

东莞市涵屹电子有限公司

DONG WAN HANYI ELECTRONIC CO, LTD

产 品 规 格 书

PRODUCT SPECIFICATION SHEET

Customer: _____

Product Name: WiFi 5.8GHz PCB Antenna

Product code: HY-A108-107

Customer code: _____

Sample date: 2025-1-14

Confirm:

Approval	Quality	Engineer	Signature
David	Henry	lisa	

Customer Confirm:

Approval	Quality	Engineer	Signature
Confirm result: ☐ PASS ☐ NG ☐ Others			

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SPECIFICATION ITEM

Item	Description
1.....	SPEC
2.....	SPEC ITEM
3.....	Engineer drawing
4.....	Performance

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RF Antenna Cable Assembly

Specification

1. Electrical Properties

1.1 Frequency Range.....WiFi 5.8GHz

1.2 Impedance.....50 Ω Nominal

1.3 VSWR.....1.92:1MAX

1.4 Return Loss.....-10dB Max

1.5 Gain(peak)2.72dBi

1.6 Cable loss.....0.02dBi Max

1.7 Polarization.....Linear Vertical

1.8 Conn.....MHF

2. Physical Properties:

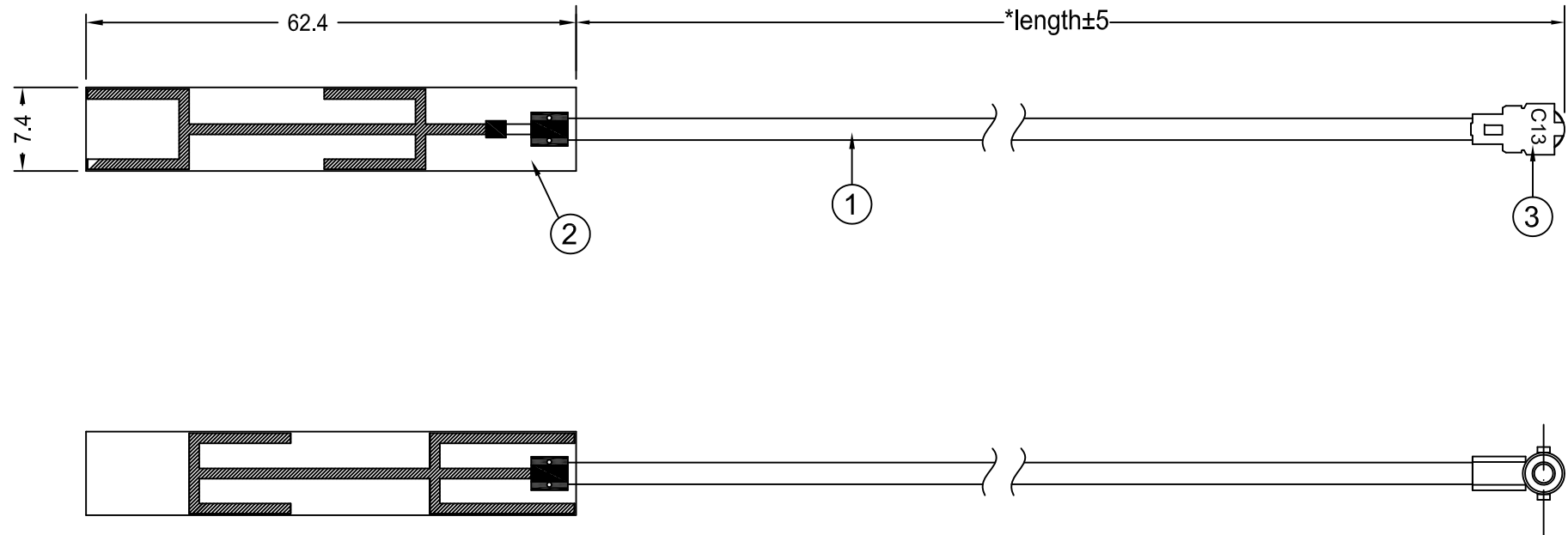
2.1 Antenna Material.....Cu

2.2 Operating Temp.....-20 $^{\circ}$ C- +65 $^{\circ}$ C

2.3 Storage Temp.....-30 $^{\circ}$ C- +75 $^{\circ}$ C

RoHS Compliant

REV	DATE	DESCRIPTION
A	14/1-2025	New Issue



Specification:
Frequency Range:WiFi 5.8GHz
Return loss:-10dB or less
Peak Gain:2dBi±0.5dBi

