

MODEL NUMBER:
QRHA6G-OB

**700 MHz - 6 GHz Open Boundary Quad
Ridged Dual Polarized Horn Antenna**

TECHNICAL SPECIFICATION

Frequency Range (GHz)	0.7 - 6.0
Gain (dBi)	11 Typ.
Polarization	Dual Pol.
3dB Beamwidth (deg)	155 - 16
Cross Pol. Isolation (dB)	18 Min.
Port to Port Isolation (dB)	20 Min.
VSWR	2.0:1 Typ.
Output	SMA-Female or N-Female
Power Handling(W)	SMA-Female: 50 Max. CW N-Female: 50 Max. CW
Material	Al
Size (mm)	310 x 310 x 411
Net Weight (Kg)	5.0 Around

ANTENNA FACTOR (TABLE)

1m

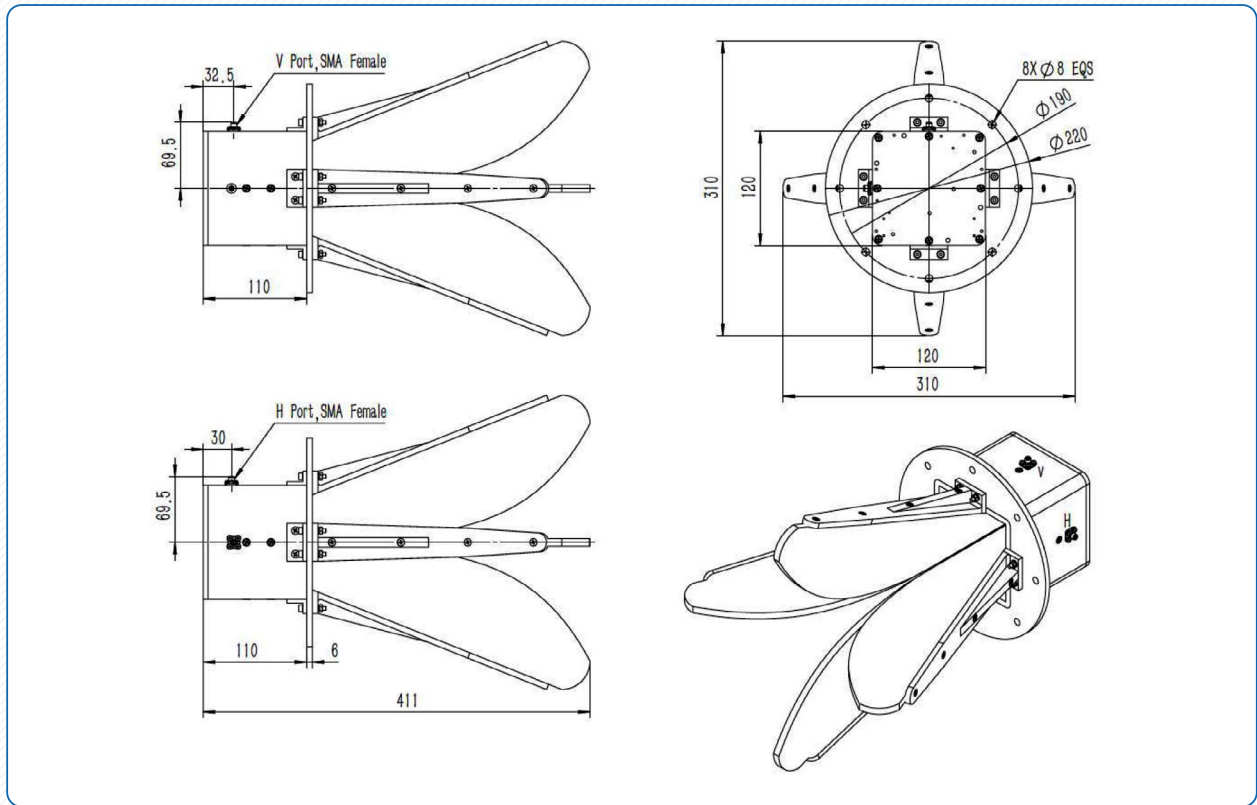
Frequency (GHz)	Horizontal		Vertical	
	Gain (dBi)	AF (dB/m)	Gain (dBi)	AF (dB/m)
0.7	2.15	24.97	2.87	24.24
0.8	5.21	23.06	4.63	23.64
0.9	5.81	23.48	5.97	23.32
1.0	6.50	23.71	6.41	23.80
1.5	8.27	25.46	8.31	25.42
2.0	8.75	27.49	8.54	27.69
2.5	8.53	29.64	8.54	29.63
3.0	8.61	31.14	8.39	31.36
3.5	7.77	33.32	7.36	33.73
4.0	9.21	33.05	9.06	33.19
4.5	9.00	34.28	8.04	35.24
5.0	9.73	34.46	9.78	34.41
5.5	11.82	33.20	10.86	34.15
6.0	10.38	35.39	9.22	36.55

