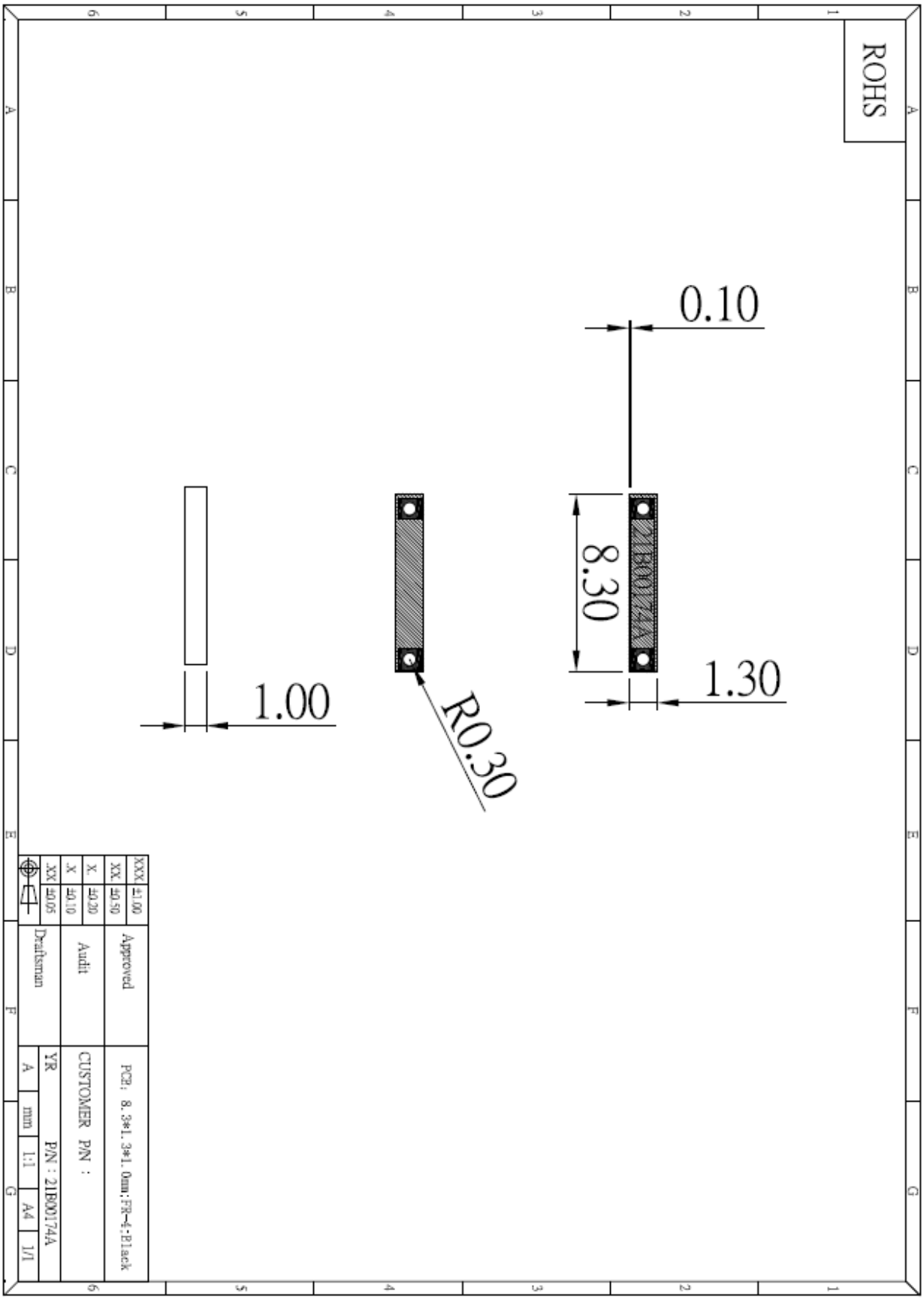
4. ---------- ---- Test report

5. ---------- ------ Packaging

1. Main technical parameters of products

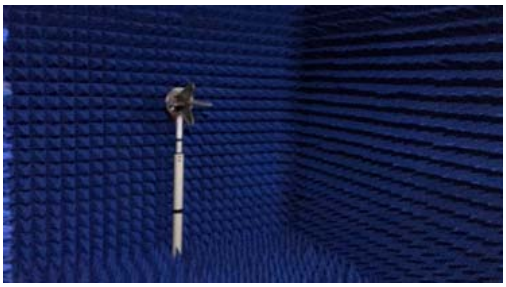
Main technical specifications	
Frequency Range (MHZ)	2400~2500
Impedance(Ω)	50±10
Peak Gain(dBi)	3.8
VSWR	⩽1. 92
Admitted Power	1W
Polarization	Line,Vertical
Connector Type	SMT
Physical Properties	
Antenna Base	PCB+ Ceramics
Operating Temp	-20℃~+70℃
Storage Temp	-20℃~+70℃

