

承认书

SPECIFICATION FOR APPROVAL

客户名称

Customer Name: _____

客户料号

Customer P/N: _____

劲风料号

Jing Feng P/N: JF8904-3

规格描述

Specification Description: SMA (male)-RG178 Brown-4G Black Round Rod Rubber Antenna-L195MM

制作日期

Production Date: 2023-09-19

出厂确认 (Factory Confirmation) :

部门 (Department)	审核 (CHECKED BY)	批准 (APPROVED BY)
射频部 (RF Department)	Tan Mu Chen	Wang Shuo
结构部 (Structure Department)	Liang Sen	Wang Shuo
品质部 (Quality Department)	Liu Xiao Jun	Wang Shuo

客户确认 (Customer Confirmation) :

检查 (INSPECTION)	审核 (CHECKED)	批准 (APPROVED)

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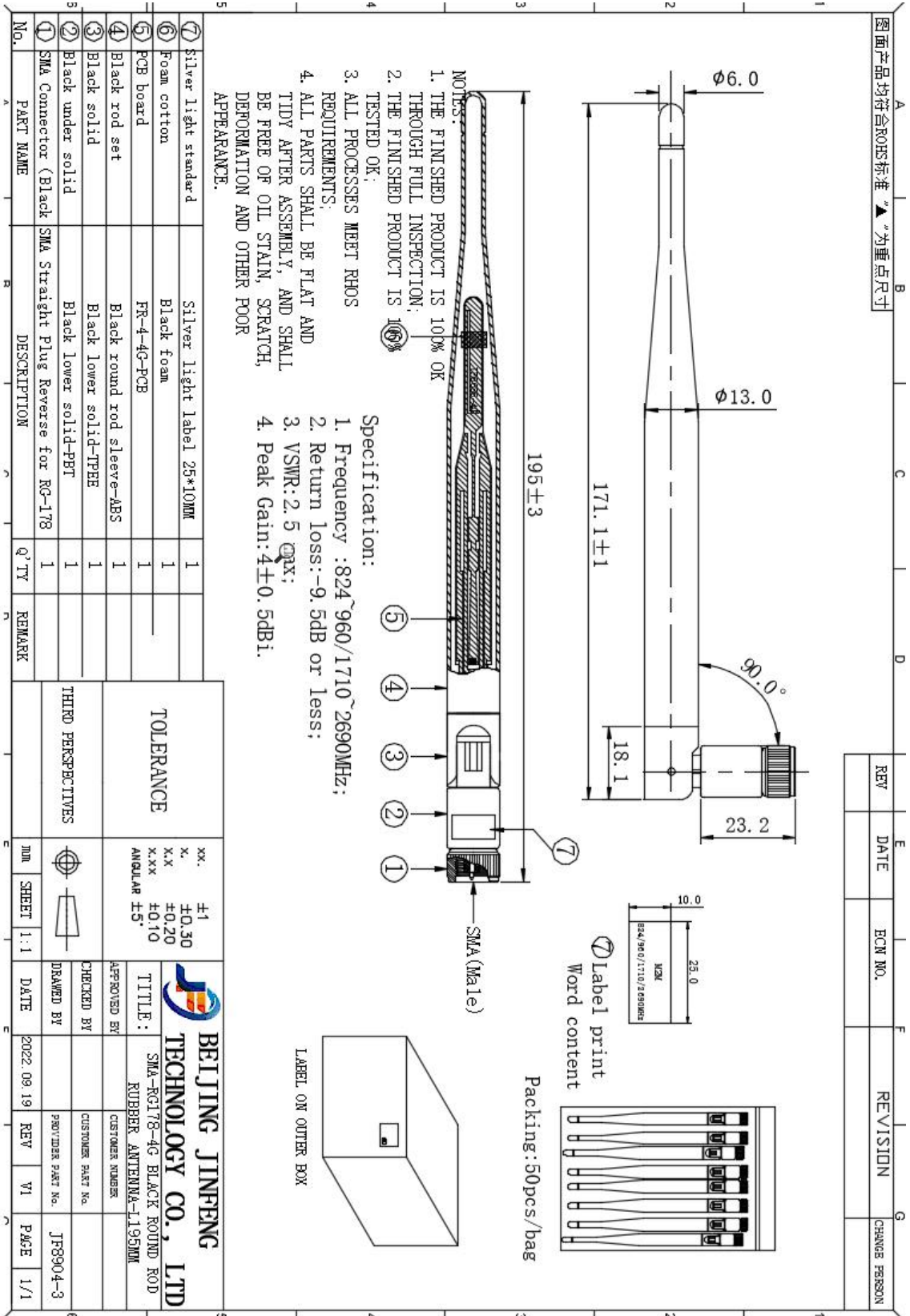
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4、产品性能参数 (Main technical specifications)