3m

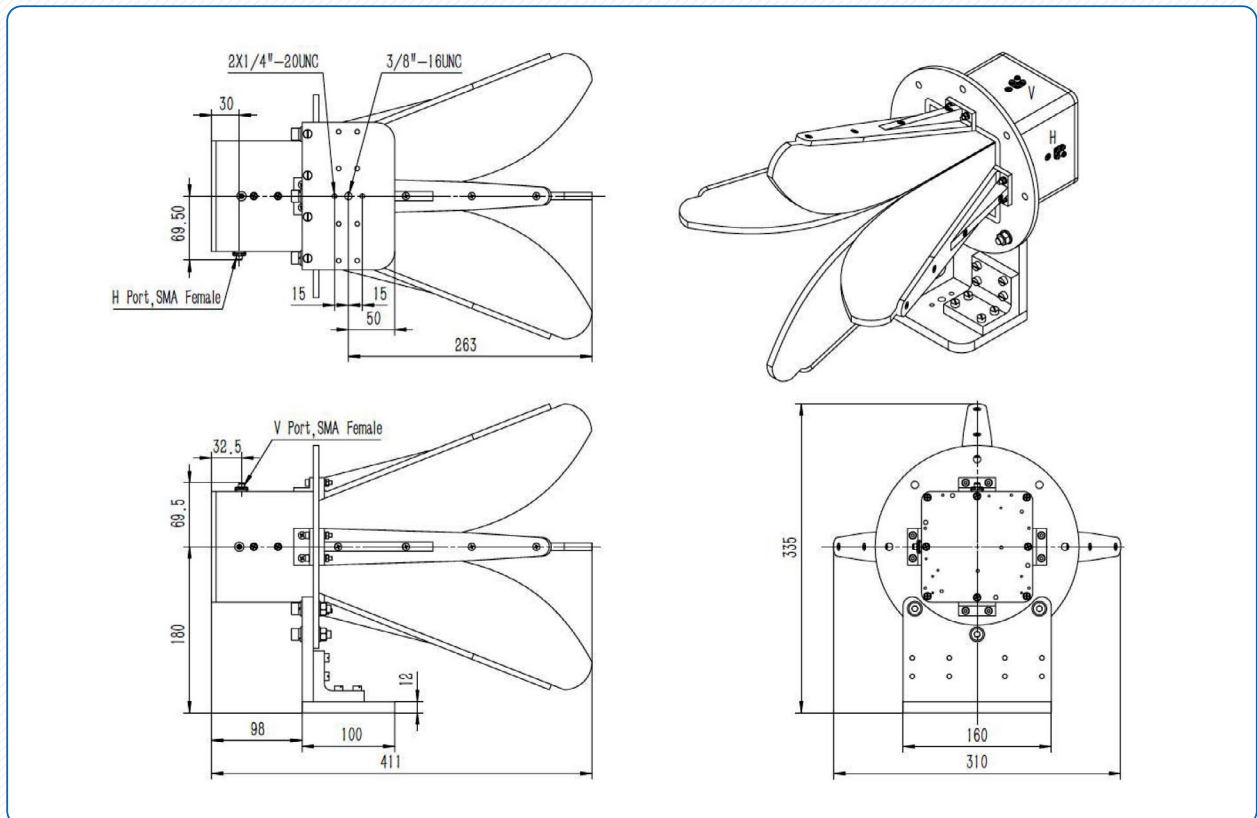
Frequency (GHz)	Horizontal		Vertical	
	Gain (dBi)	AF (dB/m)	Gain (dBi)	AF (dB/m)
0.7	3.27	23.84	3.81	23.30
0.8	3.38	24.89	5.41	22.86
0.9	7.54	21.75	7.22	22.08
1.0	8.58	21.63	7.29	22.92
1.5	9.29	24.45	9.48	24.25
2.0	10.41	25.82	9.97	26.26
2.5	9.28	28.89	10.00	28.17
3.0	10.15	29.61	9.87	29.88
3.5	8.59	32.50	8.30	31.85
4.0	10.55	31.71	10.40	31.85
4.5	10.12	33.15	9.67	33.61
5.0	10.40	33.79	10.65	33.54
5.5	13.07	31.95	12.42	32.60
6.0	11.67	34.11	10.41	35.36