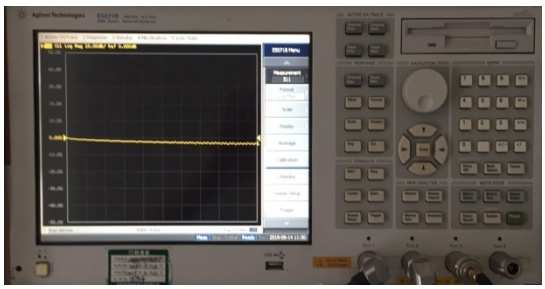
2. Structure diagram:



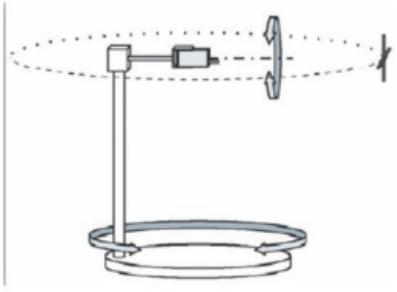
3. Test environment

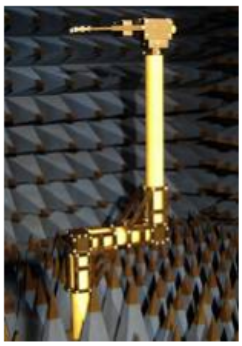
/	Test items	Equipment		
S11	1. Return loss 2.VSWR	Equipment	Model No	Manufacturers
		Analyzers	E5071B	Agilent
		Coaxial Cabie	RG316	YiRui
Testing	1. 2D、3DRaditation Pattern 2. Antenna gain 3. Antenna efficiency	OTA	ETS 5*3*3(3D)	Guang Ping
		Analyzers	E5071B	Agilent
		PC Console	Win 7	ASUS
		OTA	ETS;Far Field probe	Guang Ping
		3D turntable	ϕ1*1*1.5(3D)	Guang Ping



