



DONGGUAN IPD INDUSTRIAL CO., LTD

APPROVAL SHEET

客 户 (Customer)			
日 期 (Date)	2024-05-17		
品名规格 (Description)	IPEX-1.13灰-2.4G-FPC天线-裁线L65MM		
料 号 (Part No.)			
供应商承认签章：			
工 程 ENGINEERING DEPARTMENT	品 保 QC DEPARTMENT	业 务 SALES DEPARTMENT	
江荣祯	徐晓萱	江建国	
客户承认签章：			
工 程 ENGINEERING DEPARTMENT	品 保 QC DEPARTMENT	生 产 MANUFACTORY DEPARTMENT	采 购 PURCHASING DEPARTMENT
批示： ☐ 接受 ☐ 有条件接受 Instructions: ☐ accepted ☐ conditional acceptance			
备注：(Remakes)			

※ 感谢给予敝公司送样承认之机会. 如惠蒙承认通过, 烦请将此表签回敝公司.

Electrical Specifications

电性能指标		Electrical Specifications	
频率范围 frequency domain	2400-2500MHZ	Frequency Range	2400-2500MHZ
增益 gain	2DBi	Gain	2DBi
电压驻波比 voltage standing wave ratio	≤2.0	VSWR	≤2.0
特性阻抗 characteristic	50 Ω	Characteristic Impedance	50 Ω
最大输入功率 Maximum input power	30W	Maximum Input Power	30W
机械指标		Mechanical Specifications	
连接器接口 Connector interface	IPEX	Antenna Color	IPEX
线材 wire rod	1.13	Cable	1.13
线材颜色 Wire color	灰色	Cable Color	Gray
接口形式 Interface form	焊接	Input connector	Welding
长度 length	65mm	Length	65mm
工作温度 operating temperature	-45℃~+85℃	Working Temperature	-45℃~+85℃
工作湿度 operating humidity	20~80%	Working Humidity	20~80%

