



Shen zhen Golden-Resource Electronic Co.,Ltd.

SPECIFICATION FOR APPROVAL

Date 2023/01/04

File No 23010401

Revision 1.0

CUSTOMER: SMART ELECTRONIC INDUSTRIAL CO.,LTD.

CUSTOMER NO: PGI303FC

PART NAME: 2.4G AntennaAntenna LL=90mm90mm MMHFHF

SUPPLIER NO: YJW01.029.085.301A

Date:

Q"TY: PCS

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
ChenGuoqiang	XieLi	ChenXingcheng

YJ-RD-F04-A

add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen



Spec Item

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9	N/A	N/A	N/A
10	N/A	N/A	N/A
11	N/A	N/A	N/A
12	-	-	-
13	-	-	-

RoHS
Compatible

CUSTOMER
PART NO

REV.

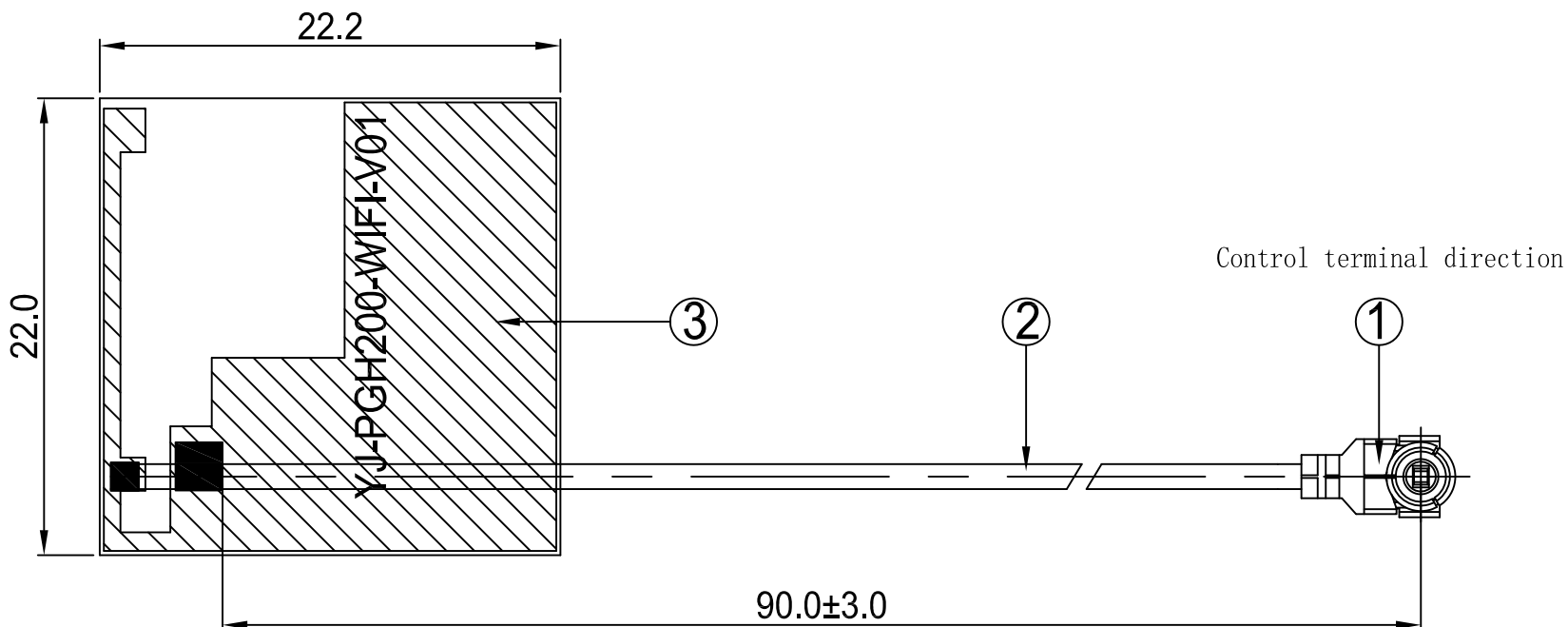


DESCRIPTION

Initial Issue

DATE

2021-11-24



Shen zhen Golden-Resource Electronic Co.,Ltd.

PART NAME: Antenna L=90mm MHF

PART NO.: YJW01.029.085.301A

DATE: 2021-11-24

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

ChenGuoqiang

XieLi

LvSenHua

UNITS: mm

X.X ±0.50

SCALE: 1/1

X.XX±0.15

REVISION: A

X° ±3°

3	FPC	22.0*22.2MM	FPC	FPC11255A,P01	1
2	Coaxial Cable	O.D. 0.81 Black	O.D. 0.81	COA100XXA,P01	1
1	Mini Connector	Au Plated Generation 1	Cu	TER10001A,P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



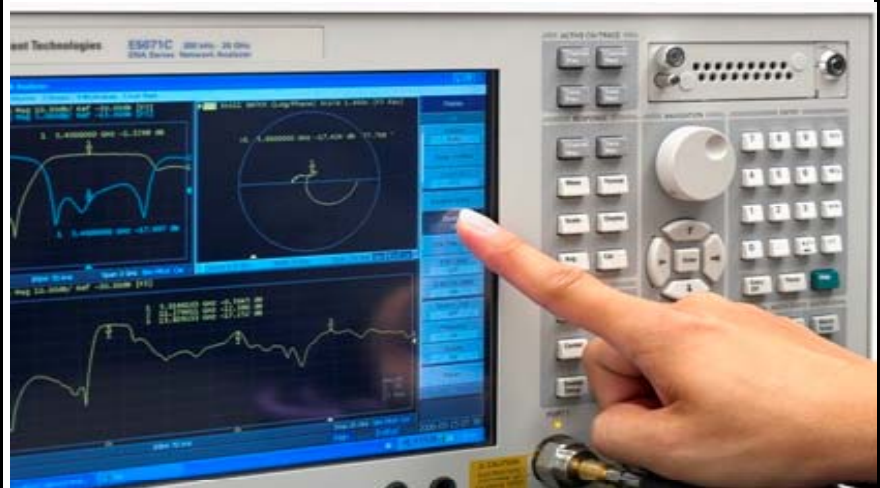
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.5 Max
Gain	2.3 dBi
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	IPEX
Cable Type	O.D.0.81mm
Cable Length	90mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