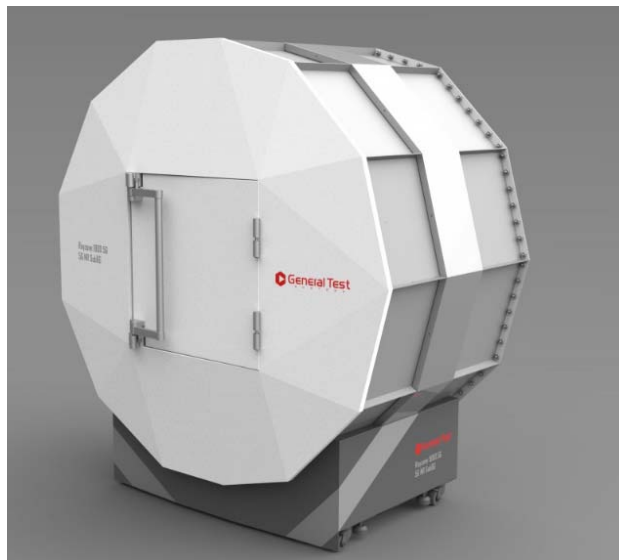
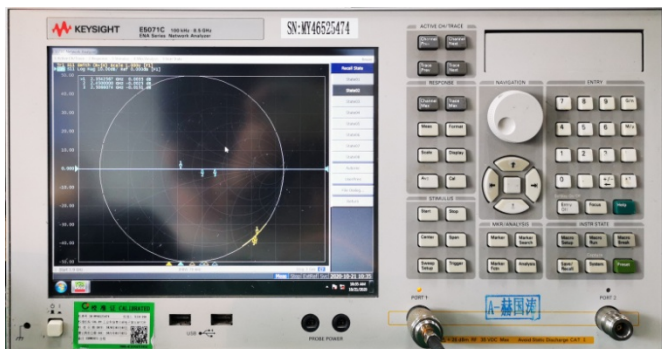
length 1	length 2	Unit
130	170	mm

				TITLE: WIFI 5.8GHz FPCB Antenna					
3	Connector	1	C13 Au Plating	PART NO.: HY-A108-107			DWG NAME: HY-T204 .dwg		
2	FPCB	1	L62.4mm/W7.4mm Au Plating	APPROVED BY	CHECKED BY	DESIDNED BY		Tolerance	
1	Coaxial Cable	1	O.D.1.13mm Gray	David 2025/1/14		Kevin 2025/1/14	UNITS: mm	X. ±1.0	
			SCALE: 1/1				X.X ±0.5		
			REVISION: A				X.XX ±0.2		
NO	PART NAME	Q'TY	DESCRIPTION						