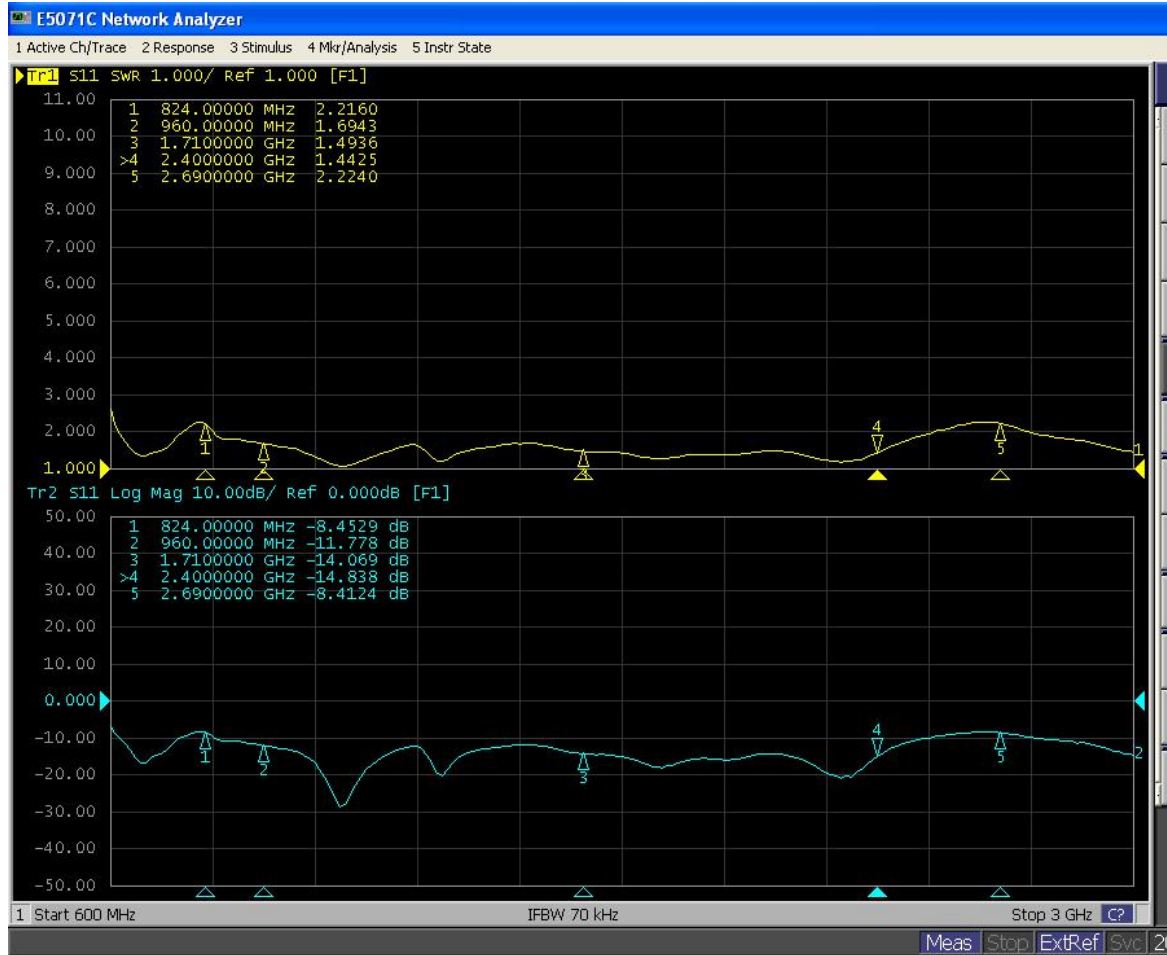
电气参数 (Electrical Parameters)	
频率范围 Frequency Range (MHz)	824~960/1710~2690MHz
输入阻抗 Impedance (Ω)	50 Ω
驻波比 VSWR	≤ 2.5
增益 Peak Gain (dBi)	4 \pm 0.5 dBi
功率容量 Power Capacity	3W
耐压测试 Withstand Voltage Test	1KV
极化方式 Polarization	Linear, Vertical
辐射方向 Radiation	Omni-Directional
连接方式 Connector Type	SMA (male)
机械参数 Mechanical Parameters	
天线尺寸 Length (mm)	L=195MM
盐雾试验 Salt Spray Test	24H
同轴线类型 Cable Type	RG178 Brown
环境参数 Environmental Parameters	
工作温度 Operating Temp	-20 $^{\circ}$ C~+65 $^{\circ}$ C
储存温度 Storage Temp	-30 $^{\circ}$ C~+75 $^{\circ}$ C