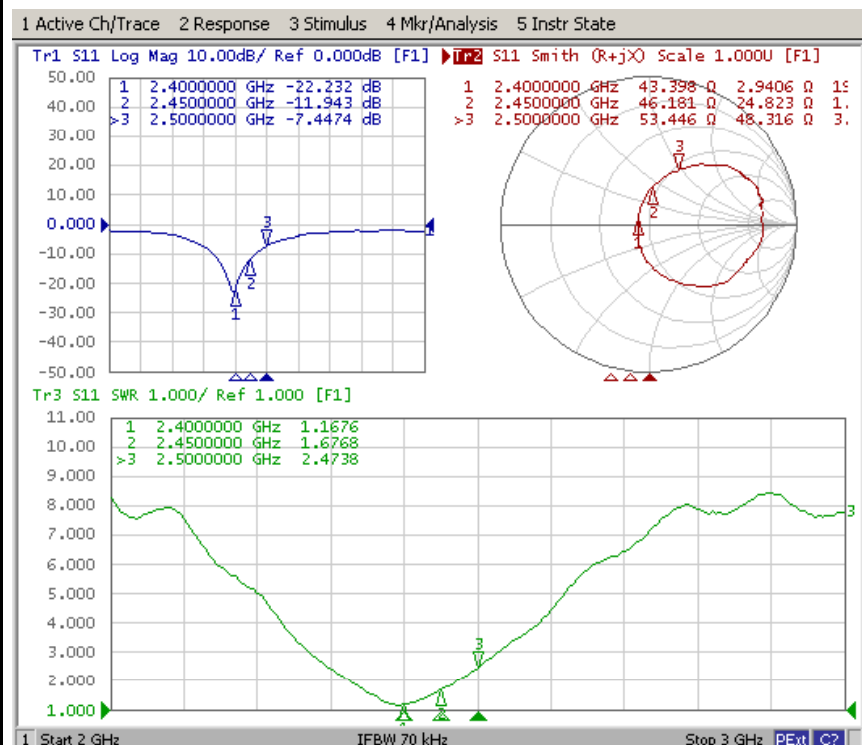


Antenna Performance Test

**Agilent
E5071B**



**S
Parameter
Test //
2.4G
Antenna**





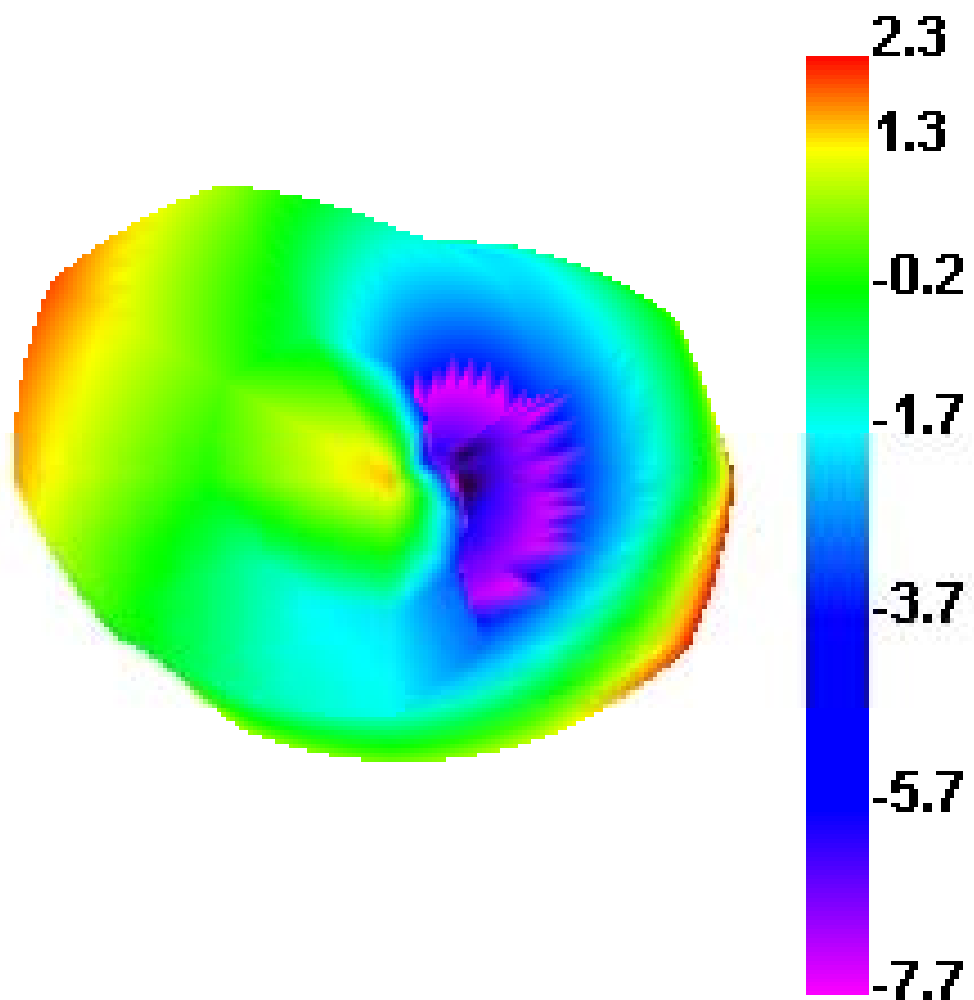
Passive Test For 2.4G Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	46.0	-3.4	2.3
2410	47.0	-3.3	2.3
2420	47.4	-3.2	2.2
2430	49.2	-3.1	1.9
2440	49.3	-3.1	1.7
2450	49.6	-3.0	1.8
2460	49.6	-3.0	1.7
2470	47.9	-3.2	1.6
2480	47.5	-3.2	1.5
2490	47.0	-3.3	1.3
2500	46.6	-3.3	0.9

add: 17A-03A, Block B, Nanxian Commercial Plaza, Meilong Road, Longhua New District, Shenzhen



