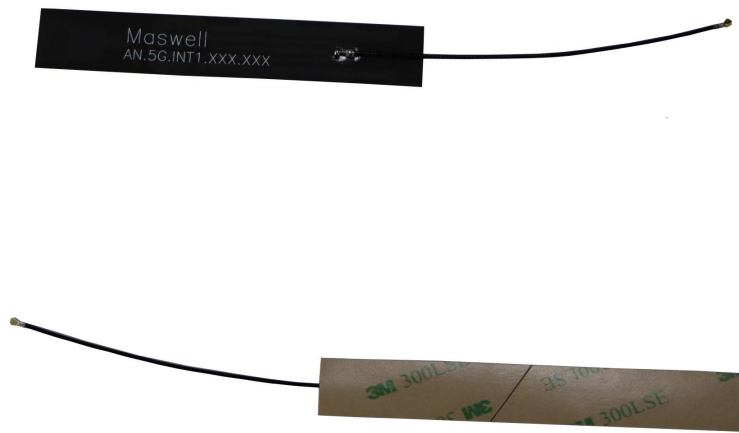
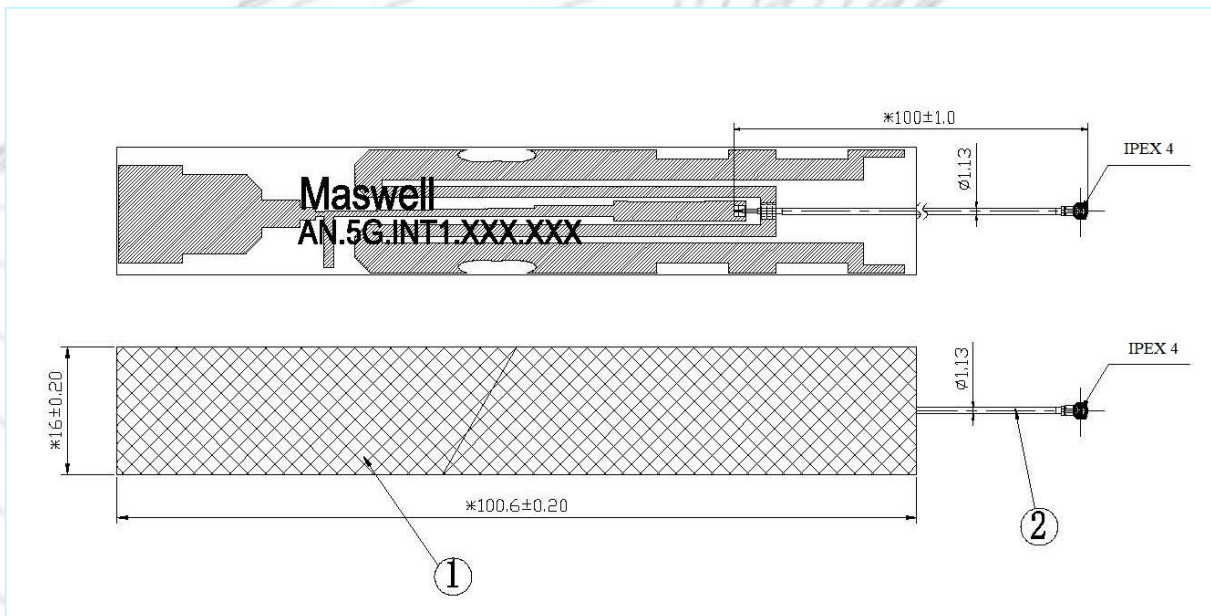