实物图片 real picture

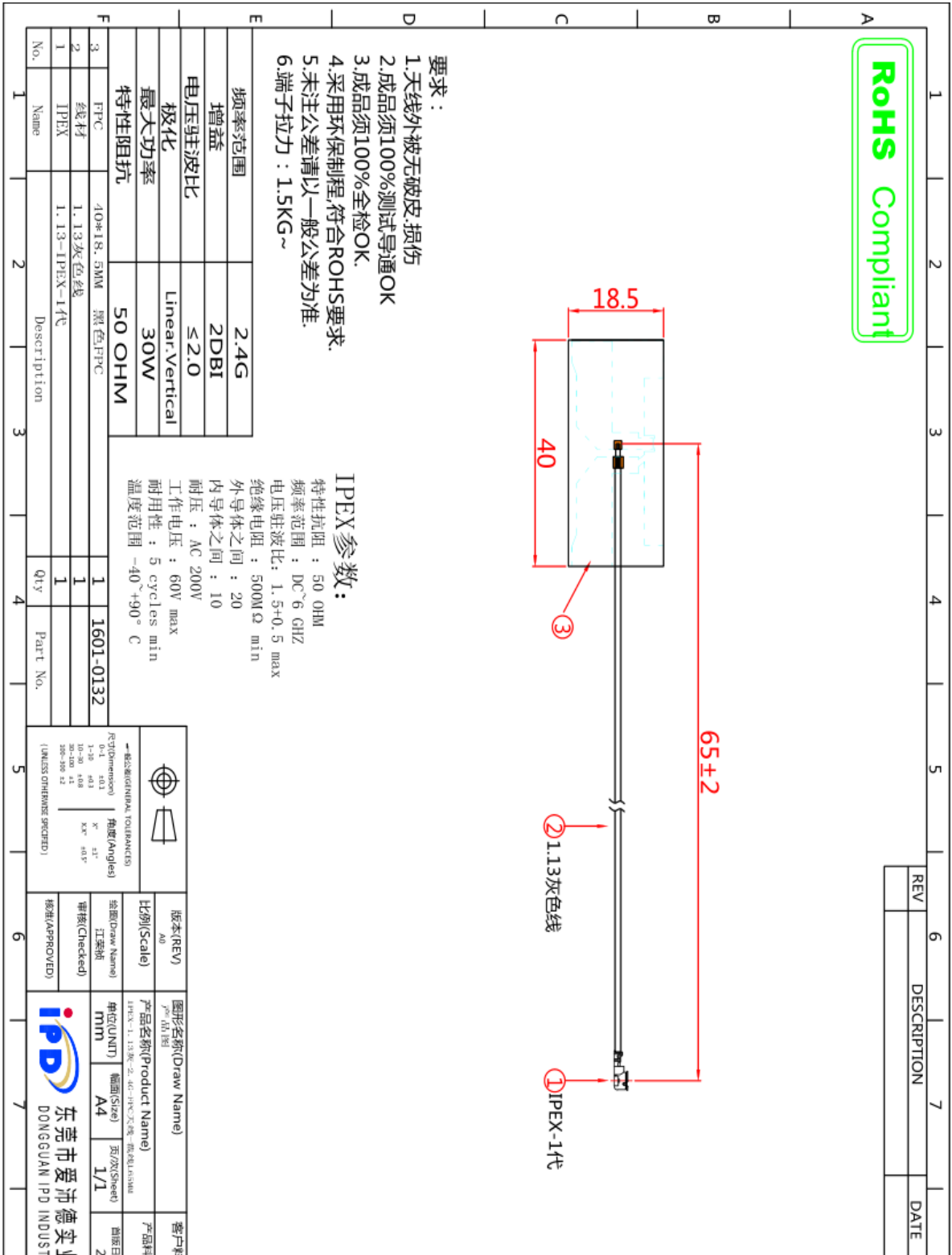




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2D工程图engineering drawing:



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线材规格参数:

1. SCOPE:

This specification covers FEP insulated High-Frequency coaxial cable for internal wiring of electronic equipment.

[UL STYLE 1354 80°C/30V]

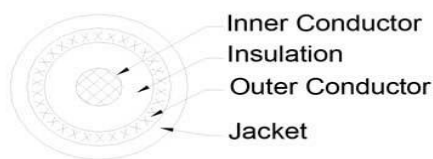
USE: Internal wiring of Class 2 Circuits of Electronic Equipment.

2. Construction :

	Item	Unit	Spec. Value
Inner Conductor	Material	---	Silver plated copper
	construction	No./mm	7/0.08
	Dia.(approx)	mm	0.24
Insulation	Material	---	FEP
	Nom. Thickness	mm	0.22
	Dia.(approx)	mm	0.68±0.05
	Color	---	Natural
Outer Conductor	Type	---	Braid
	Material	---	Silver plated copper
	Coverage	%	>93
	Dia.(approx)	mm	0.93
Jacket	Material	---	FEP
	Nom. Thickness	mm	0.10
	Color	---	Gray
	Dia.(approx)	mm	1.13 +0.10/-0.06

3. Characteristics :

Test Item	Unit	Specified Value	Note
Appearance	-	Faultless in visible	-
Temperature rating	°C	150	-
Voltage rating	V	250	-
Inner conductor resistance(at 20 °C)	Ω /km	Max.597	At 20 °C
Insulation resistance 1> (at 20 °C)	M Ω -km	Min.1500	At 20 °C
Dielectric strength	-	Dielectric core : No breakdown at AC1.5KV for 0.15sec.	Spark test
		Jacket : No breakdown at AC 1.5KV for 0.15sec.	Spark test
		No breakdown at AC 500V for 1min	Outer conductor to inner conductor
Capacitance	pF/m	Nom.98	At 1KHz
Characteristic impedance (at D-TDR)	Ω	50±2	TDR method
Attenuation	dB/m	2.0	1.0GHz
		2.9	2.0GHz
		3.6	3.0GHz
		4.2	4.0GHz
		4.7	5.0GHz
		5.2	6.0GHz