Radiation Pattern For 2.4G Antenna

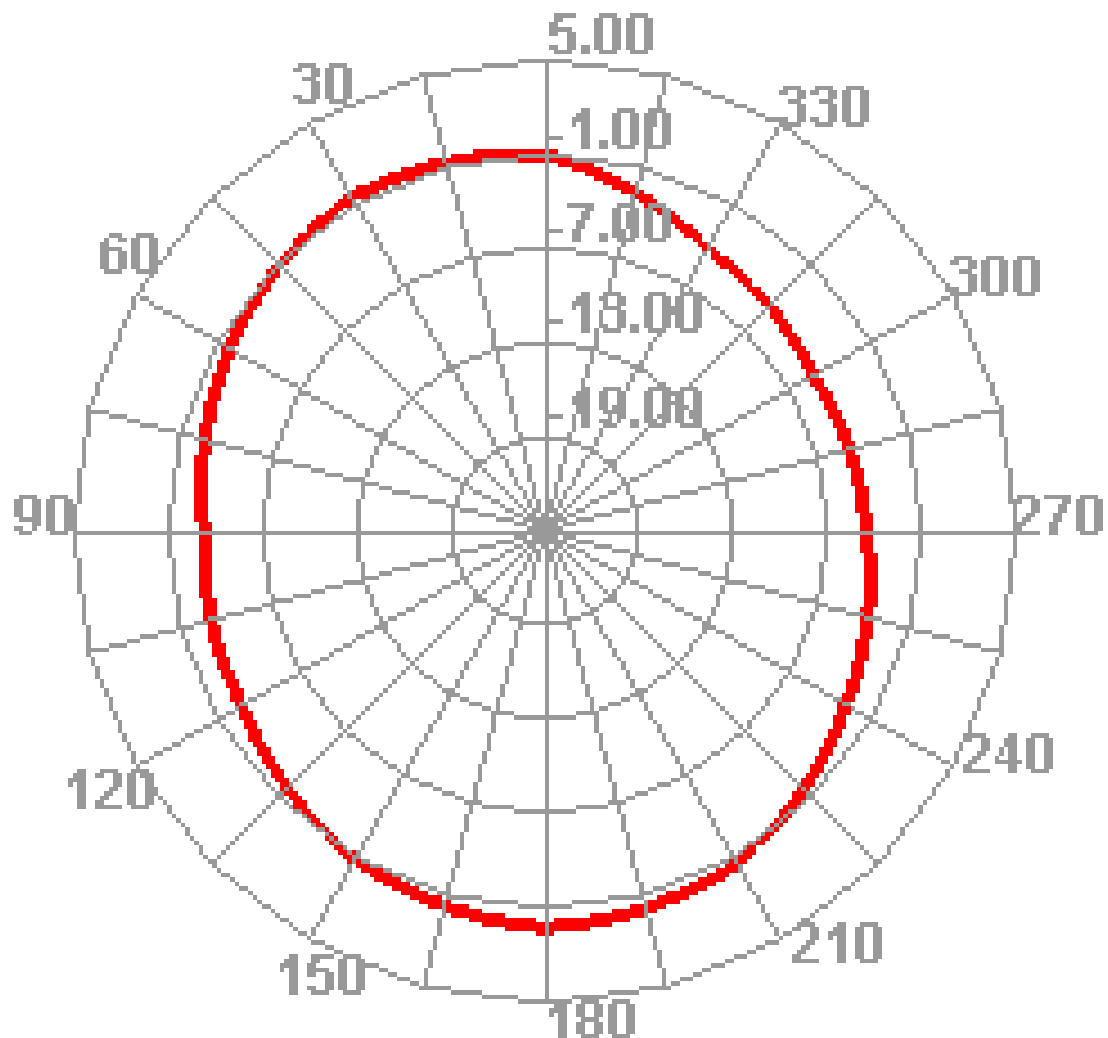
2400.000MHz





Radiation Pattern For 2.4G Antenna

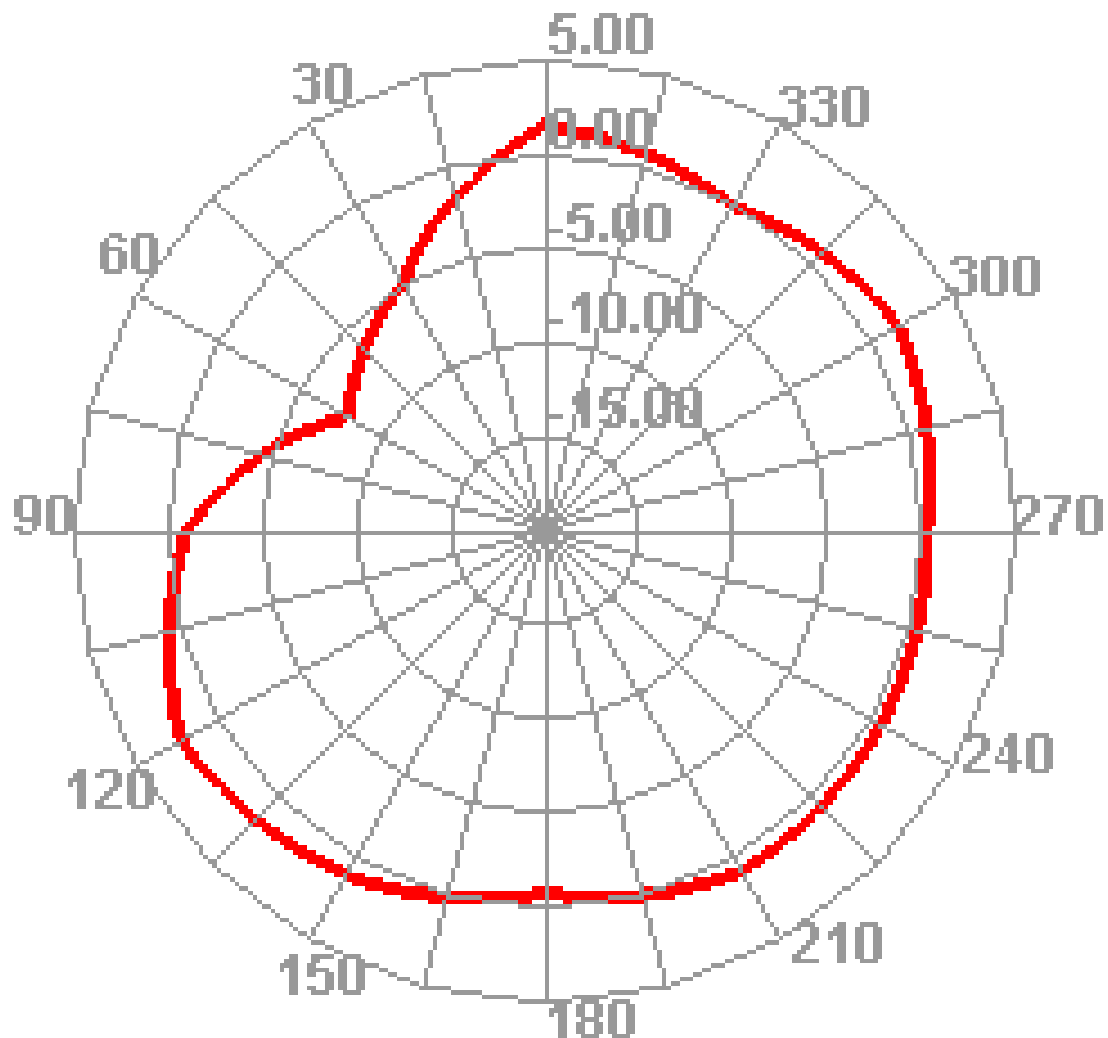
2400.000MHz H