Maswell 5G Internal Antenna Mini-profile

AN.5G.INT1.100.IP4



Mechanical dimension



Maswell 5G Internal Antenna Mini-profile

AN.5G.INT1.100.IP4

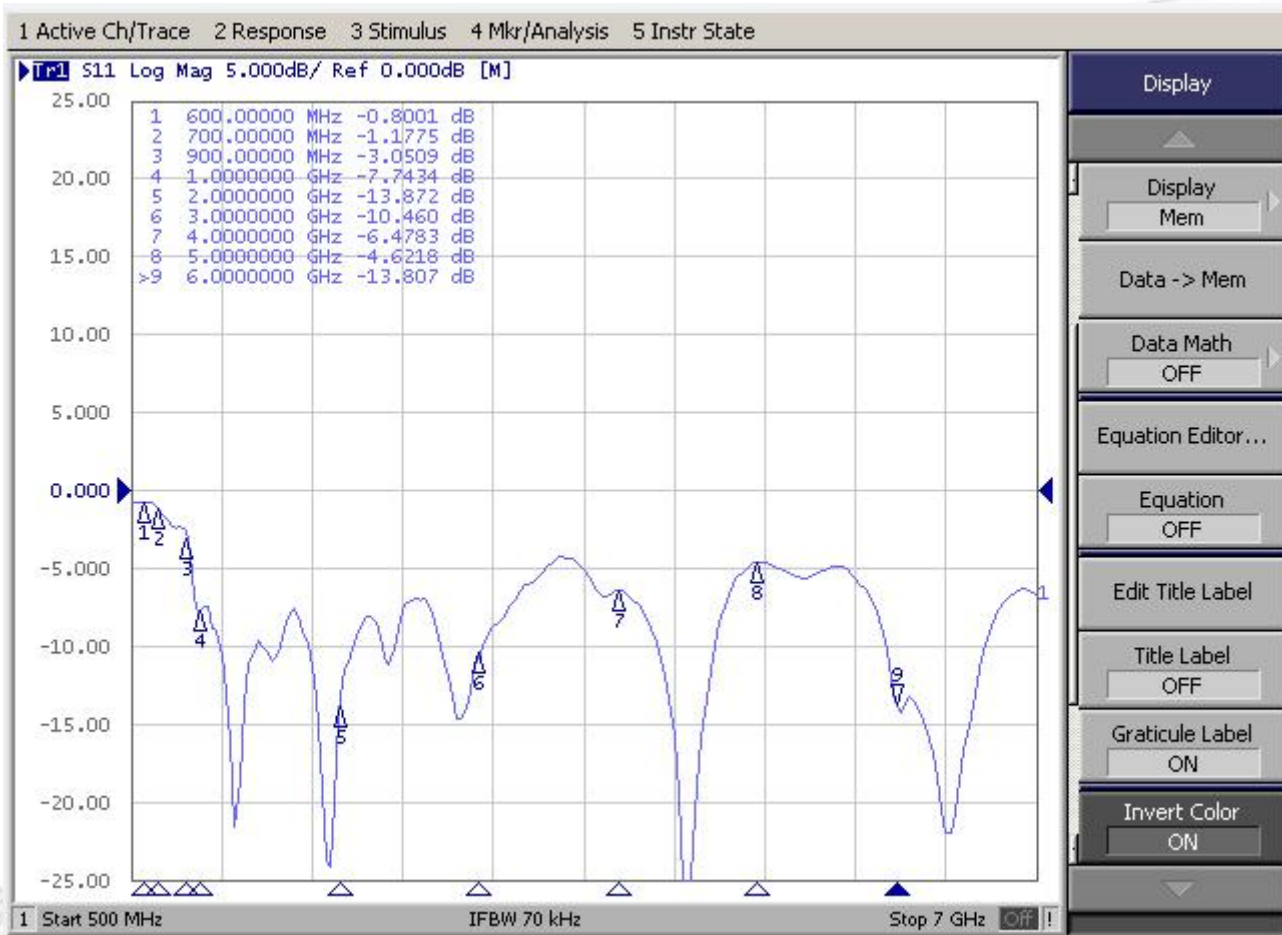
Specifications

Item	Specifications	
5G Antenna	Center Frequency	800MHz ~6000MHz
	Gain	2.5dBi (Max)
	Efficiency	>50%
Mechanical	Dimension	10cm *1.6cm (exclude cable)
	Material	FPC
	Cable Type	RF1.13
	Cable Length	10cm
	Connector	IPEX4

Maswell 5G Internal Antenna Mini-profile

AN.5G.INT1.100.IP4

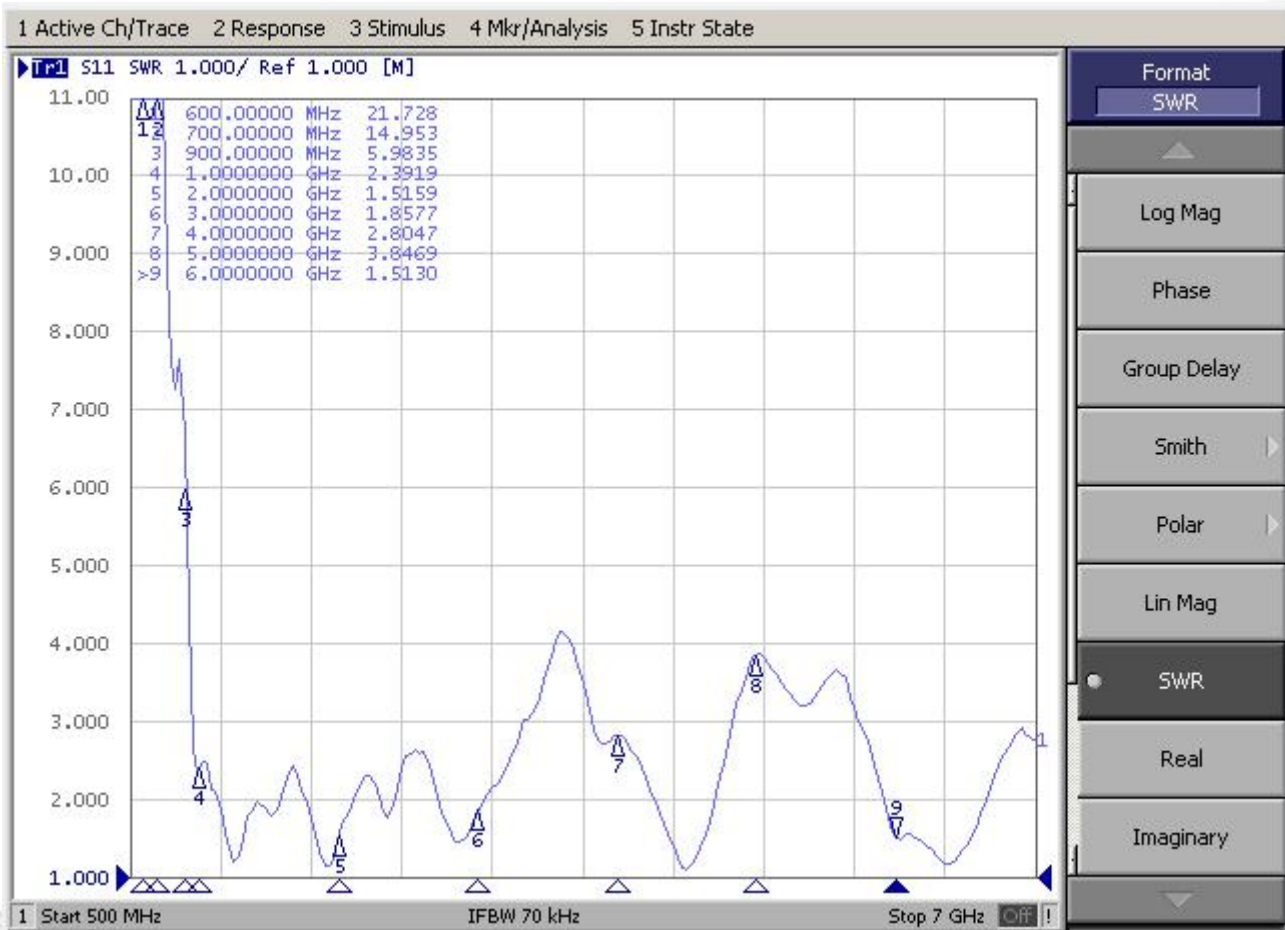
S11



Maswell 5G Internal Antenna Mini-profile

AN.5G.INT1.100.IP4

VSWR

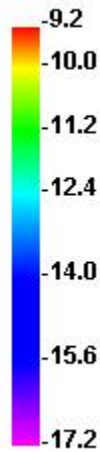
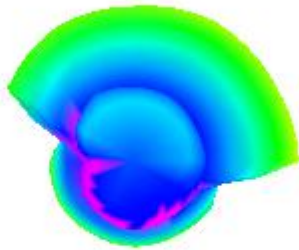