OUTLINE DRAWING (SIZE: MM)

With SMA-Female Output



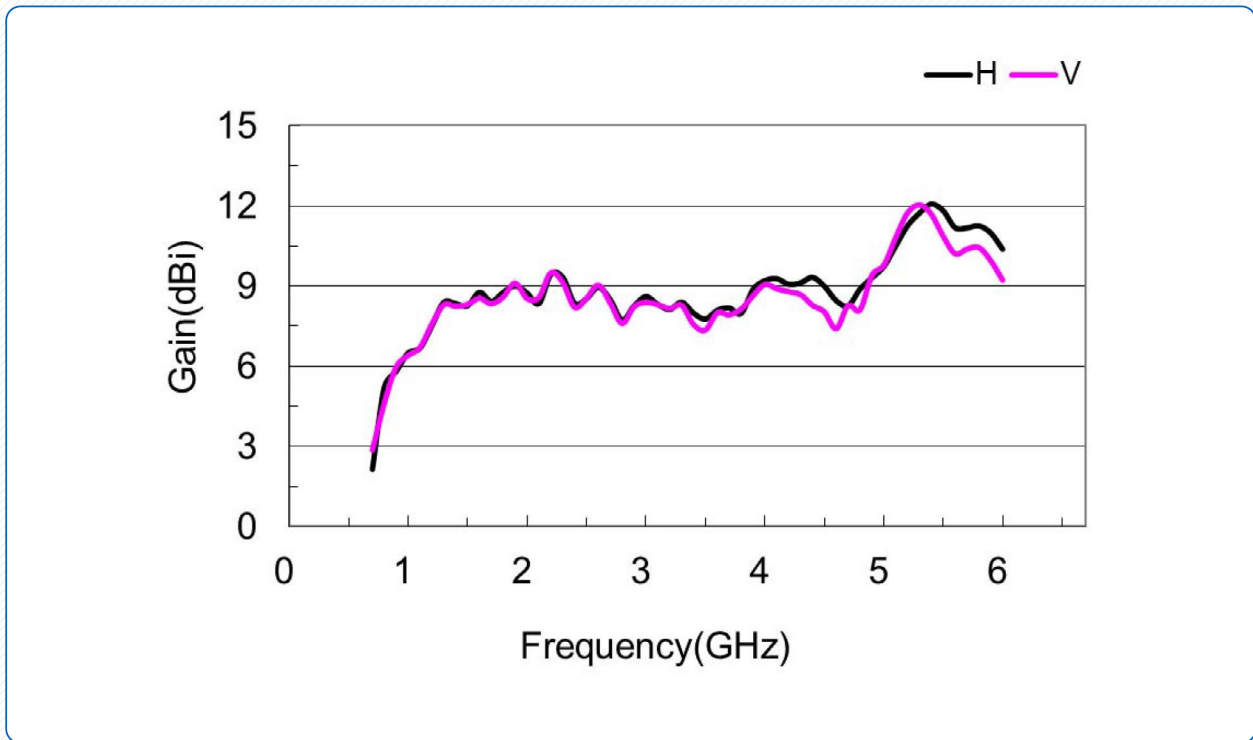
With SMA-Female Output & L Type Mounting Bracket