Radiation Pattern For 2.4G Antenna

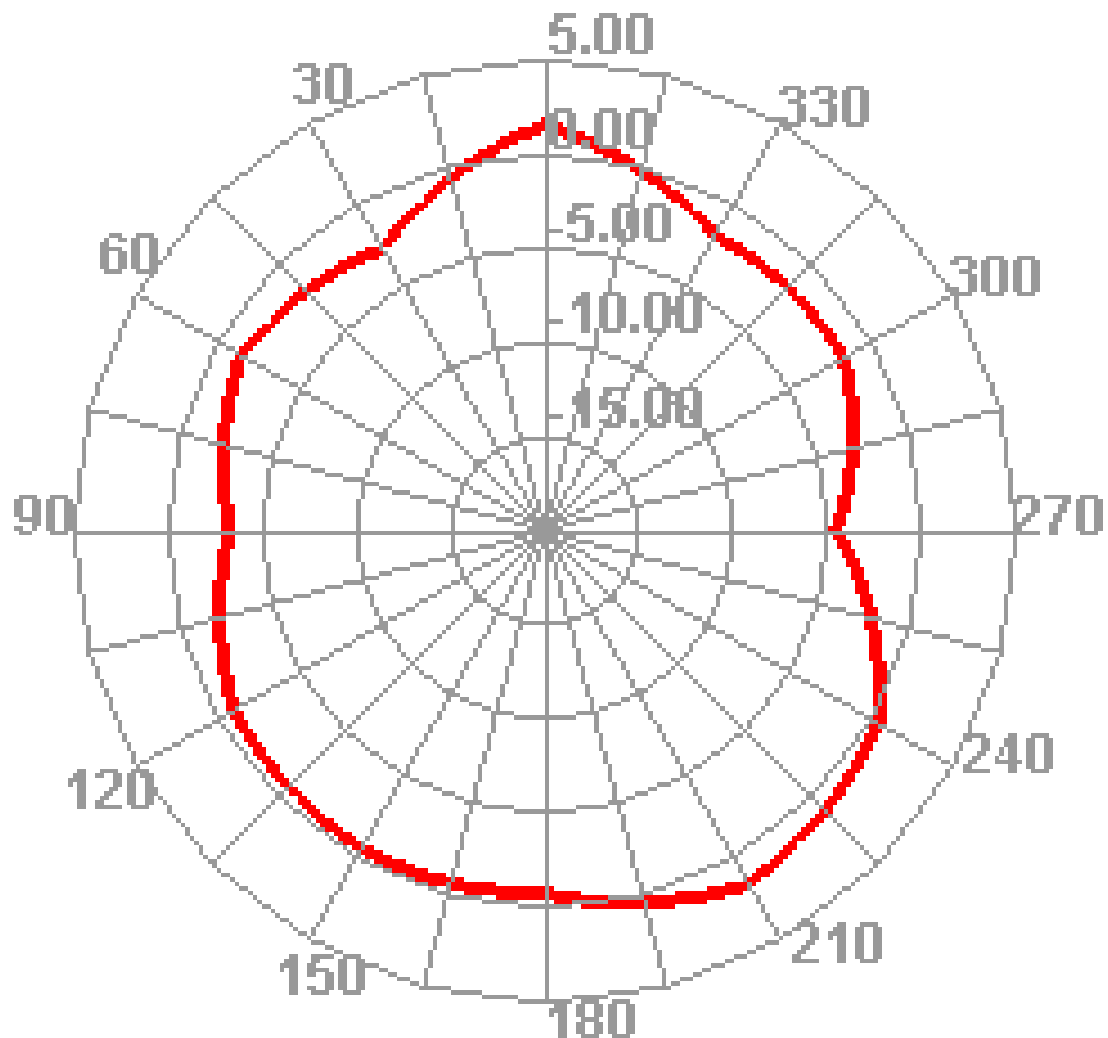
2400.000MHz E1





Radiation Pattern For 2.4G Antenna

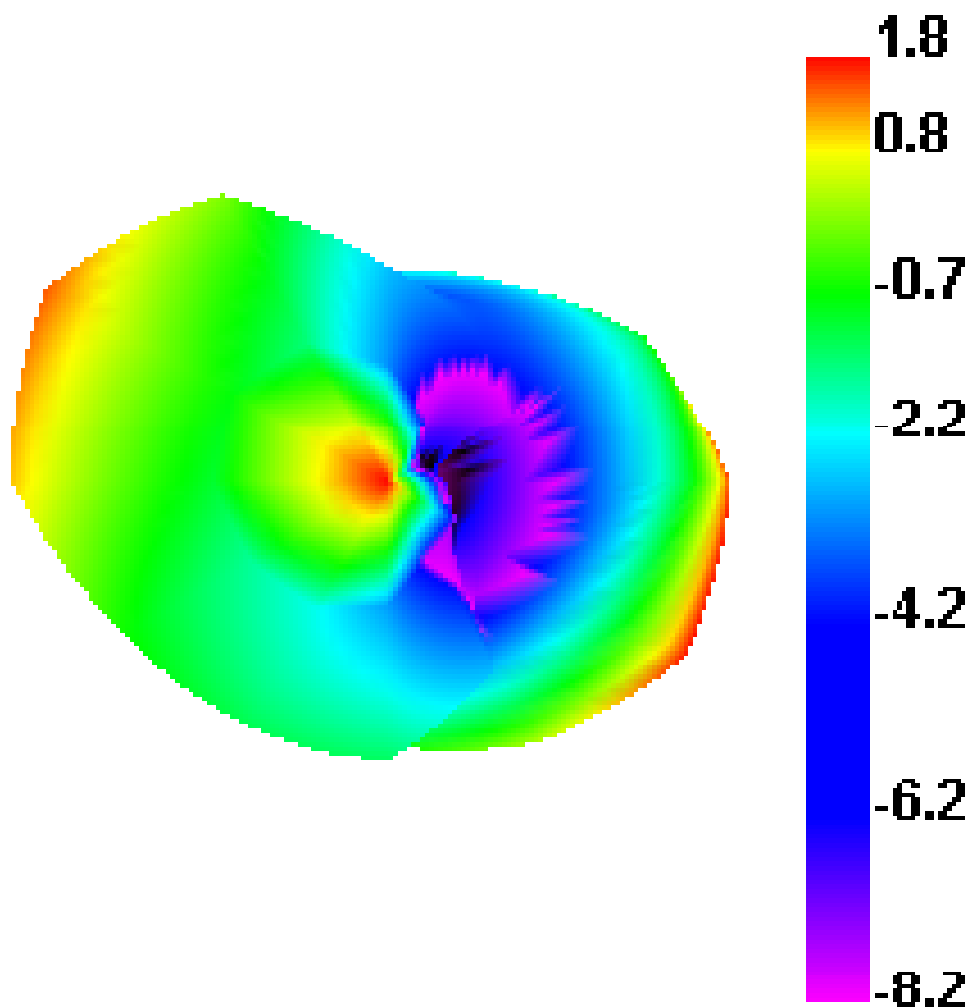
2400.000MHz E2