Maswell 5G Internal Antenna Mini-profile

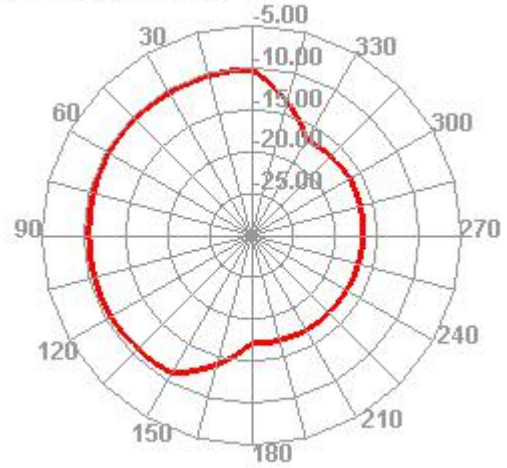
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Pattern

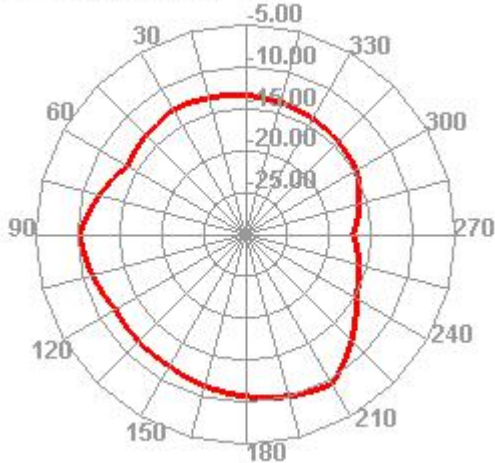
600.000MHz



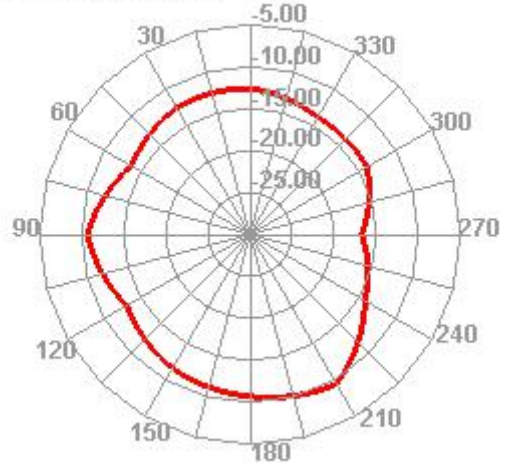
600.000MHz H



600.000MHz E1



600.000MHz E2

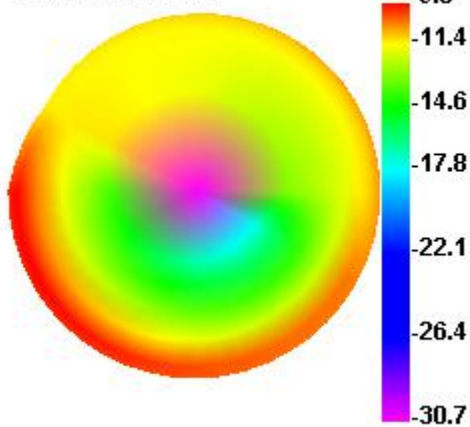


Maswell 5G Internal Antenna Mini-profile

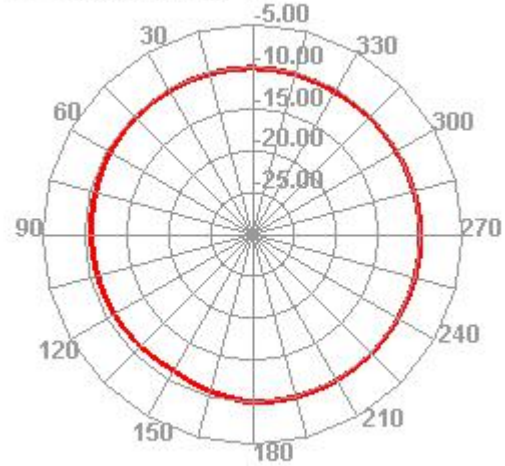
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Pattern