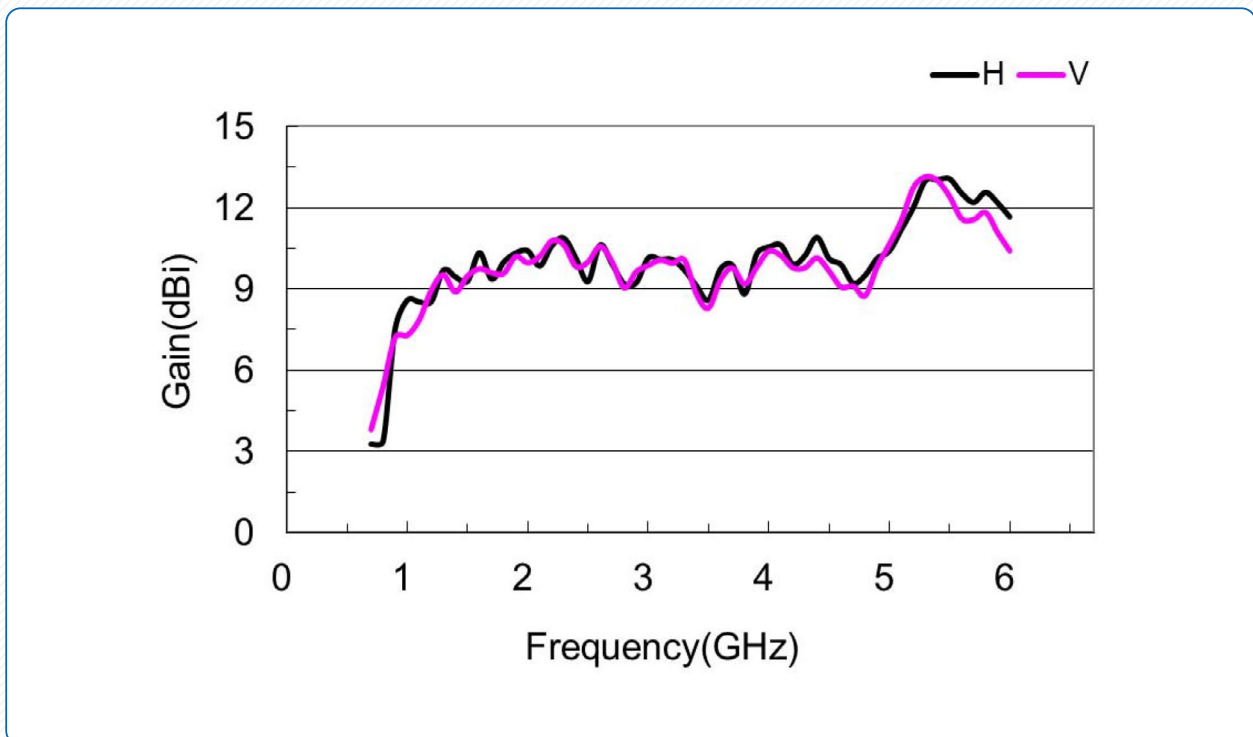
TEST RESULTS

1. Gain

Gain at 1 m

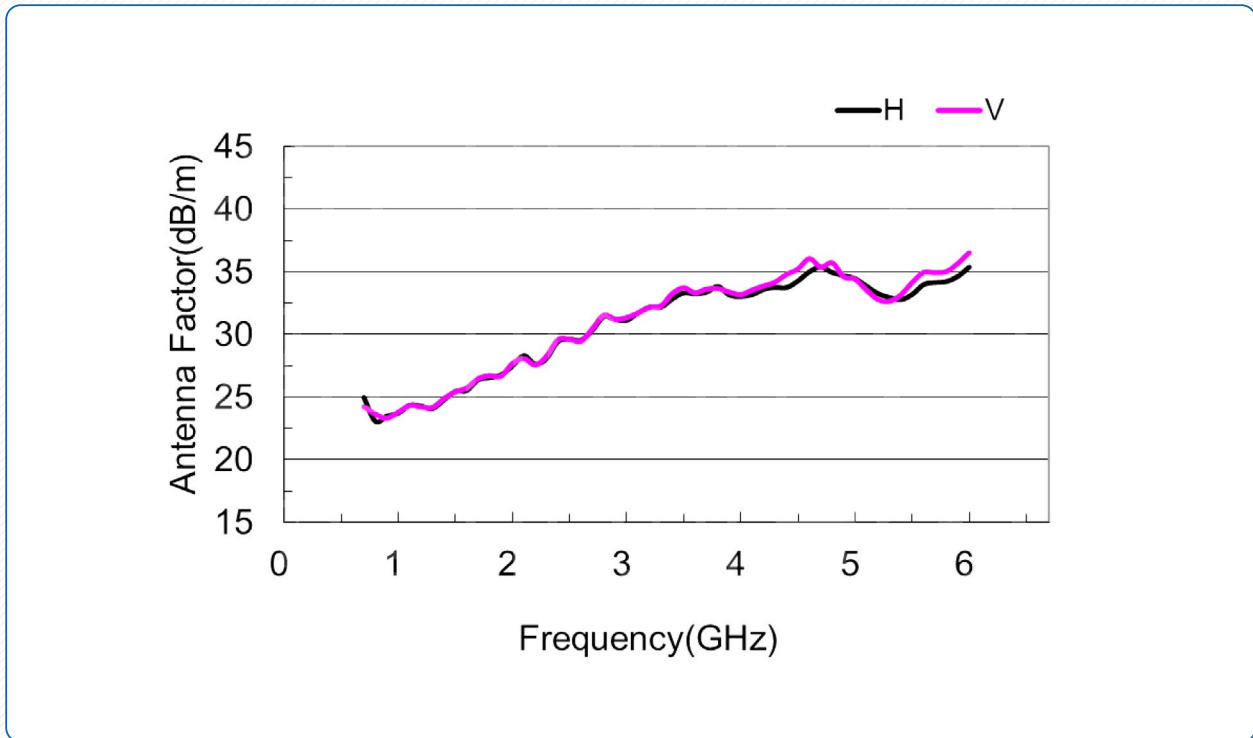


Gain at 3 m