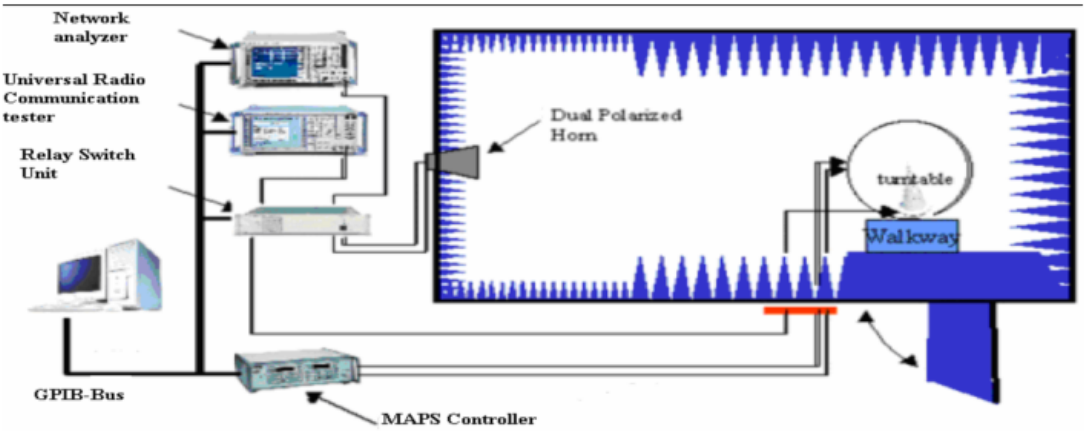


ETS OTA Test principle



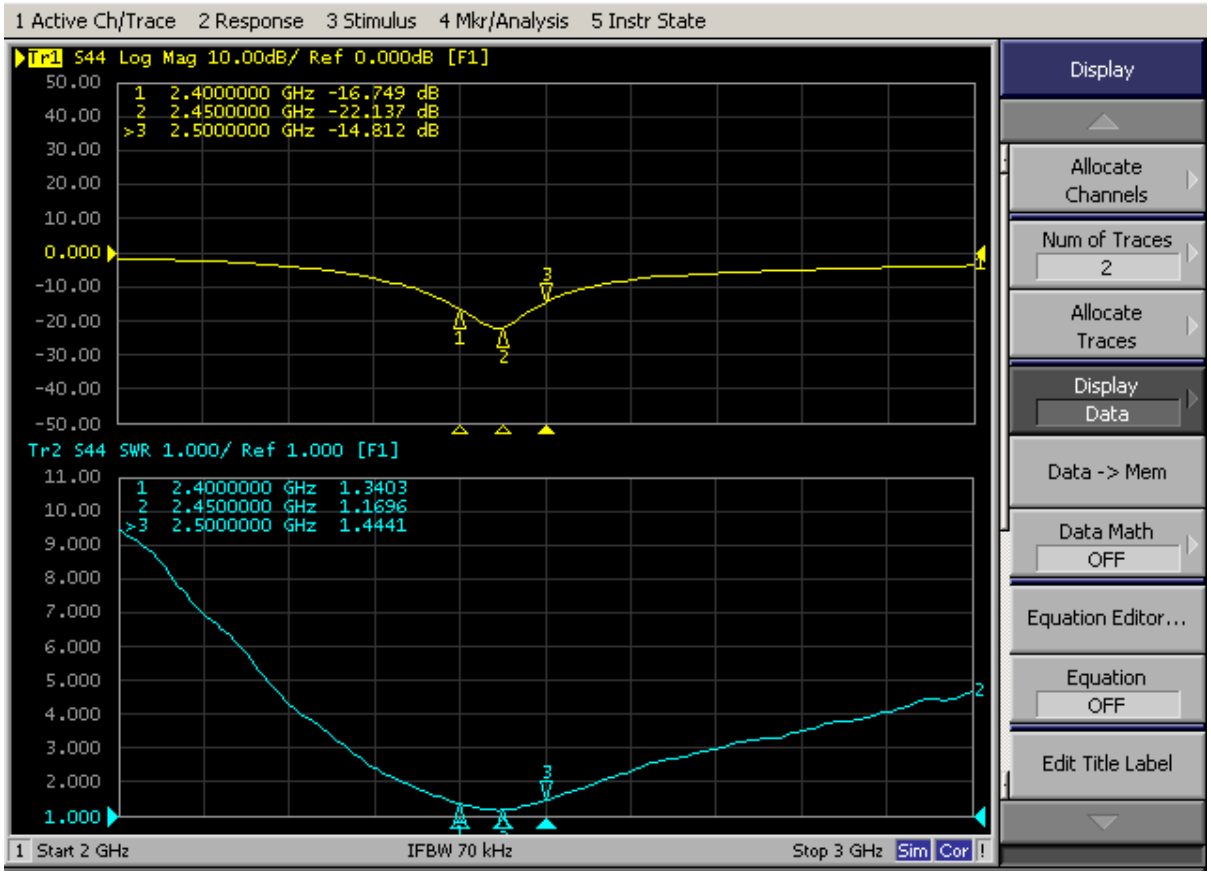


3D turntable



4. Test report

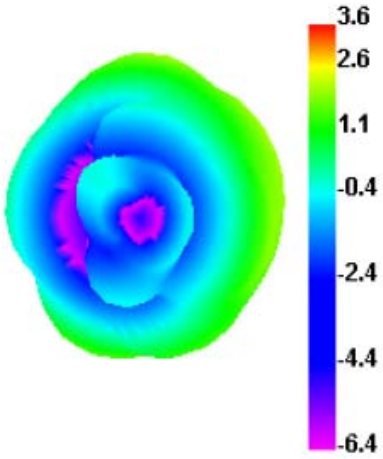
3.1. Return loss/VSWR



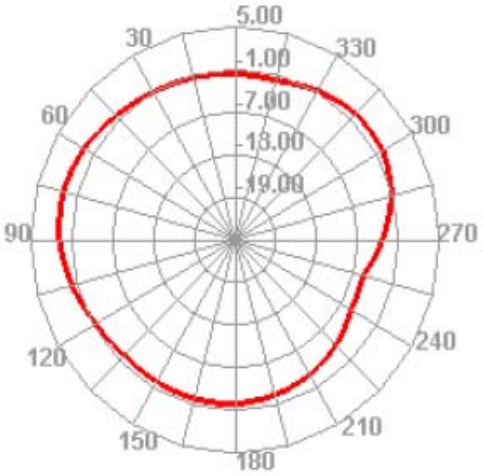
3.2. Gain. Efficiency. 2D、3DRaditation Pattern