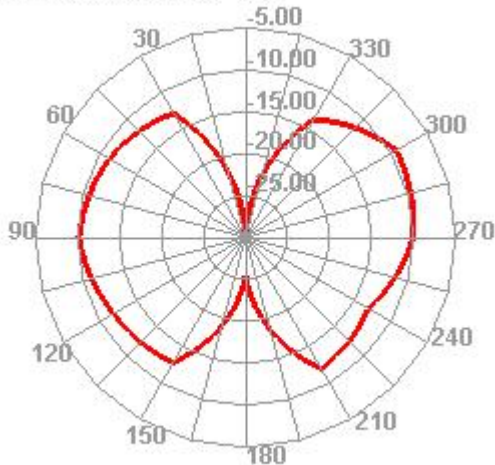
700.000MHz



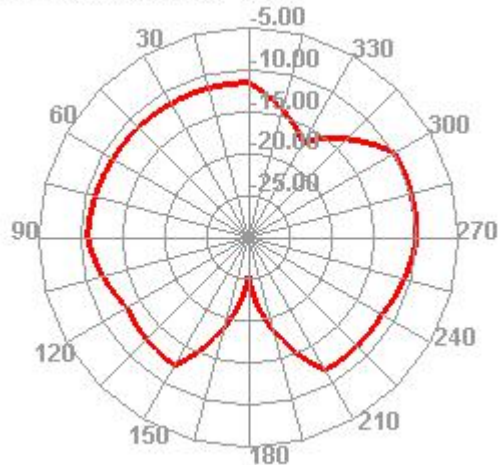
700.000MHz H



700.000MHz E1



700.000MHz E2

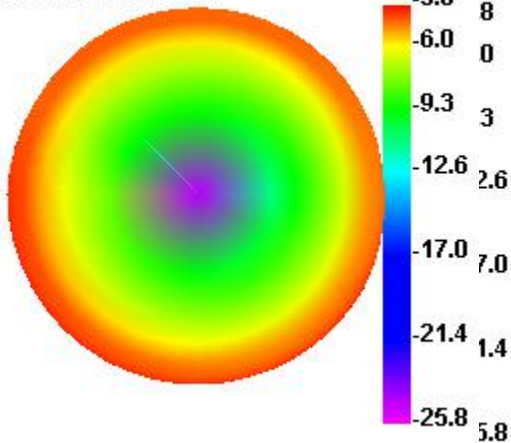


Maswell 5G Internal Antenna Mini-profile

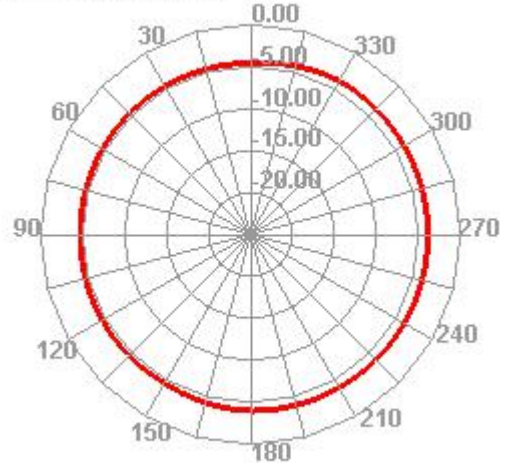
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Pattern

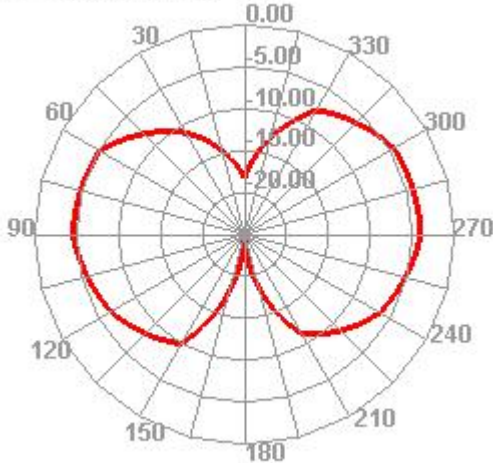
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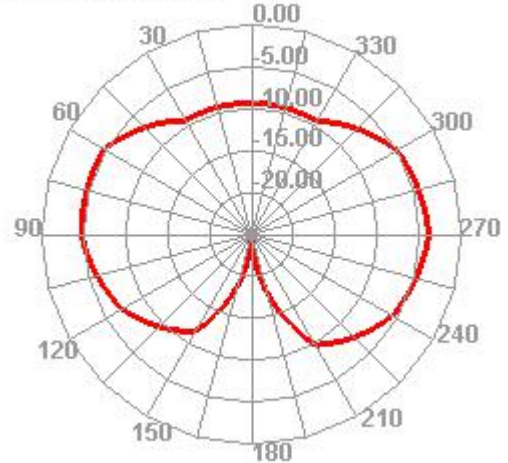
800.000MHz H



800.000MHz E1



800.000MHz E2

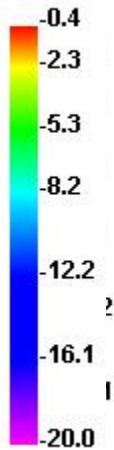
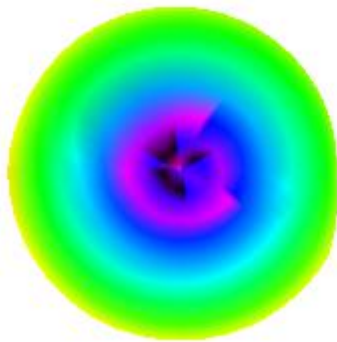


Maswell 5G Internal Antenna Mini-profile

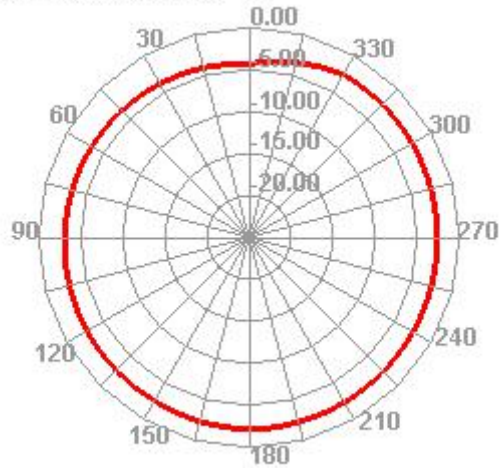
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Pattern