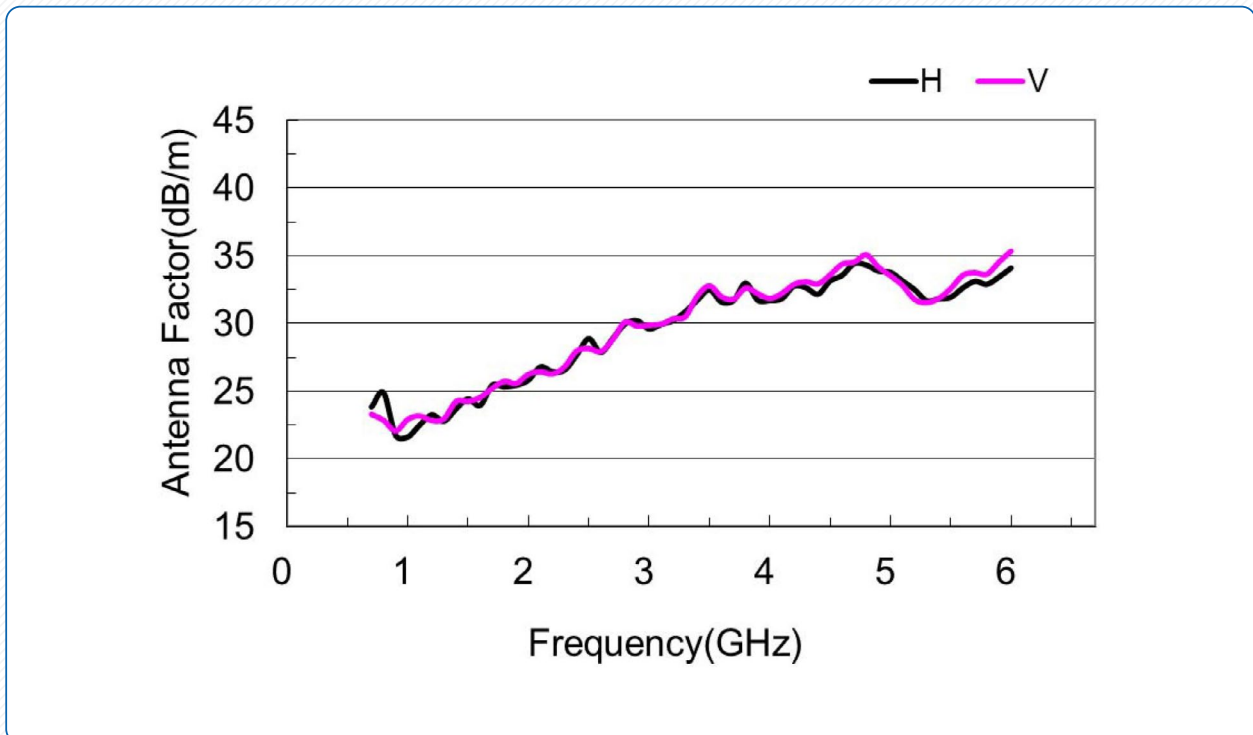


2. Antenna Factor

AF at 1 m

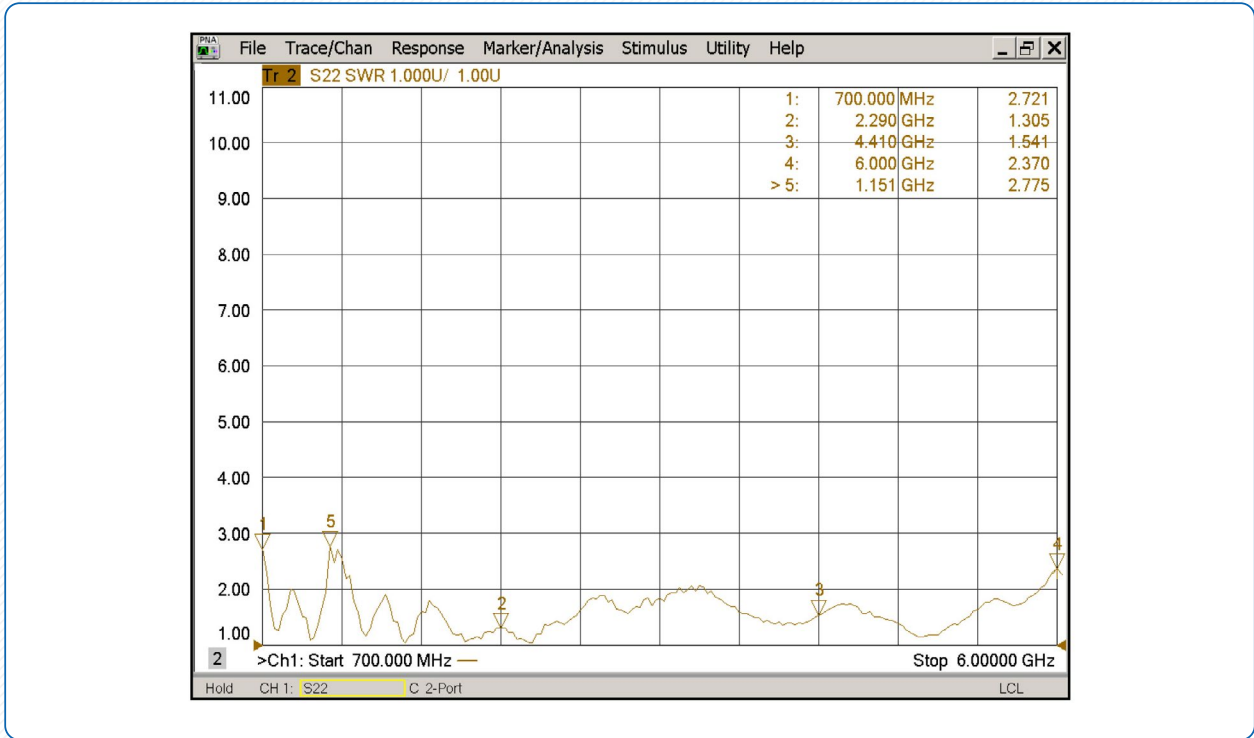


AF at 3 m

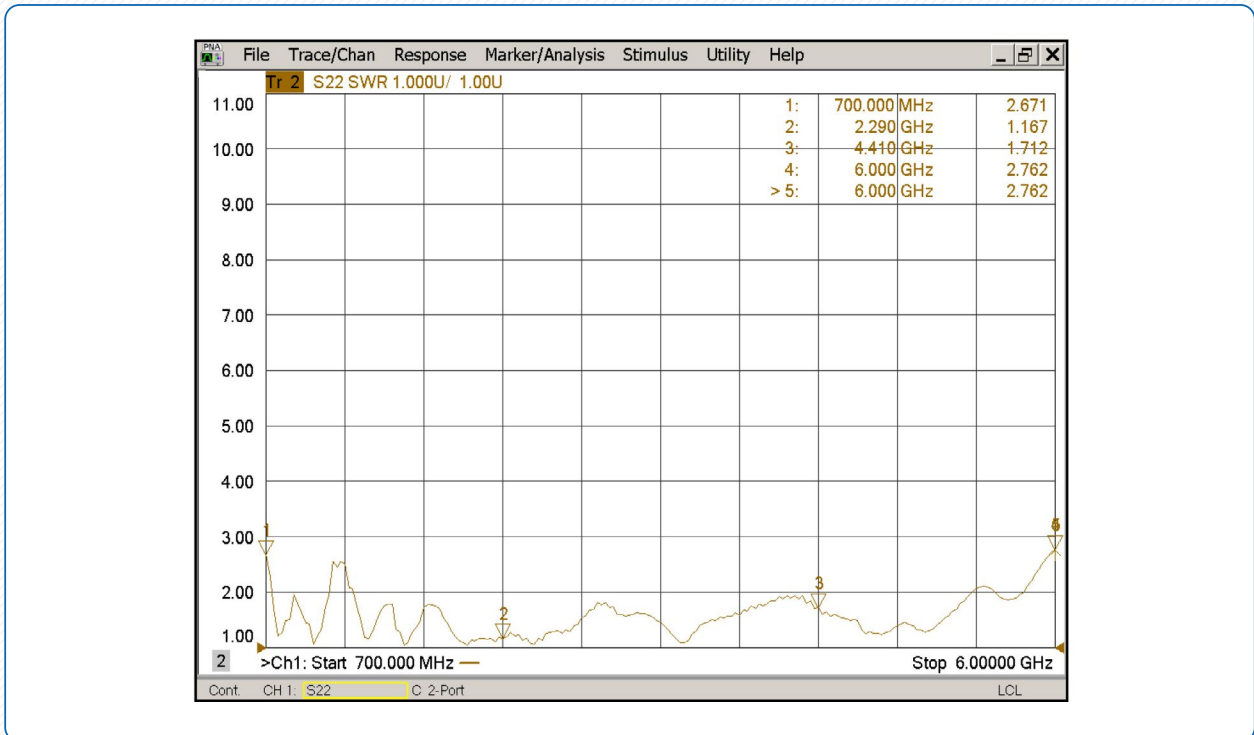