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	63.9	-1.95	3.62
2410	59.35	-2.27	3.37
2420	59.22	-2.28	3.5
2430	55.96	-2.52	3.27
2440	60.05	-2.21	3.5
2450	63.4	-1.98	3.65
2460	65.44	-1.84	3.7
2470	67.18	-1.73	3.73
2480	70.11	-1.54	3.8
2490	67.68	-1.7	3.56
2500	59.99	-2.22	2.94

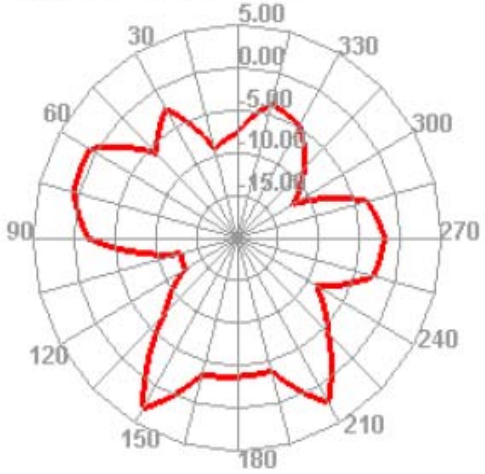
2400.000MHz



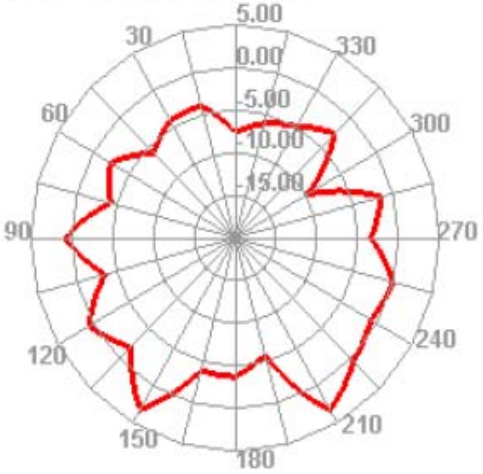
2400.000MHz H



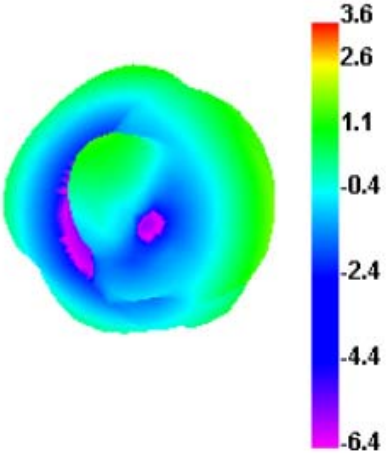
2400.000MHz E1