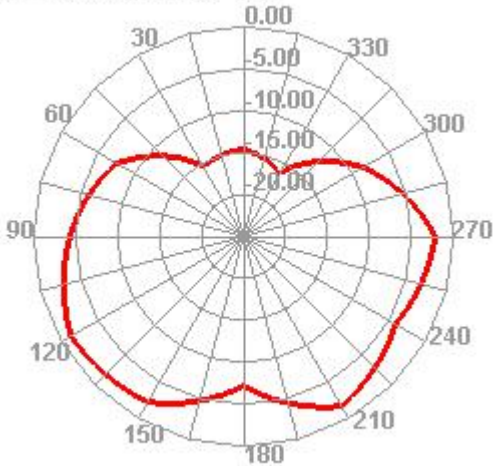
900.000MHz



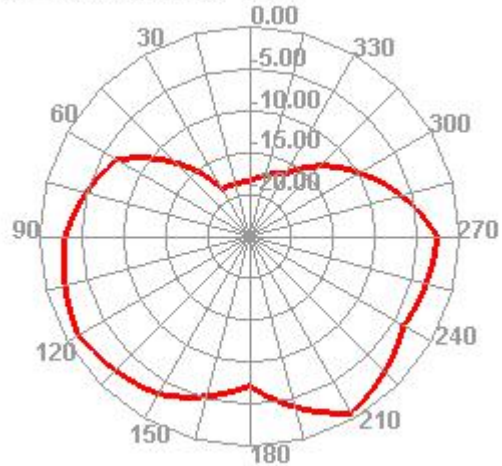
900.000MHz H



900.000MHz E1



900.000MHz E2

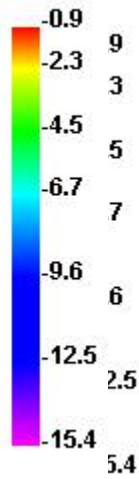
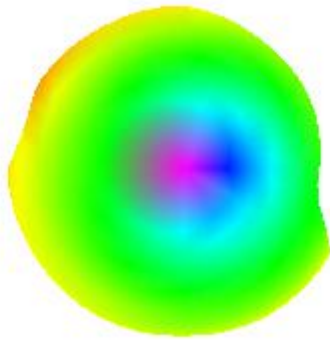


Maswell 5G Internal Antenna Mini-profile

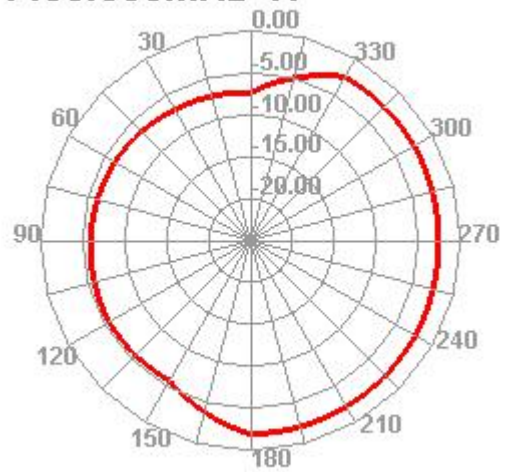
AN.5G.INT1.100.IP4

Pattern

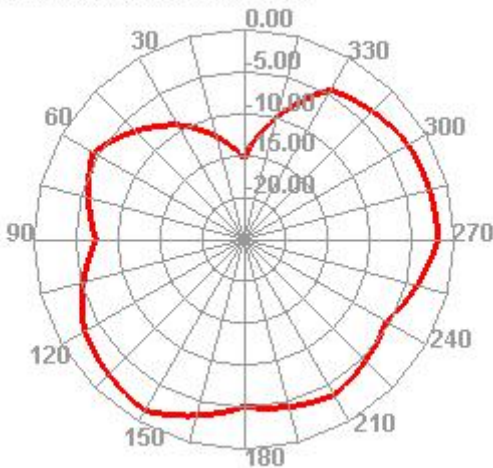
1400.000MHz



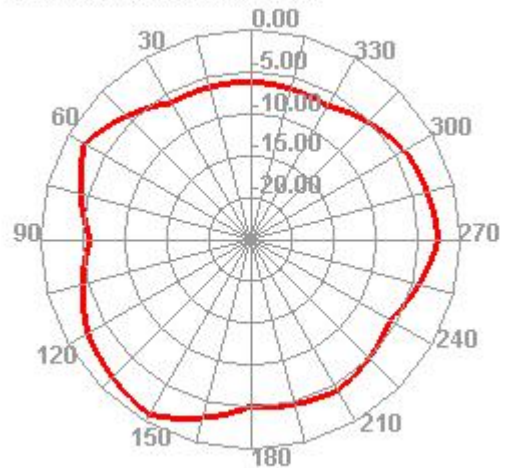
1400.000MHz H



1400.000MHz E1



1400.000MHz E2

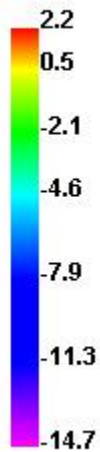
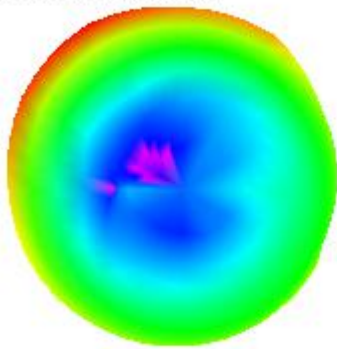


Maswell 5G Internal Antenna Mini-profile

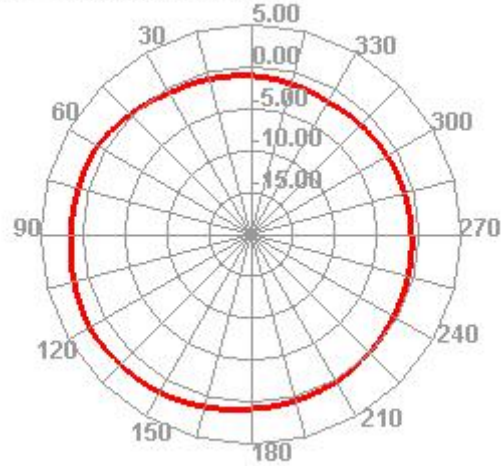
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Pattern