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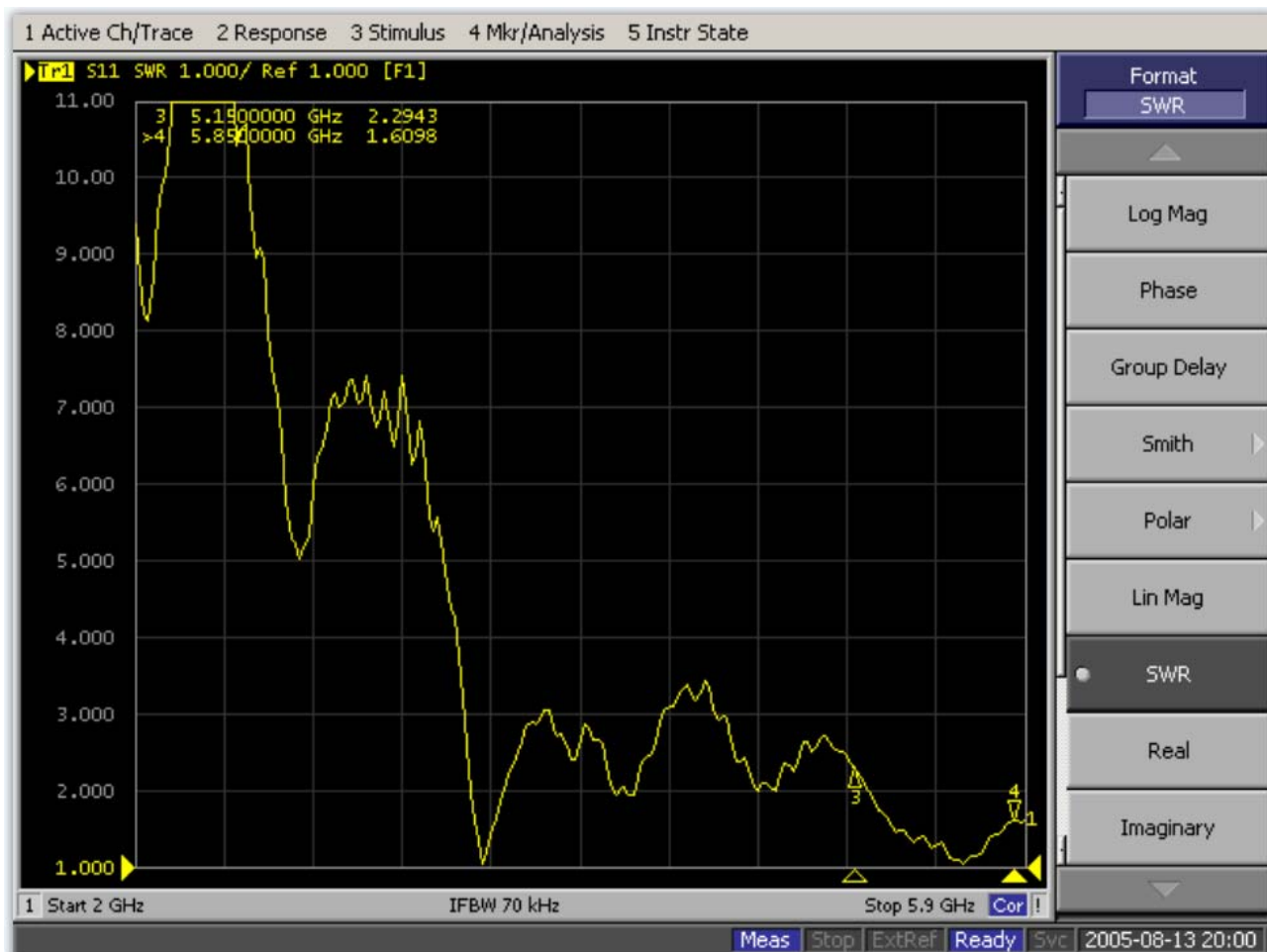
Antenna Test equipment
SPEC:5.8GHz Antenna



Product Test photo:



1.0 V.S.W.R



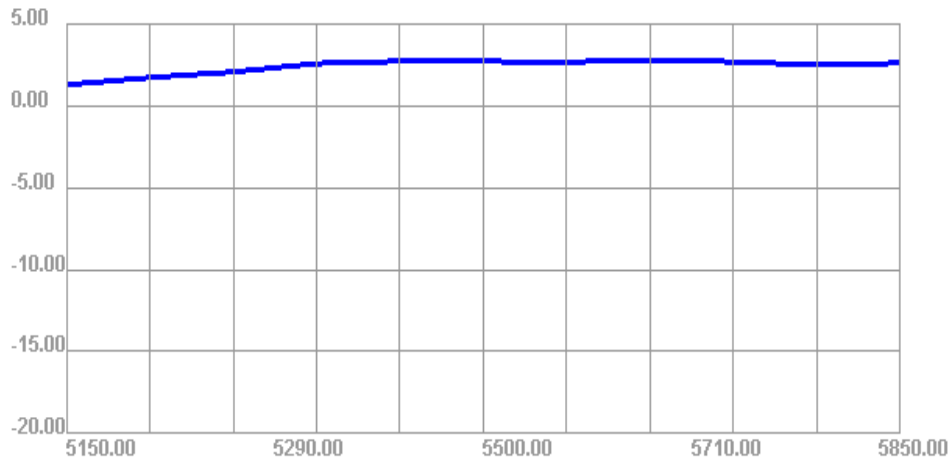
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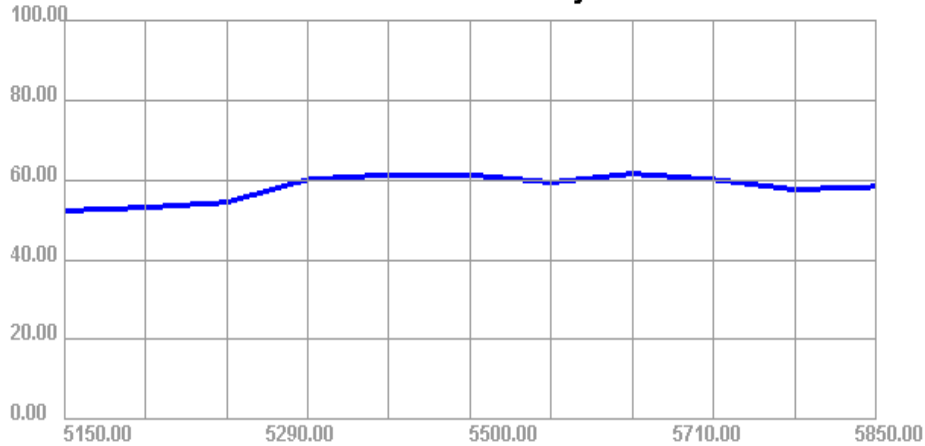
WiFi 5.8Ghz Performance data:

Passive Test For 5.8G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)
5150	52.31	-2.81	1.28	-0.87	25.362	26.948	1.28	-29.97	4.09	0
5220	53.12	-2.75	1.72	-0.43	26.685	26.43	1.72	-27.83	4.47	0
5290	54.41	-2.64	2.06	-0.09	28.276	26.136	2.06	-26.27	4.71	0
5360	60.15	-2.21	2.58	0.43	32.212	27.934	2.58	-28	4.78	0
5430	61.31	-2.12	2.72	0.57	34.009	27.302	2.72	-22.33	4.84	0
5500	61.27	-2.13	2.71	0.56	34.316	26.954	2.71	-27.21	4.83	0
5570	59.41	-2.26	2.67	0.52	33.501	25.911	2.67	-26.4	4.93	0
5640	61.56	-2.11	2.8	0.65	35.177	26.385	2.8	-28.26	4.9	0
5710	60.13	-2.21	2.69	0.54	35.356	24.775	2.69	-35.27	4.9	0
5780	57.62	-2.39	2.49	0.34	34.348	23.267	2.49	-23.78	4.89	0
5850	58.33	-2.34	2.6	0.45	35.403	22.931	2.6	-20.48	4.94	0