5、产品结构图纸 (Product drawing)



6、电气性能测试报告 (Electrical Performance Test report)

VSWR/Return Loss



效率&增益 (Efficiency & gain) :

Freq (MHz)	Effi (%)	Gain (dBi)
698	45.01	0.53
724.2	59.33	2.75
750.4	61.02	3.04
776.6	40.29	1.91
802.8	47.99	3.72
829	43.36	2.79
855.2	44.19	2.84
881.4	40.86	2.21
907.6	41.25	2.29
933.8	37.6	1.5
960	39.03	1.55

Freq (MHz)	Effi (%)	Gain (dBi)
1710	62.25	3.99
1720	78.96	5.04
1730	60.07	3.98
1740	67.48	4.53
1750	57.41	3.77
1760	64.21	4.22
1770	62.96	4.15
1780	59.61	4.02
1790	58.43	4.04
1800	55.15	3.84
1810	62.15	4.49
1820	54.11	4.06
1830	57.49	4.42
1840	55.69	4.34
1850	61.42	4.72
1860	67.22	5.09
1870	53.86	4.09
1880	58.03	4.4
1890	53.99	4.1
1900	66.46	5.01
1910	53.05	4.05

1920	59.63	4.51
1930	53.68	3.99
1940	56.78	4.18
1950	58.79	4.36
1960	53.93	3.98
1970	58.79	4.28
1980	52.22	3.7
1990	70.19	4.91
2000	52.98	3.64
2010	62.2	4.23
2020	53.65	3.49
2030	71.72	4.7
2040	61.06	4.01
2050	65.64	4.39
2060	59.94	3.93
2070	57.64	3.62
2080	63.87	3.91
2090	58.74	3.46
2100	65.5	3.86
Freq (MHz)	Effi (%)	Gain (dBi)
2110	42.33	1.87
2115	49.09	2.46
2120	55.11	2.94
2125	53.25	2.8
2130	47.55	2.3
2135	50.33	2.59
2140	56.84	3.16
2145	48.32	2.47
2150	42.58	1.94
2155	49.51	2.61
2160	50.39	2.62
2165	45.01	2.09
2170	47.12	2.26
2175	56.91	3.06
2180	52.33	2.69
2185	46.61	2.2
2190	49.47	2.51
2195	50.53	2.69
2200	48.39	2.54
2205	46.93	2.49