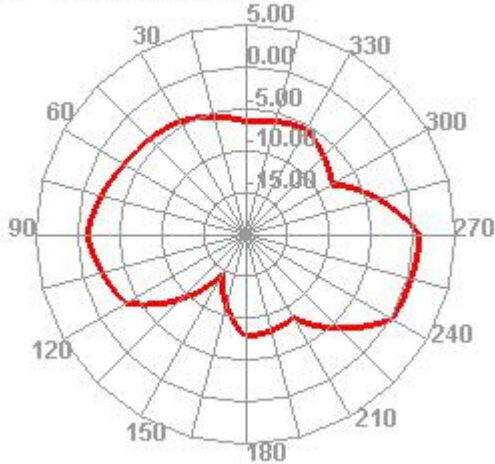
2000.000MHz



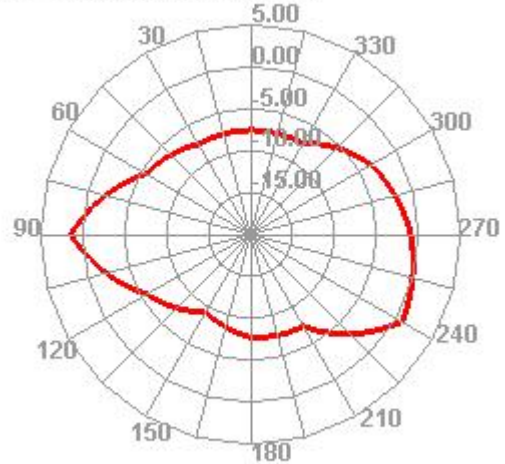
2000.000MHz H



2000.000MHz E1



2000.000MHz E2

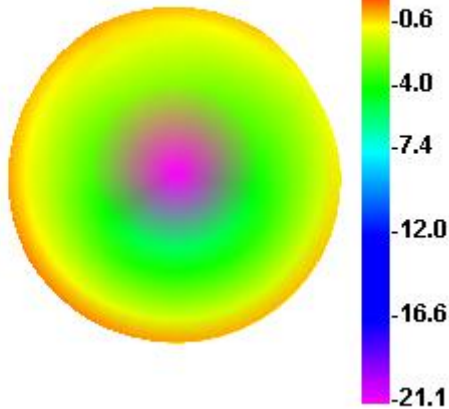


Maswell 5G Internal Antenna Mini-profile

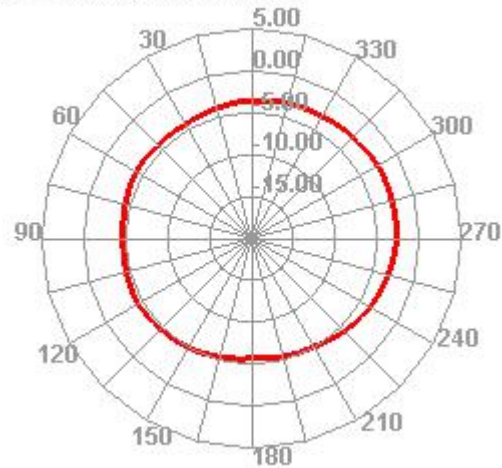
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Pattern

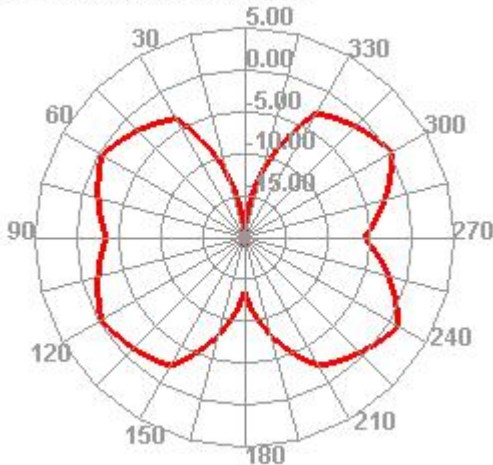
3000.000MHz



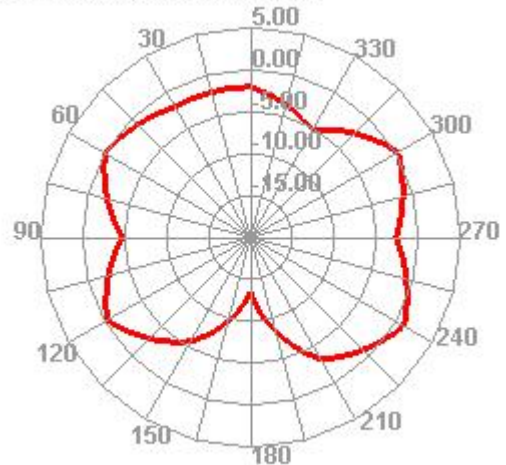
3000.000MHz H



3000.000MHz E1



3000.000MHz E2

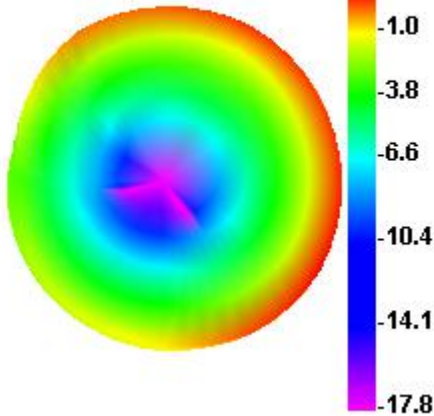


Maswell 5G Internal Antenna Mini-profile

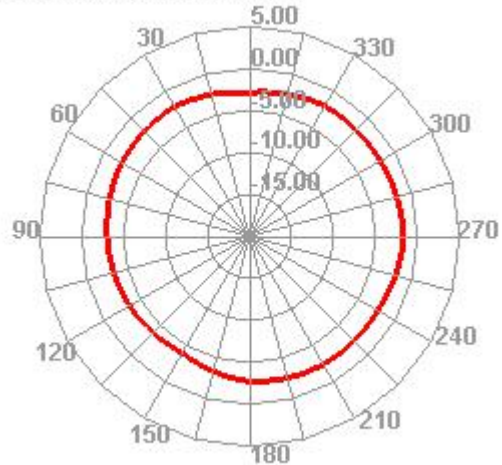
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Pattern