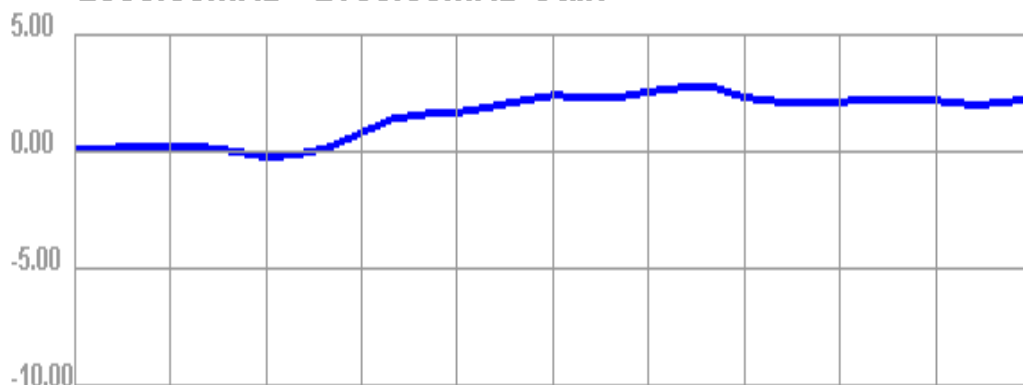


Cross-section of cable

微波暗室测试:

Passive Test For 2400-2500										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2300	45.33	-3.44	0.09	-2.06	22.54	22.787	0.09	-18.64	45.78	45.31
2310	45.84	-3.39	0.1	-2.05	22.939	22.904	0.1	-16.99	45.81	45.53
2320	47.47	-3.24	0.21	-1.94	24.143	23.328	0.21	-16.81	46.13	45.75
2330	49.61	-3.04	0.23	-1.92	25.521	24.093	0.23	-17.56	46.3	45.91
2340	50.04	-3.01	0.18	-1.97	25.758	24.287	0.18	-19.01	46.42	45.97
2350	48.96	-3.1	0	-2.15	24.975	23.984	0	-20.11	46.38	45.92
2360	47.2	-3.26	-0.26	-2.41	24.032	23.164	-0.26	-20.56	46.39	46.01
2370	47.18	-3.26	-0.15	-2.3	24.276	22.901	-0.15	-19.74	46.31	45.97
2380	51.47	-2.88	0.17	-1.98	26.76	24.707	0.17	-17.77	46.39	46.08
2390	57.31	-2.42	0.78	-1.37	30.085	27.223	0.78	-16.39	46.58	46.33
2400	62.96	-2.01	1.39	-0.76	33.36	29.605	1.39	-16.03	46.87	46.67
2410	61.12	-2.14	1.58	-0.57	32.588	28.531	1.58	-17.15	46.85	46.74
2420	62.19	-2.06	1.66	-0.49	33.349	28.846	1.66	-18.78	46.98	46.85
2430	64.24	-1.92	1.88	-0.27	34.404	29.836	1.88	-19.95	47.05	46.99
2440	71.16	-1.48	2.15	0	37.732	33.43	2.15	-19.36	47.31	47.29
2450	77.92	-1.08	2.38	0.23	40.75	37.166	2.38	-17.02	47.72	47.63
2460	77.59	-1.1	2.32	0.17	40.386	37.204	2.32	-15.65	47.76	47.66
2470	76.59	-1.16	2.29	0.14	39.808	36.785	2.29	-15.12	47.73	47.52
2480	78.75	-1.04	2.55	0.4	40.982	37.764	2.55	-15.28	47.76	47.52
2490	82.21	-0.85	2.71	0.56	42.774	39.433	2.71	-15.84	47.89	47.63
2500	81.01	-0.91	2.76	0.61	42.143	38.87	2.76	-16.87	47.75	47.52
2510	75.21	-1.24	2.3	0.15	39.298	35.917	2.3	-18.14	47.54	47.32
2520	72.69	-1.39	2.13	-0.02	37.811	34.875	2.13	-18.52	47.37	47.06
2530	72	-1.43	2.14	-0.01	37.278	34.718	2.14	-17.67	47.32	46.98
2540	70.02	-1.55	2.14	-0.01	35.928	34.09	2.14	-16.34	47.19	46.8
2550	71.68	-1.45	2.15	0	36.764	34.921	2.15	-15.1	47.22	46.83
2560	72.84	-1.38	2.21	0.06	37.529	35.31	2.21	-14.68	47.37	47.05
2570	73.01	-1.37	2.17	0.02	37.807	35.199	2.17	-14.55	47.5	47.07
2580	70.38	-1.53	2.01	-0.14	36.671	33.712	2.01	-14.92	47.57	47.09
2590	69.1	-1.61	2.04	-0.11	36.112	32.989	2.04	-15.7	47.74	47.42
2600	72.68	-1.39	2.29	0.14	37.908	34.777	2.29	-16.07	47.84	47.56