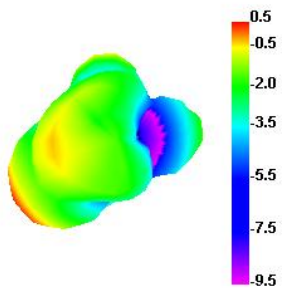
2210	49.96	2.85
2215	53.28	3.19
2220	49.68	2.96
2225	50.26	3.08
2230	53.07	3.36
2235	49.69	3.15
2240	47.74	3.03
2245	48.57	3.15
2250	49.71	3.33
2255	49.11	3.34
2260	48.93	3.37
2265	49.46	3.53
2270	48.97	3.65
2275	48.5	3.79
2280	48.88	3.94
2285	47.85	3.94
2290	48.43	4.1
2295	50.08	4.27
2300	51.07	4.34
2305	49.5	4.22
2310	49.08	4.21
2315	51.43	4.47
2320	51.1	4.48
2325	50.81	4.51
2330	51.28	4.58
2335	53.49	4.81
2340	52.79	4.79
2345	50.97	4.71
2350	53.53	4.94
2355	51.07	4.75
2360	46.96	4.37
2365	49.03	4.53
2370	49.74	4.57
2375	48.83	4.43
2380	48.08	4.3
2385	49.29	4.3
2390	51.73	4.53
2395	47.85	4.2
2400	52.63	4.62
2405	47.05	4.09
2410	55.16	5.32

2415	45.94	3.86
2420	52.95	4.31
2425	48.67	3.78
2430	52.36	3.94
2435	49.04	3.51
2440	52.62	3.63
2445	51.04	3.28
2450	53.45	3.27
2455	51.05	2.87
2460	55.12	3.08
2465	52.85	2.83
2470	60.27	3.33
2475	51.88	2.66
2480	50.84	2.54
2485	57.96	3.08
2490	58.41	3.05
2495	54.27	2.7
2500	54.67	2.88
2505	57.86	3.23
2510	51.75	2.83
2515	49.24	2.72
2520	54.9	3.27
2525	53.67	3.25
2530	48.25	2.83
2535	50.84	3.22
2540	54.71	3.62
2545	51.63	3.44
2550	45.4	3
2555	49.3	3.43
2560	53.56	3.91
2565	46.86	3.39
2570	46.51	3.44
2575	52.72	4.04
2580	52.49	4.1
2585	45.4	3.56
2590	47.01	3.72
2595	54.63	4.4
2600	47.28	3.81
2605	43.87	3.49
2610	50.13	4.04
2615	49.99	4.05

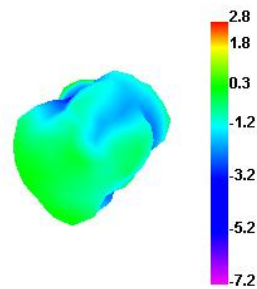
2620	46	3.69
2625	45.09	3.59
2630	49.46	3.97
2635	51.78	4.17
2640	45.17	3.62
2645	46.39	3.77
2650	51.83	4.26
2655	46.9	3.81
2660	45.04	3.66
2665	50.01	4.1
2670	51.94	4.23
2675	47.97	3.88
2680	48.09	3.86
2685	50.44	4.05
2690	47.56	3.74

3D Radiation pattern:

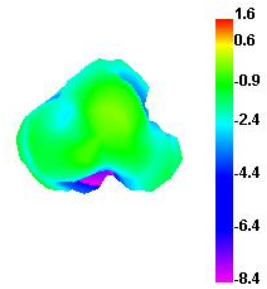
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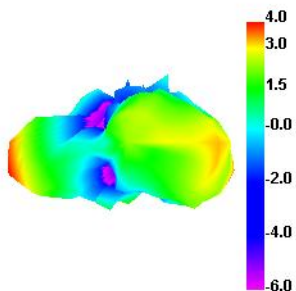
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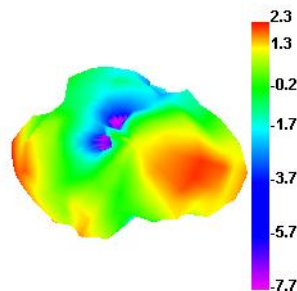
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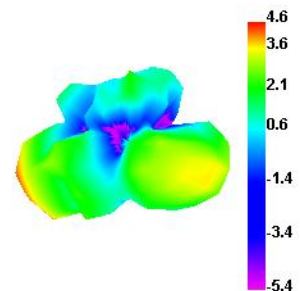
1710.000MHz