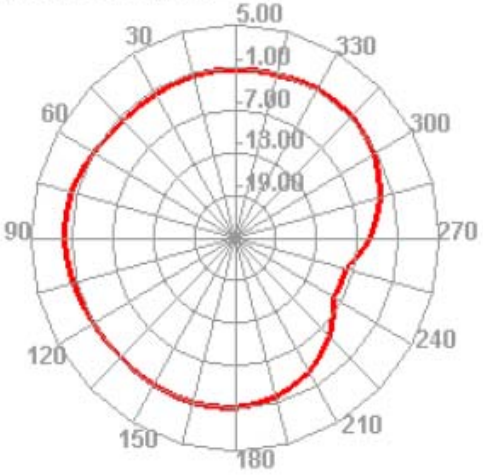
2400.000MHz E2



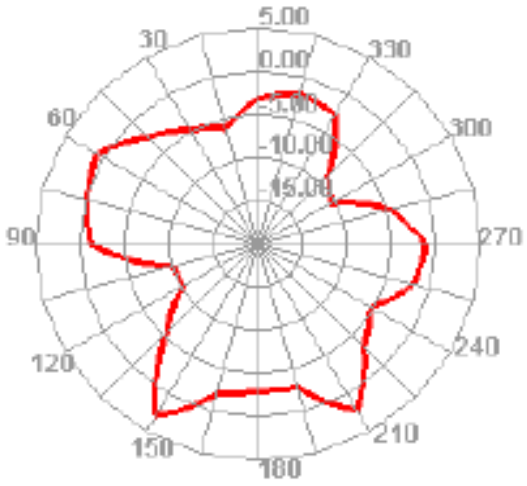
2450.000MHz



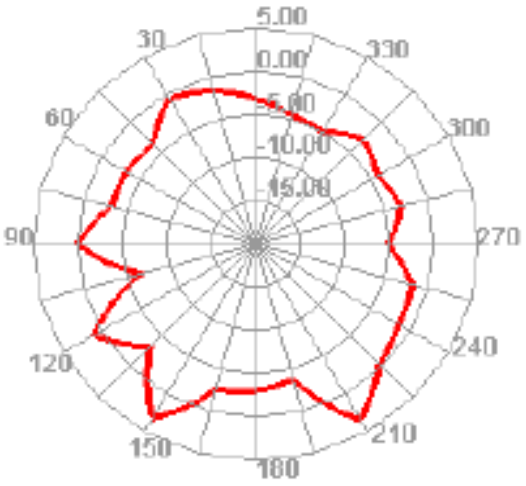
2450.000MHz H



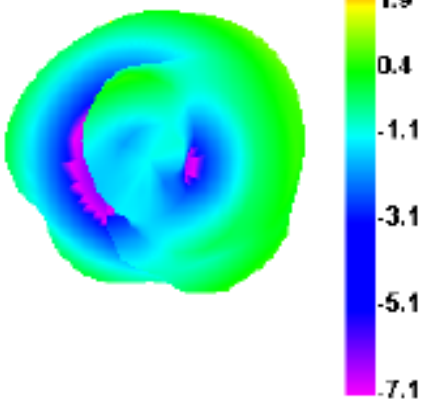
2450.000MHz E1



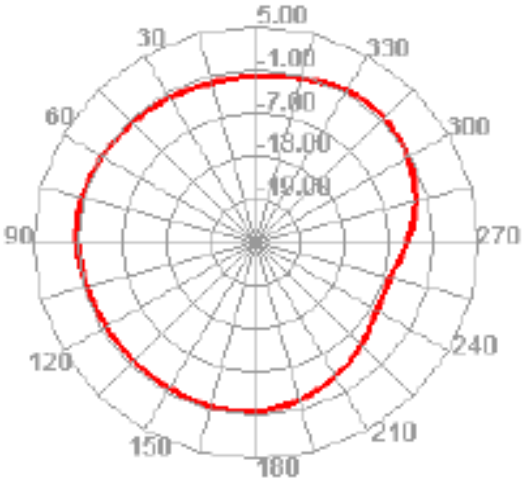
2450.000MHz E2



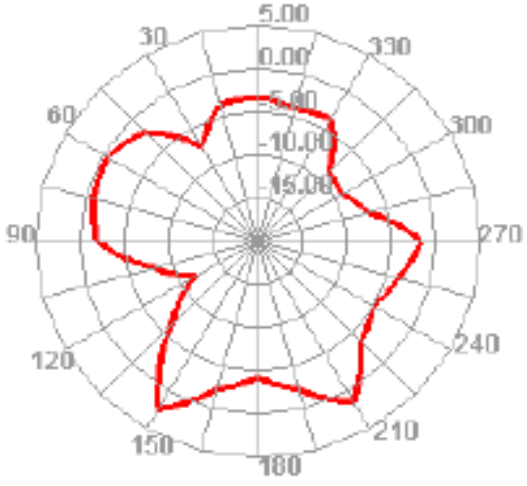
2500.000MHz



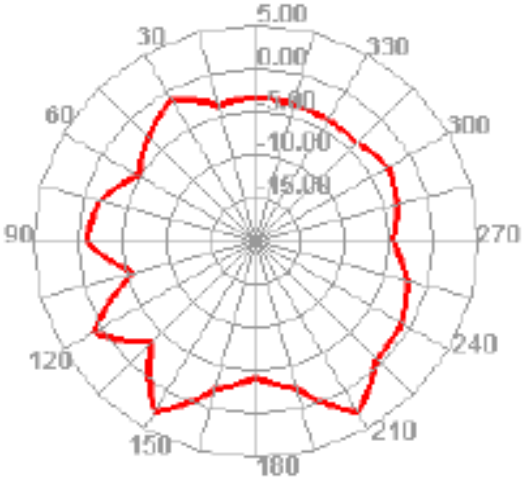
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



5. Packaging