2300.00MHz - 2600.00MHz Gain



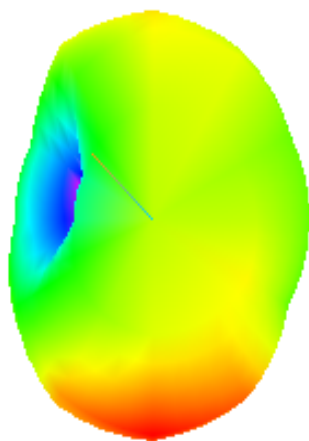
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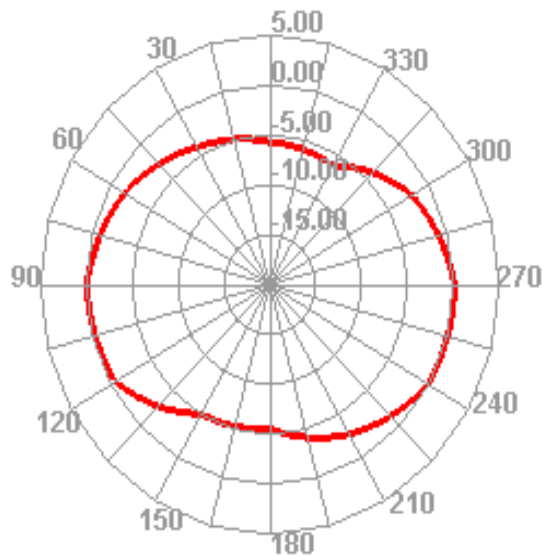
2300.00MHz - 2600.00MHz Efficiency