2170.000MHz

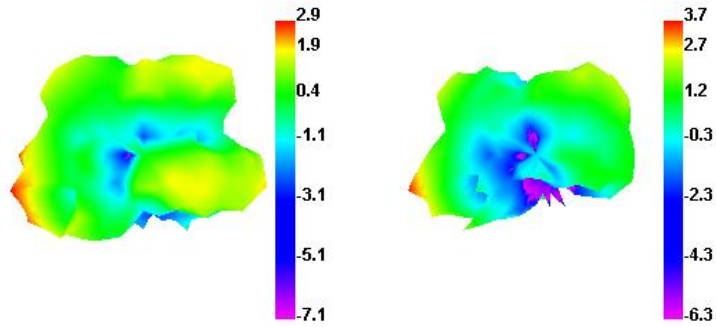


2400.000MHz



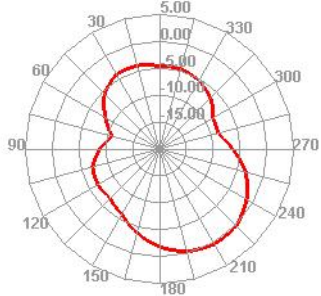
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2690.000MHz

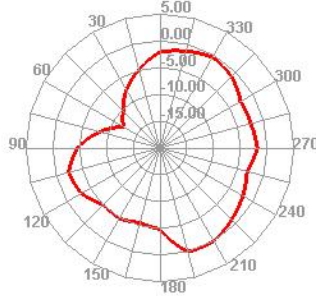


2D Radiation pattern:

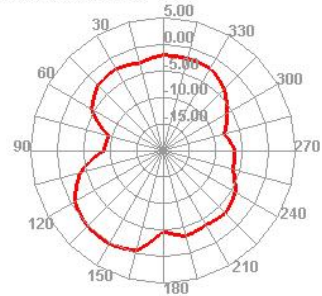
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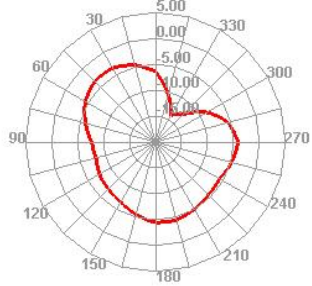
698.000MHz E1



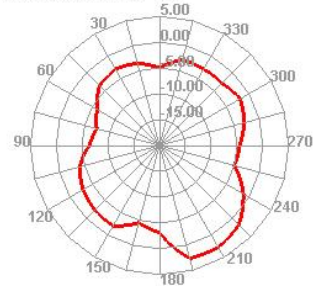
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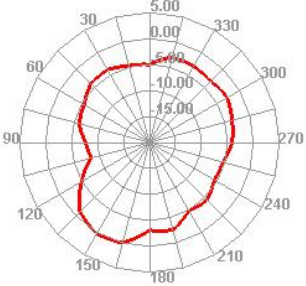
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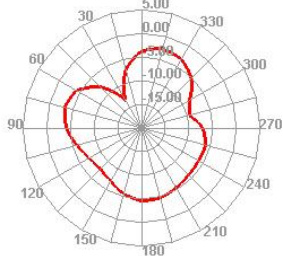
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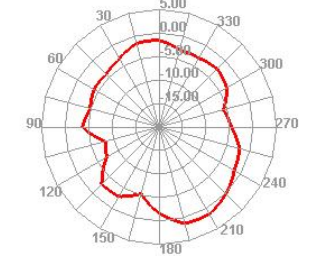
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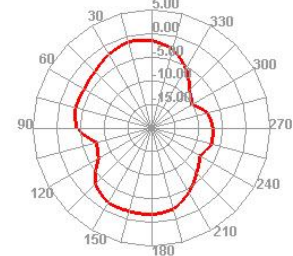
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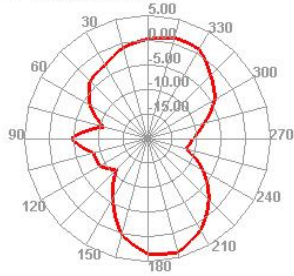
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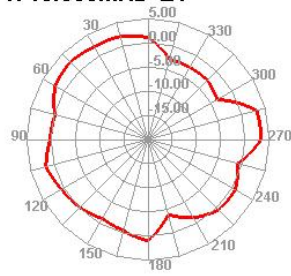
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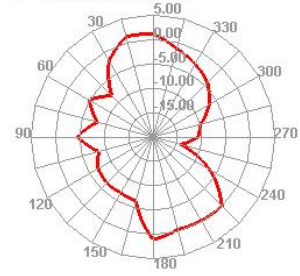
1710.000MHz H