3. VSWR

H Port

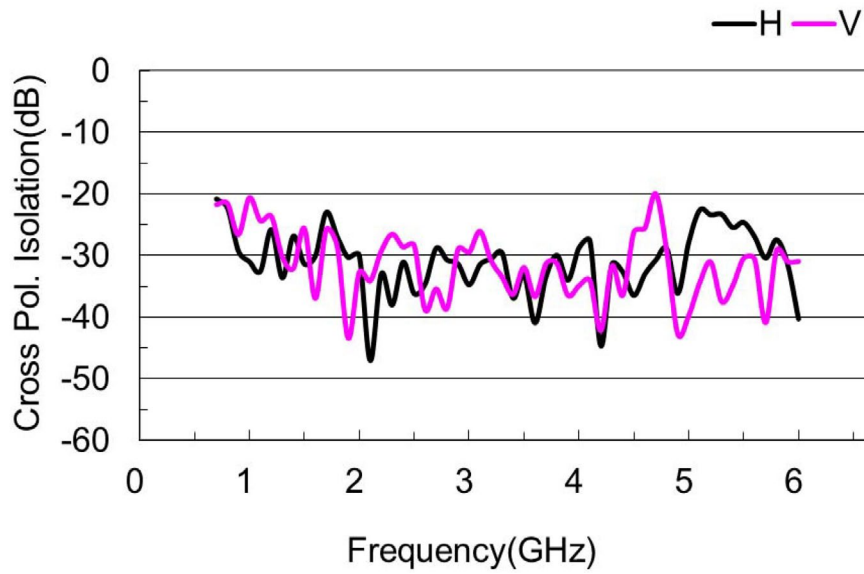


V Port

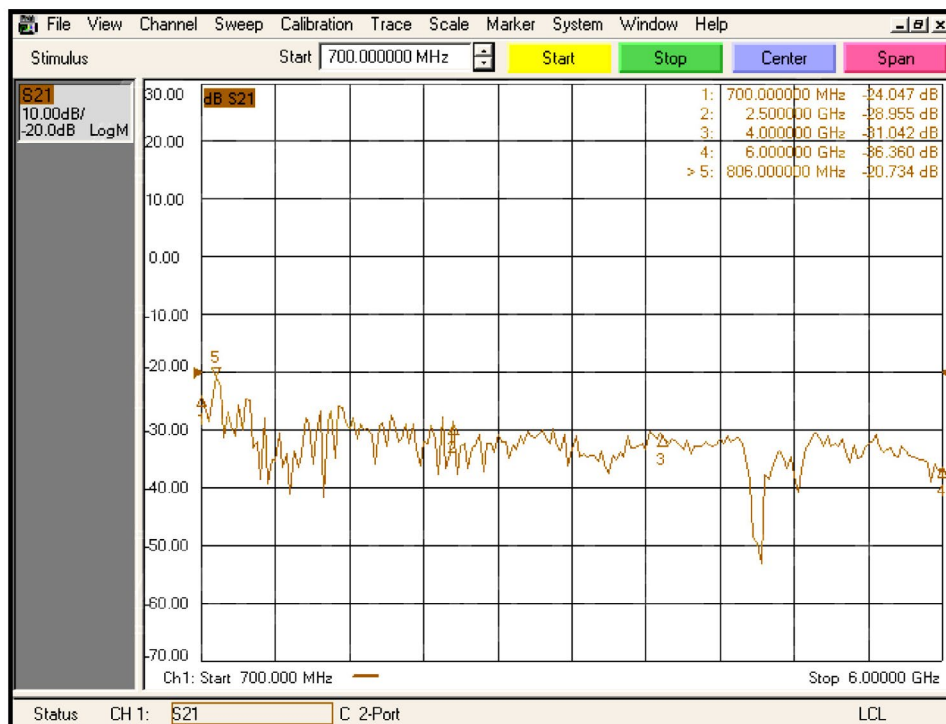


4. Cross Polarization Isolation