2400.000MHz

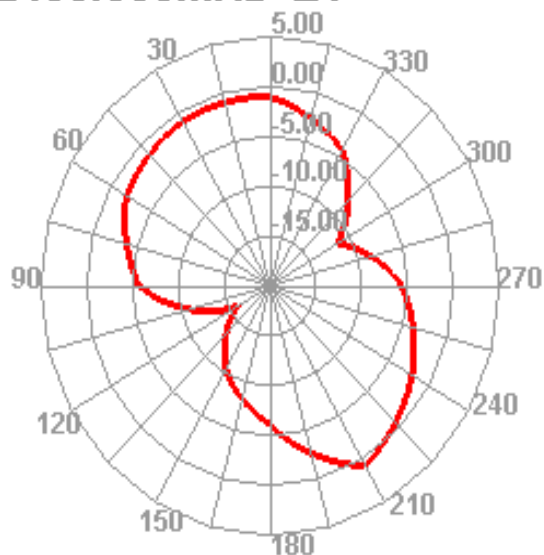


2400.000MHz H

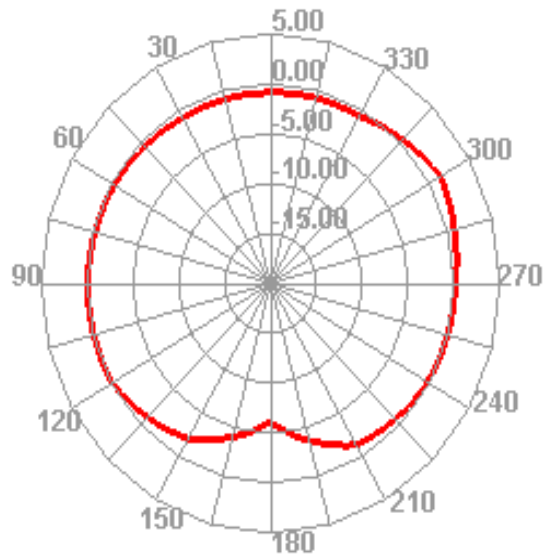


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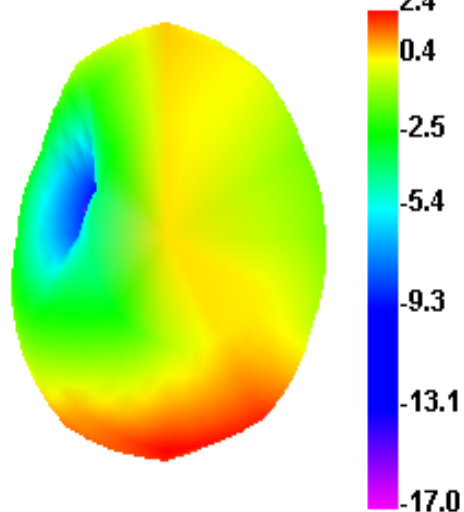
2400.000MHz E1