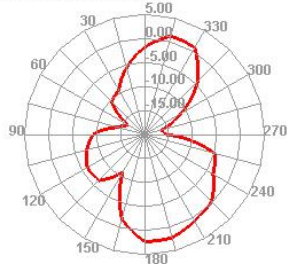
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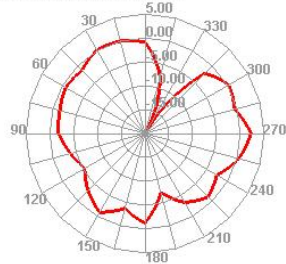
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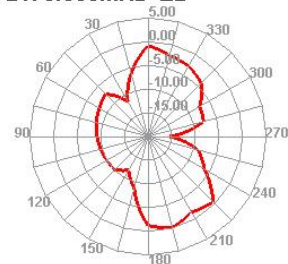
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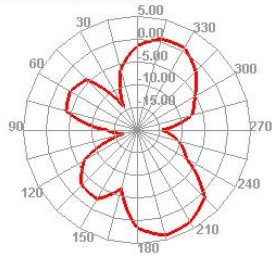
2170.000MHz E1



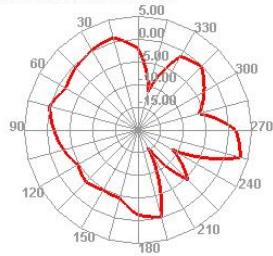
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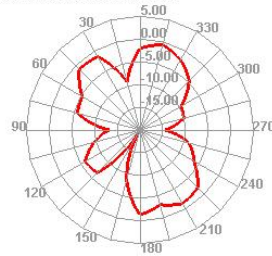
2400.000MHz H



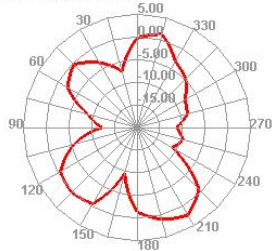
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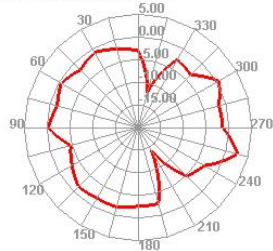
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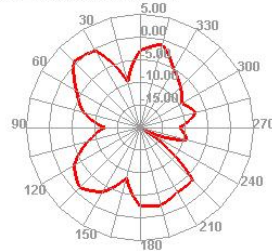
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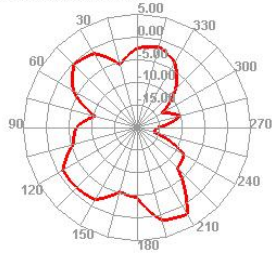
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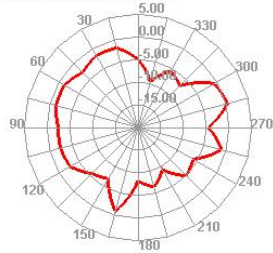
2500.000MHz E2



2690.000MHz H



2690.000MHz E1



2690.000MHz E2