H Port

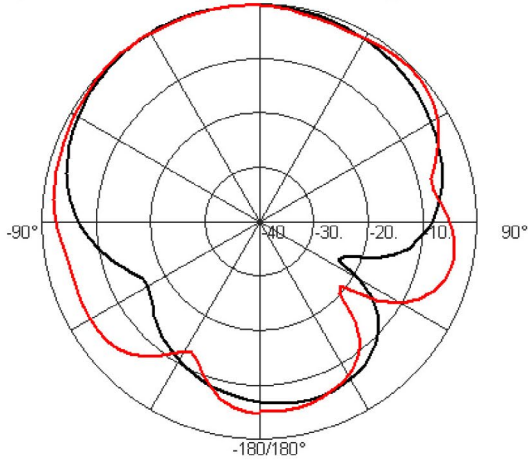


5. Port to Port Isolation

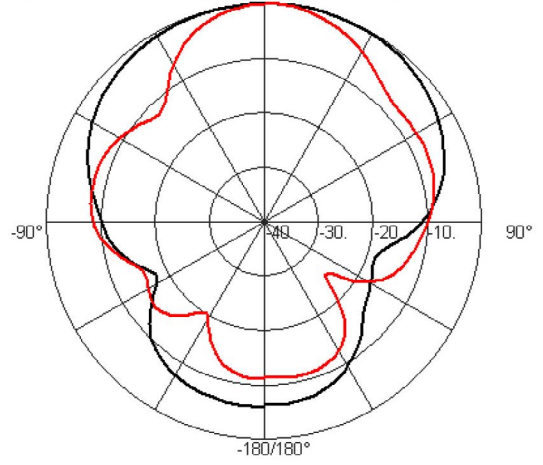


6. Pattern