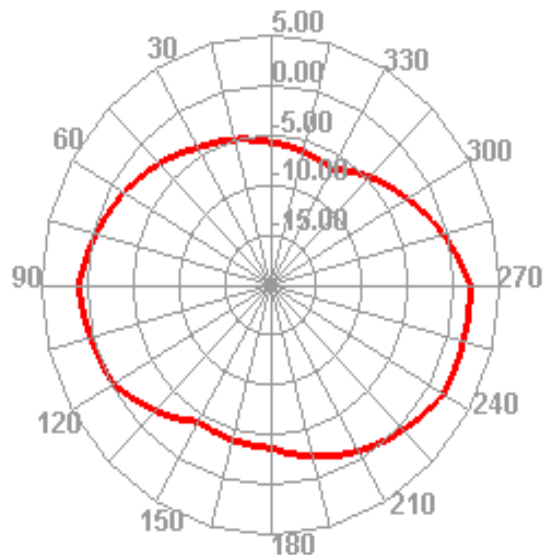
2400.000MHz E2



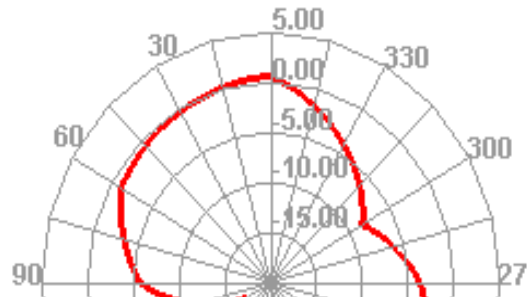
2450.000MHz



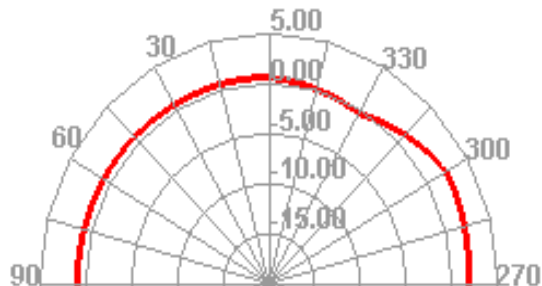
2450.000MHz H



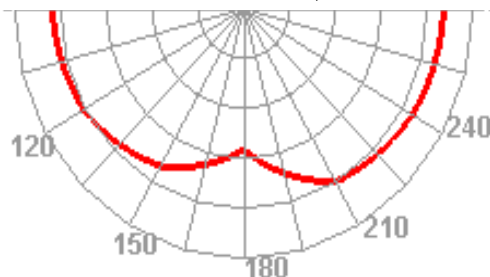
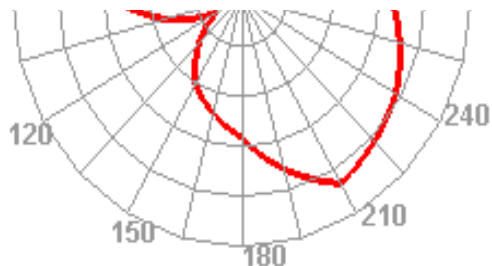
2450.000MHz E1



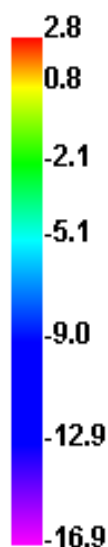
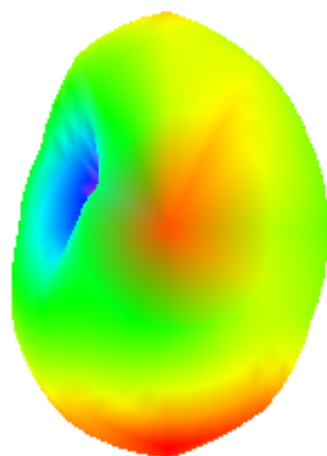
2450.000MHz E2



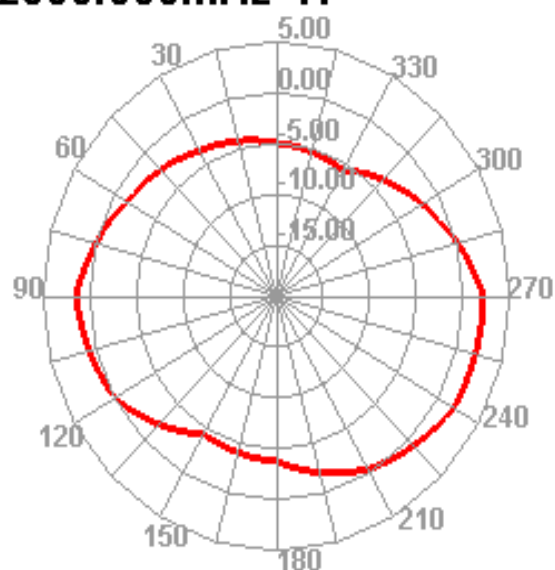
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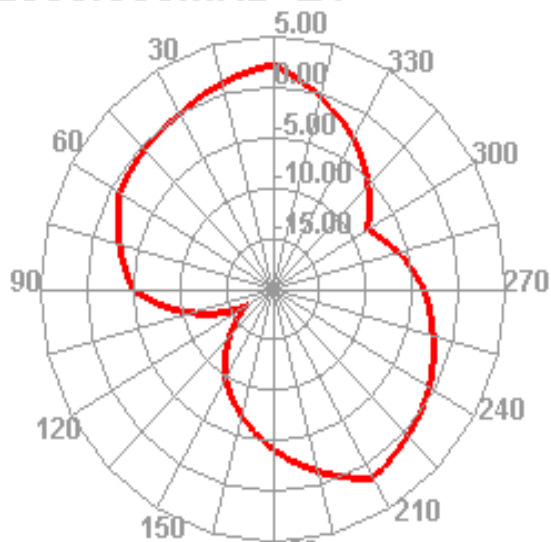
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