Radiation Pattern For 2.4G Antenna

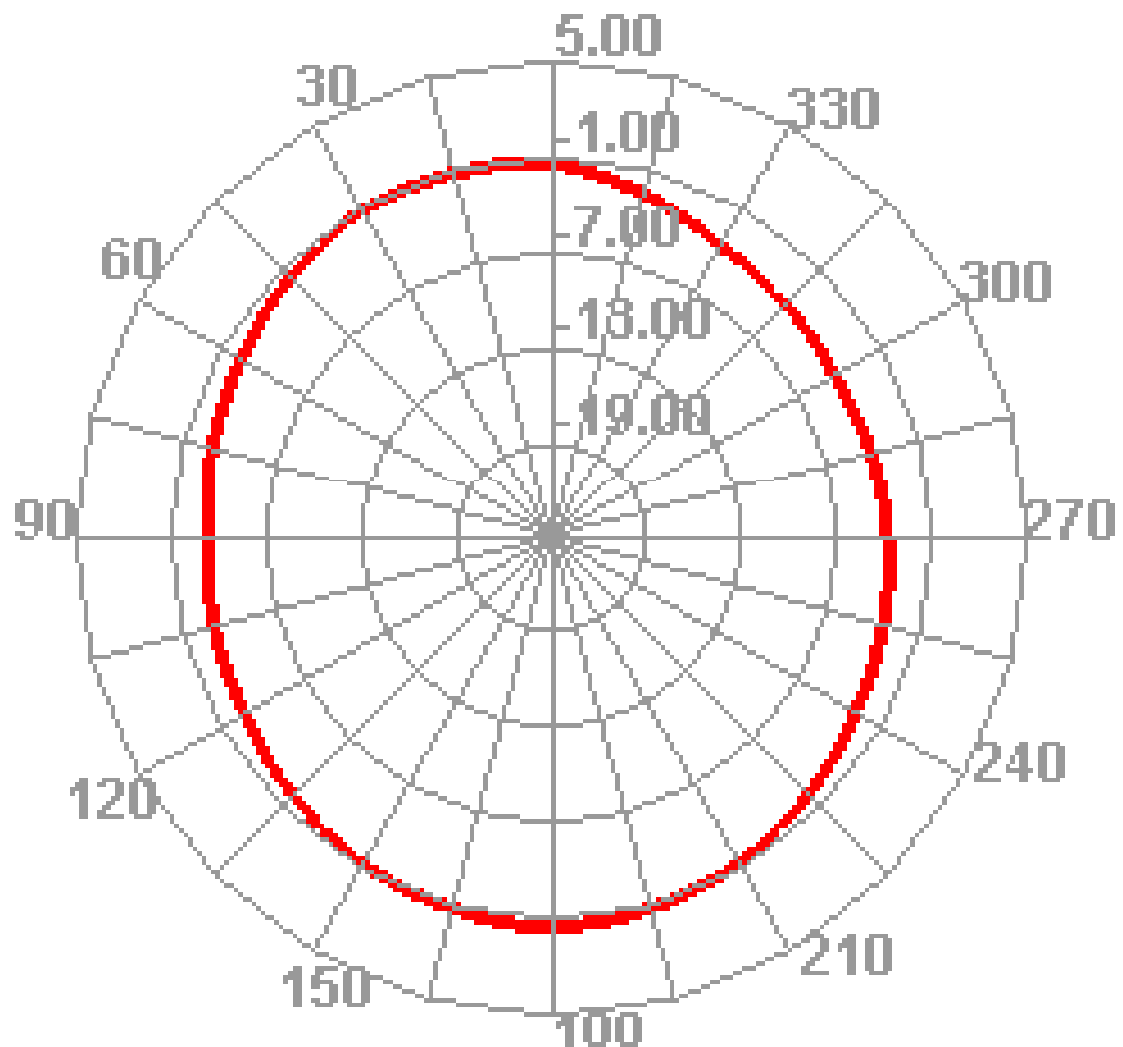
2450.000MHz





Radiation Pattern For 2.4G Antenna

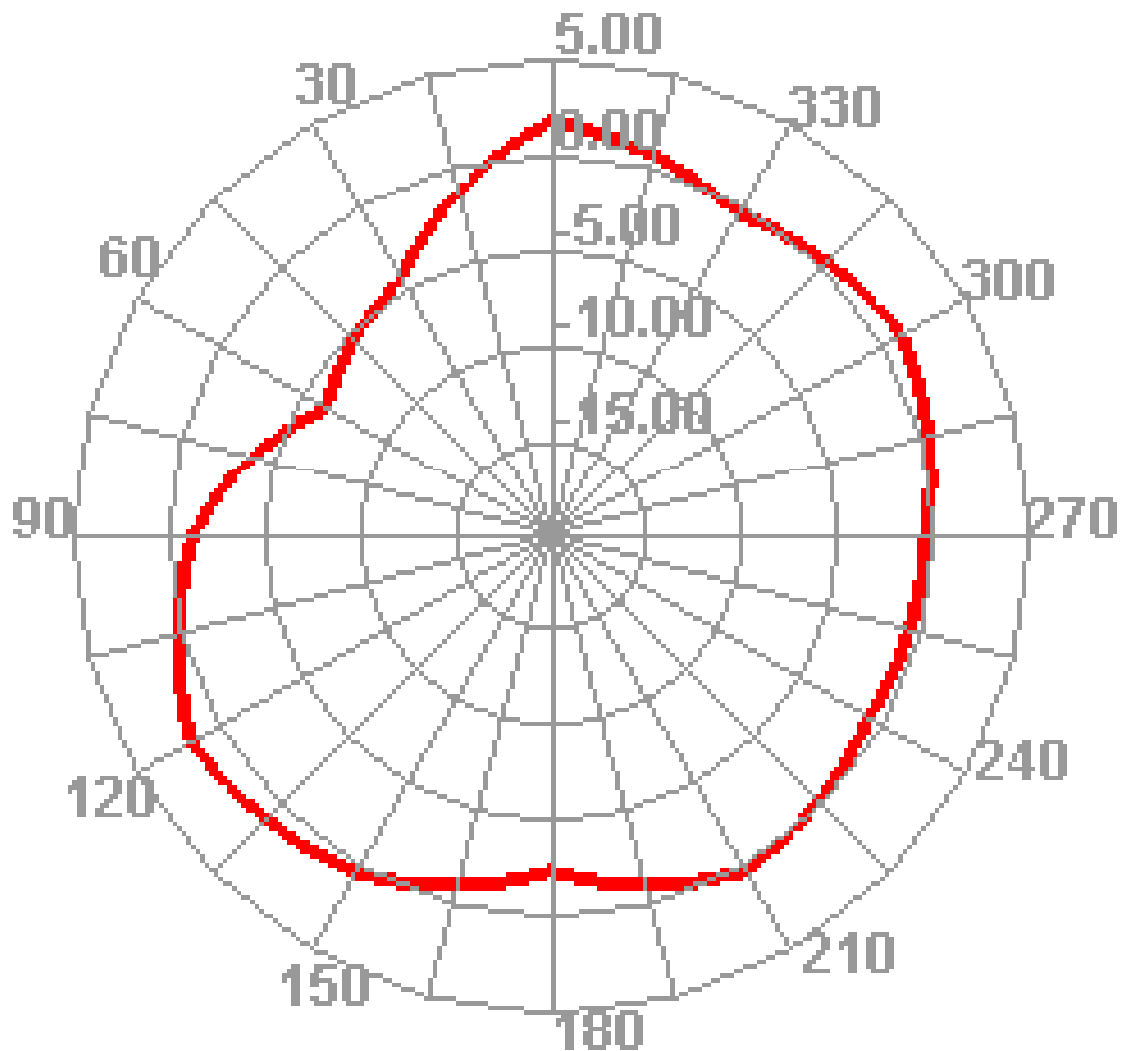