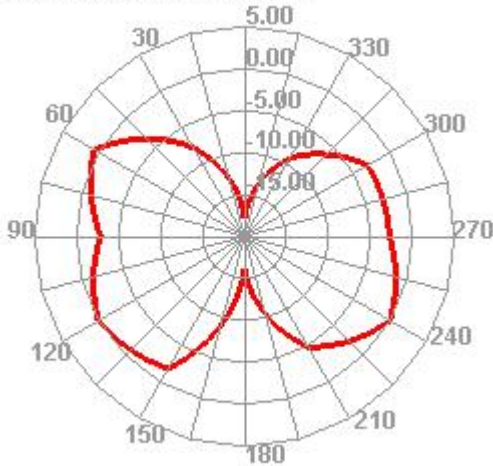
3300.000MHz



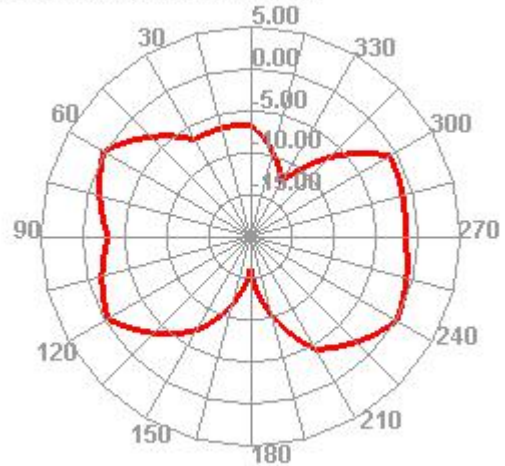
3300.000MHz H



3300.000MHz E1



3300.000MHz E2

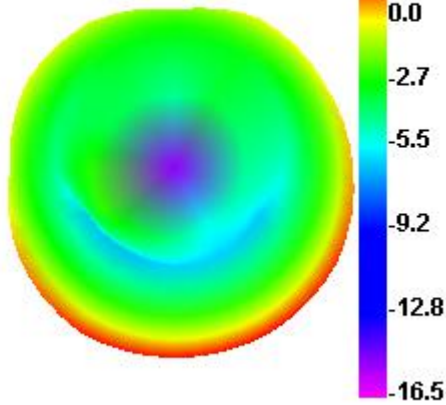


Maswell 5G Internal Antenna Mini-profile

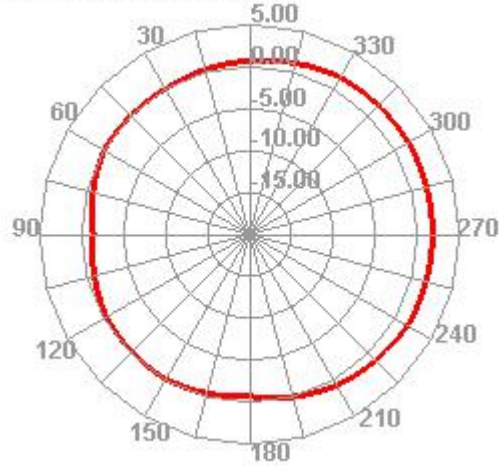
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Pattern

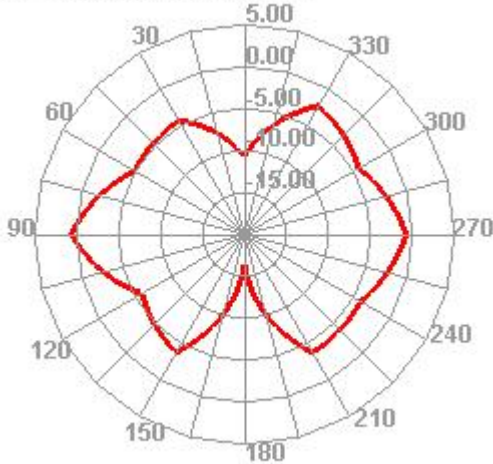
4000.000MHz



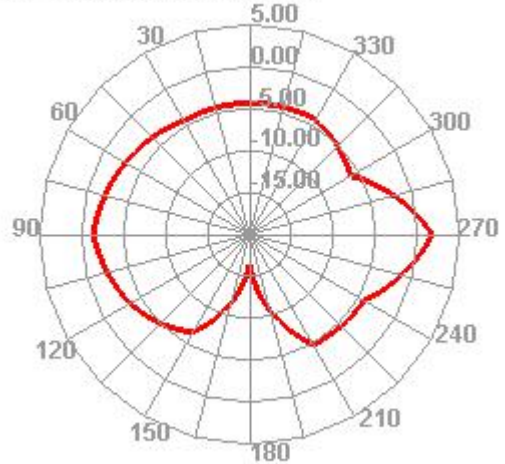
4000.000MHz H



4000.000MHz E1



4000.000MHz E2

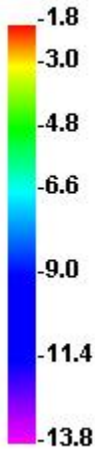
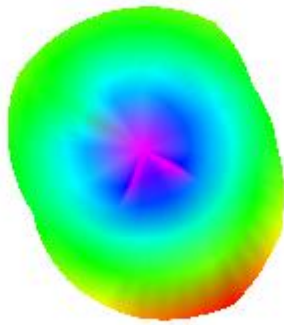


Maswell 5G Internal Antenna Mini-profile

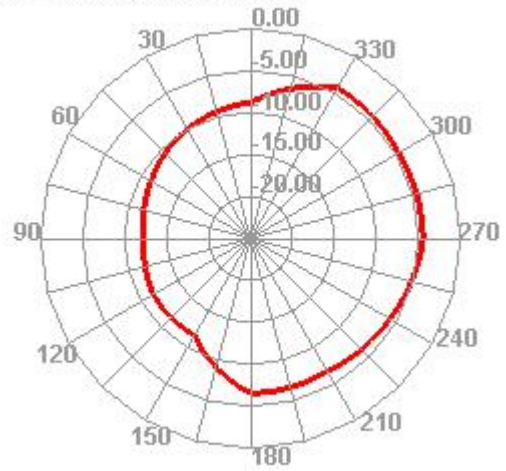
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Pattern