5150.00MHz - 5850.00MHz Gain



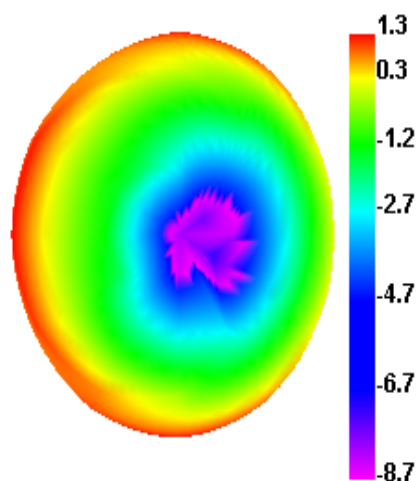
5150.00MHz - 5850.00MHz Efficiency



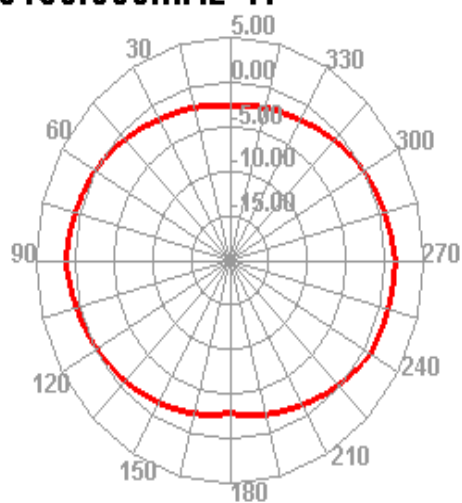
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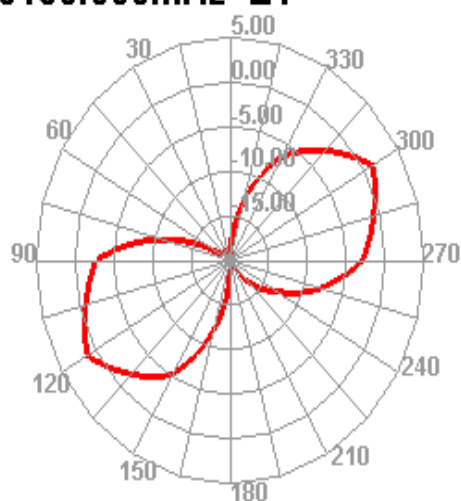
5150.000MHz



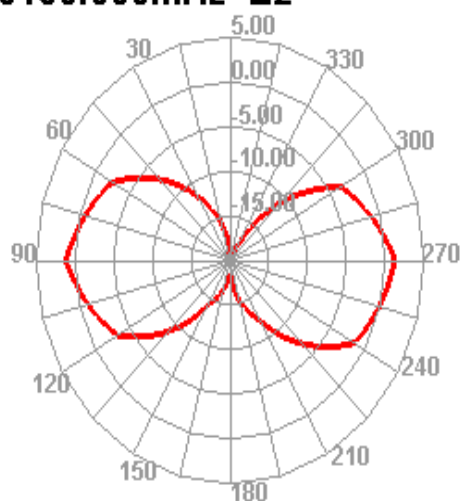
5150.000MHz H



5150.000MHz E1



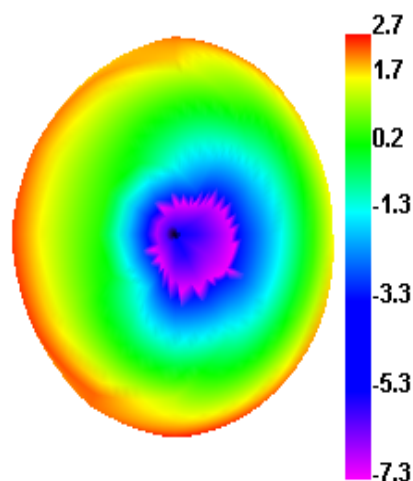
5150.000MHz E2



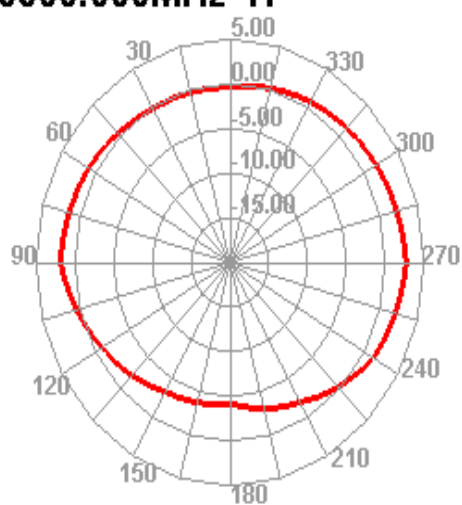
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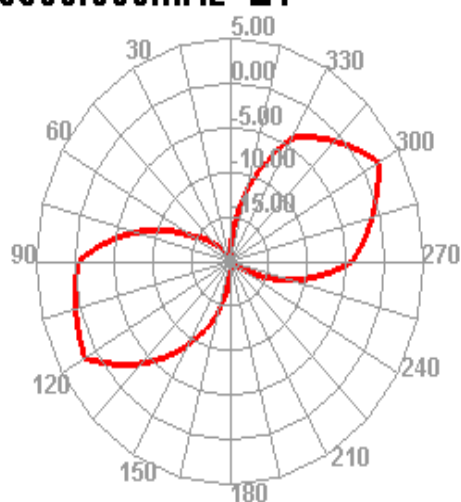
5500.000MHz