2450.000MHz H





Radiation Pattern For 2.4G Antenna

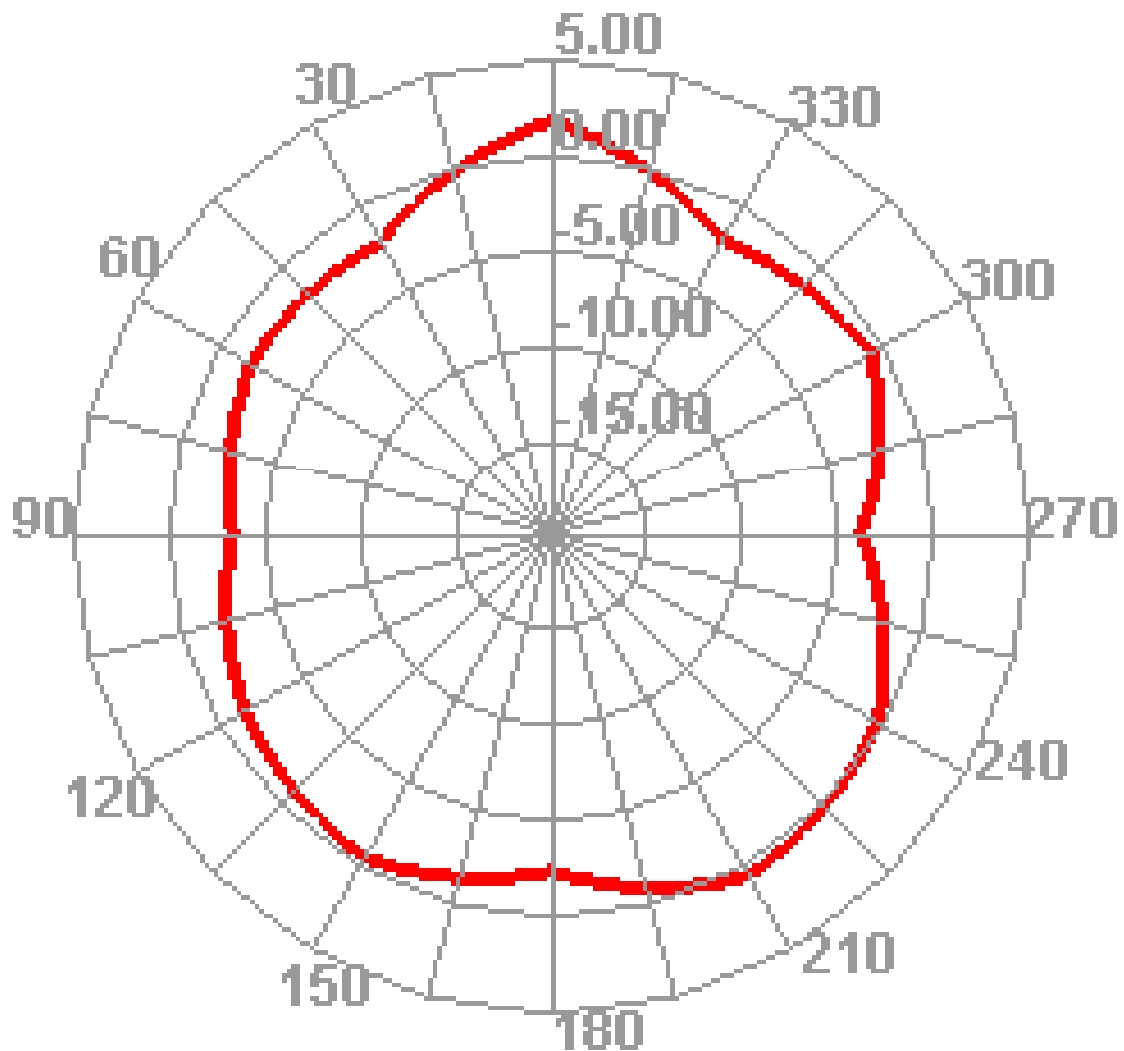
2450.000MHz E1





Radiation Pattern For 2.4G Antenna

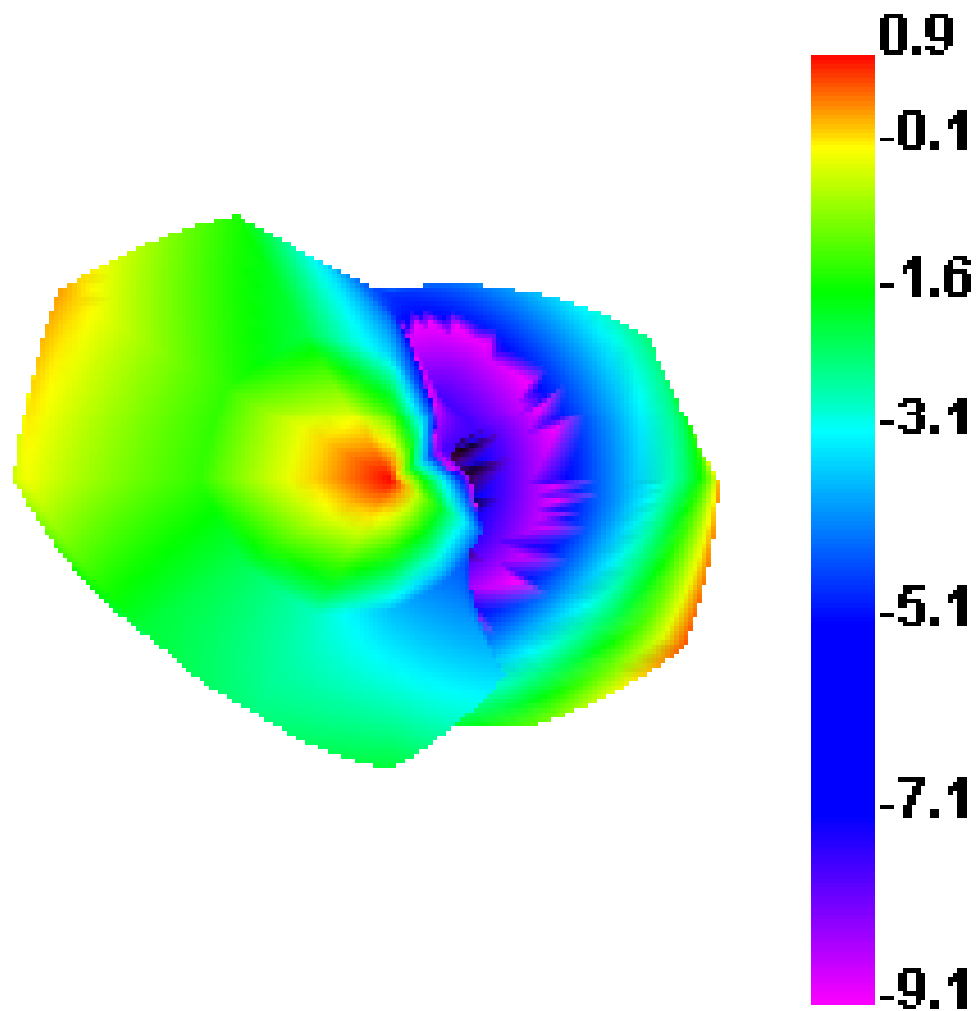