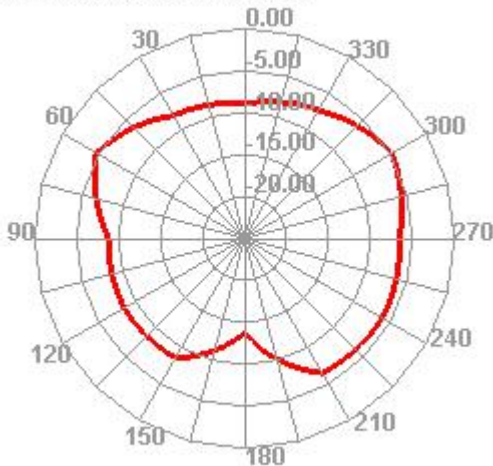
5000.000MHz



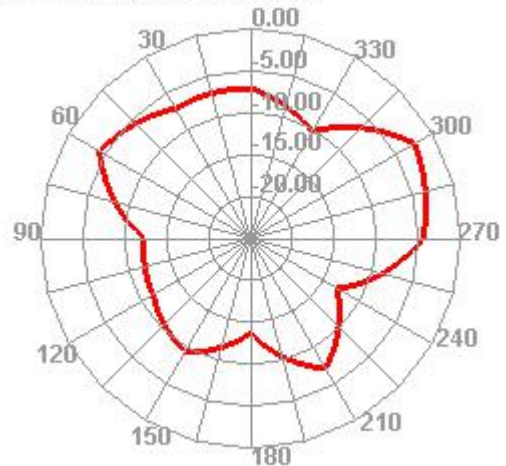
5000.000MHz H



5000.000MHz E1



5000.000MHz E2

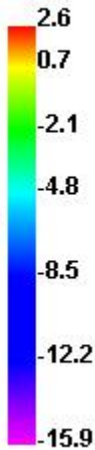
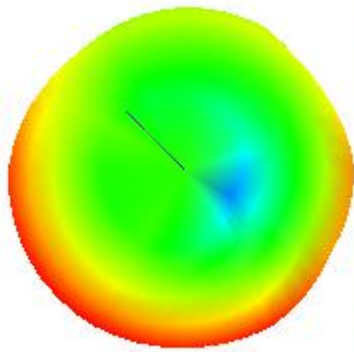


Maswell 5G Internal Antenna Mini-profile

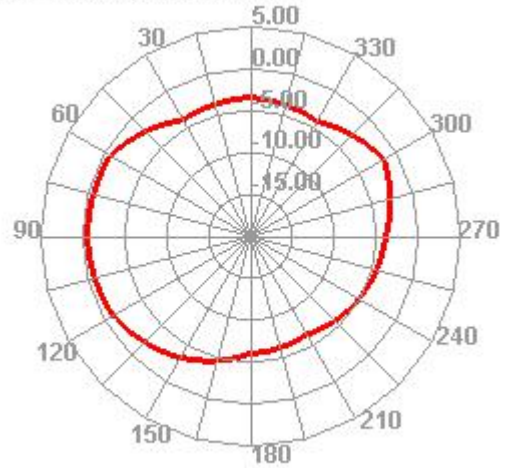
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Pattern

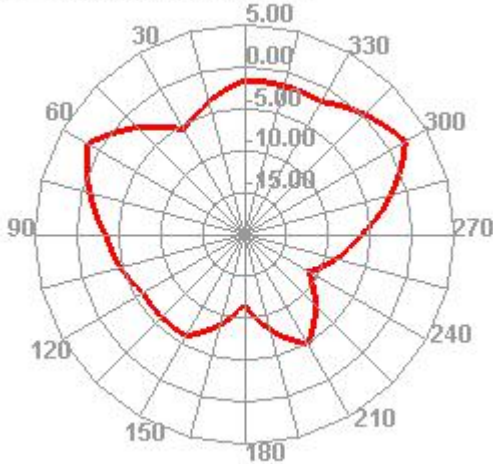
6000.000MHz



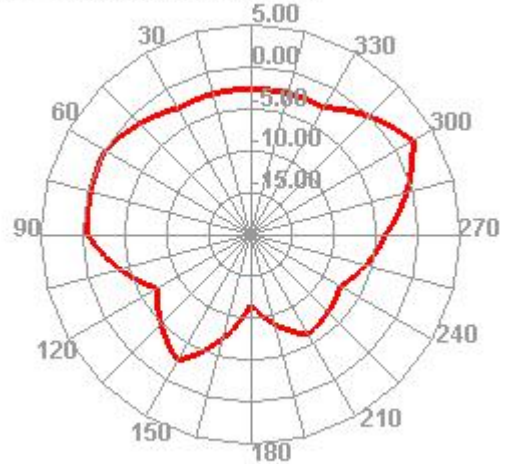
6000.000MHz H



6000.000MHz E1



6000.000MHz E2



Maswell 5G Internal Antenna Mini-profile

AN.5G.INT1.100.IP4

Measured Data

Freq (MHz)	Effi (%)	Gain (dBi)
600	5.16	-9.17
700	7.14	-9.25
800	25.16	-3.85
900	38.73	-0.38
1000	62.54	1.54
1100	50.19	0.24
1200	64.79	0.35
1300	59.51	0.94
1400	42.12	-0.86
1500	47.83	1.66
1600	39.68	0.18
1700	43.87	0.58
1800	60.08	2.3
1900	42.51	1.02
2000	57.77	2.15
2100	55.5	1.64
2200	55.07	2.55
2300	58.65	2.5
2400	63.62	2.59
2500	68.84	2.17
2600	67.08	2.02
2700	76.62	2.37
2800	89.12	2.79
2900	81.55	2.19
3000	71.95	1.69
3100	72.12	1.79
3200	57.16	0.97

Freq (MHz)	Effi (%)	Gain (dBi)
3300	65.74	0.87
3400	57.91	0.7
3500	46.4	-0.04
3600	41.32	-0.29
3700	36.62	-0.22
3800	42.47	0.39
3900	55.88	1.84
4000	56.32	1.85
4100	63.31	2.36
4200	66.13	2.23
4300	73.76	2.72
4400	76.29	2.79
4500	65.45	2.1
4600	48.53	0.49
4700	41.57	-0.8
4800	27.12	-2.52
4900	30.81	-1.33
5000	21.57	-1.79
5100	32.95	0.3
5200	31.47	0.03
5300	45.17	1.29
5400	42.44	1.1
5500	43.67	1.47
5600	38.65	0.99
5700	40.34	1.63
5800	44.85	2.01
5900	49.23	1.58
6000	59.98	2.55