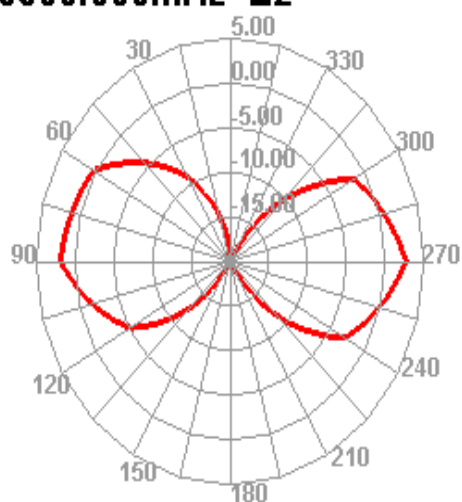
5500.000MHz H



5500.000MHz E1



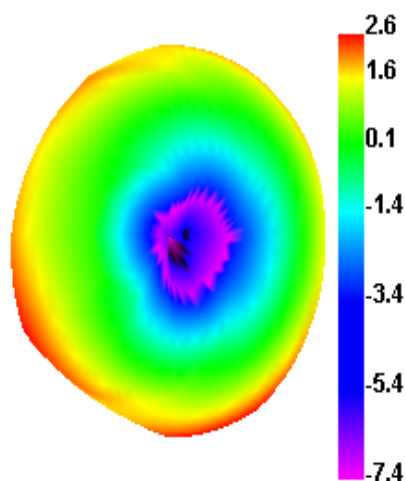
5500.000MHz E2



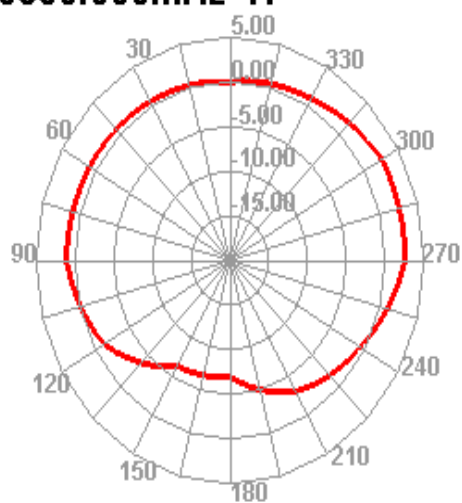
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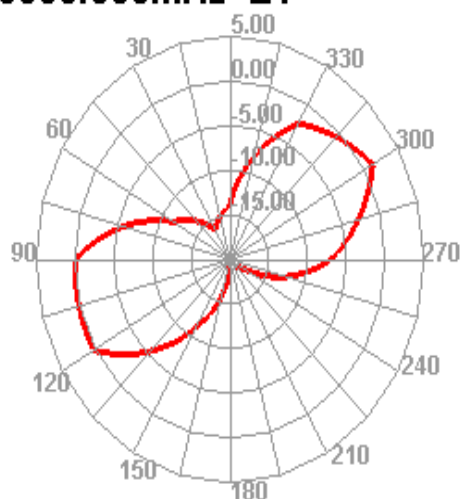
5850.000MHz



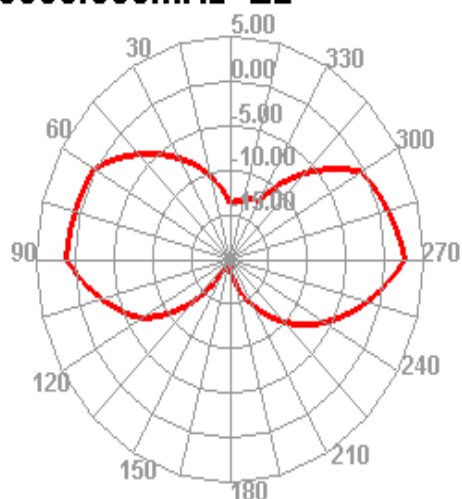
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



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