2450.000MHz E2





Radiation Pattern For 2.4G Antenna

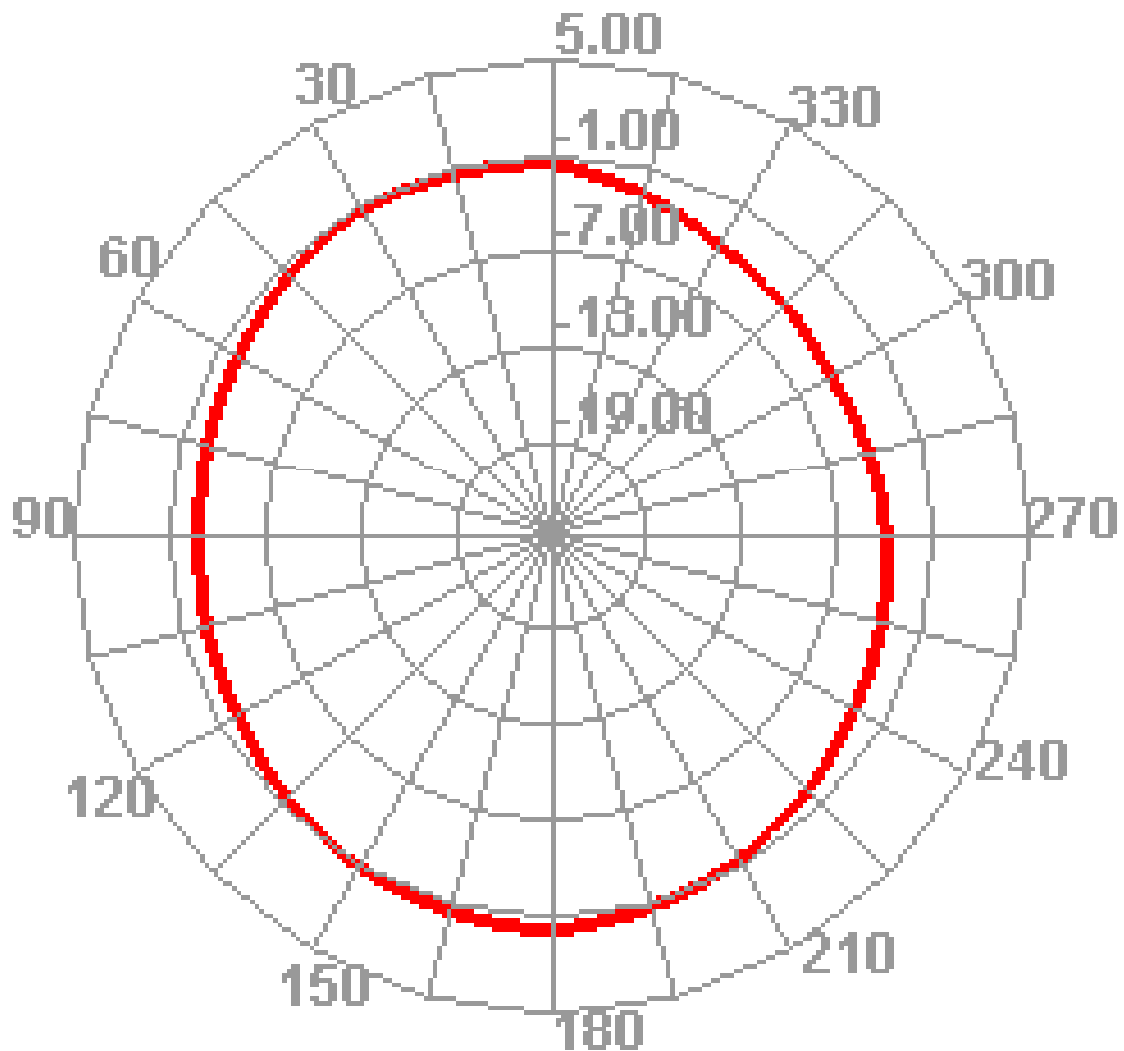
2500.000MHz





Radiation Pattern For 2.4G Antenna

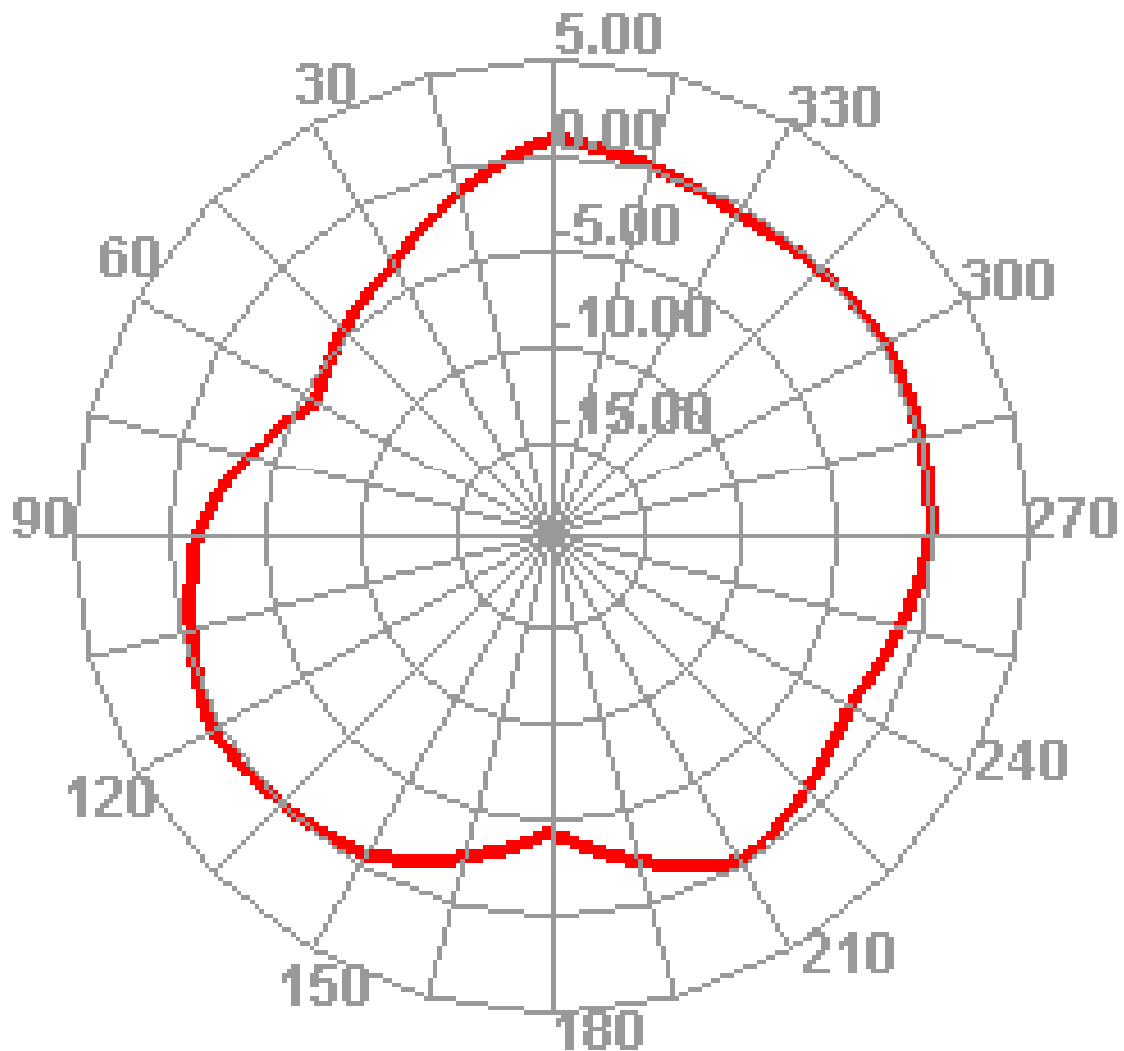
2500.000MHz H





Radiation Pattern For 2.4G Antenna

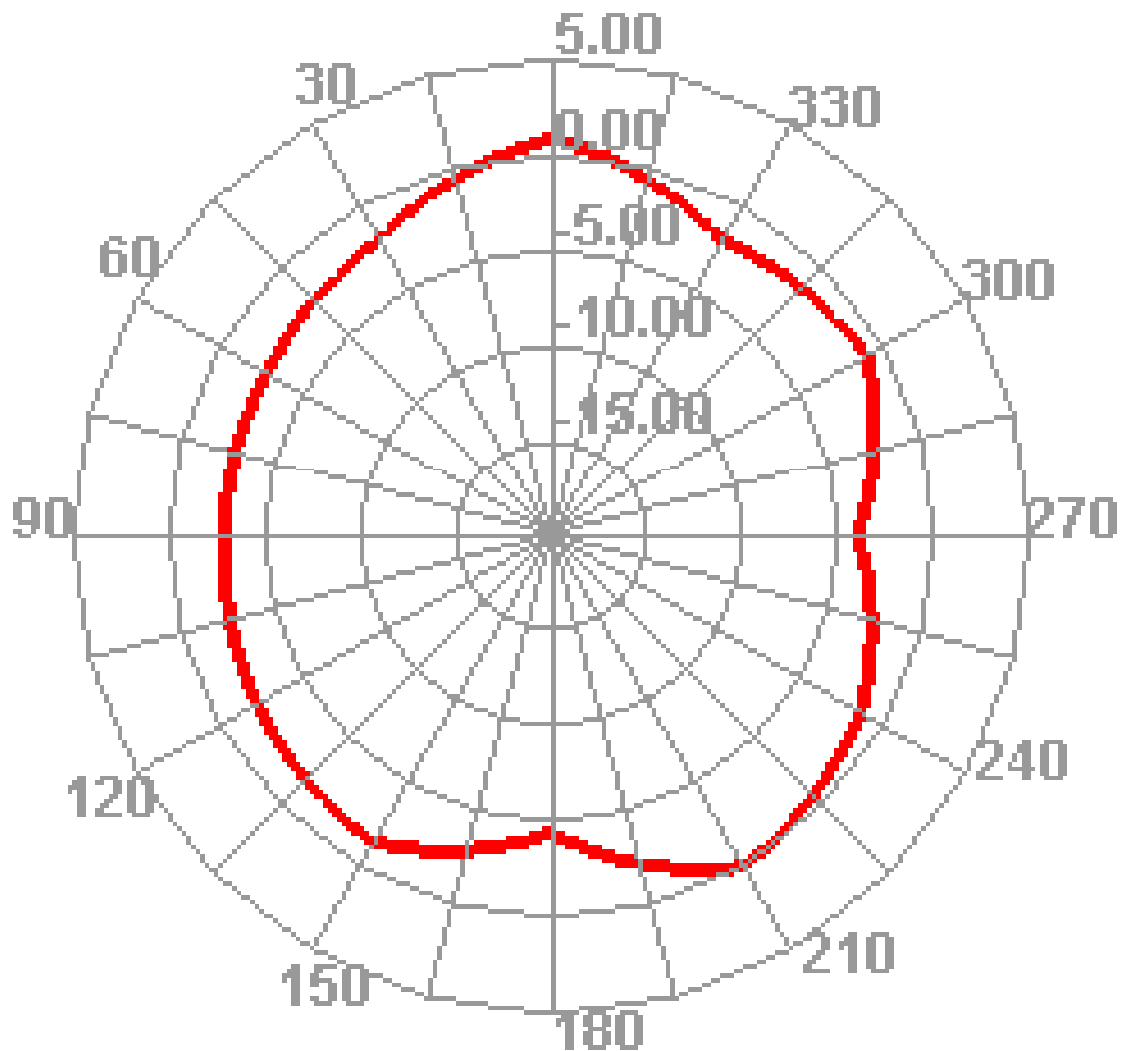
2500.000MHz E1





Radiation Pattern For 2.4G Antenna

2500.000MHz E2





Antenna 2.4G