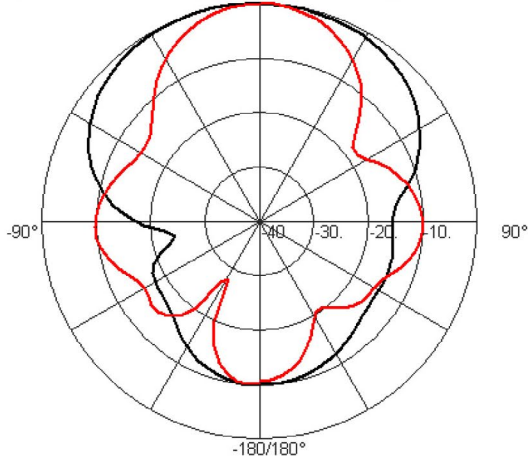
Freq:0.700GHz BW_E:126.35° BW_H:154.79°



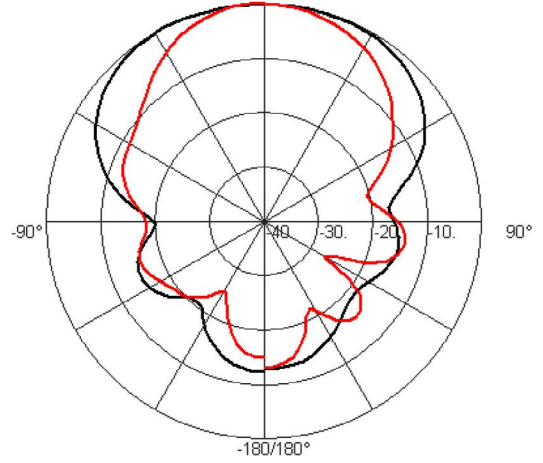
Freq:0.800GHz BW_E:116.07° BW_H:46.24°



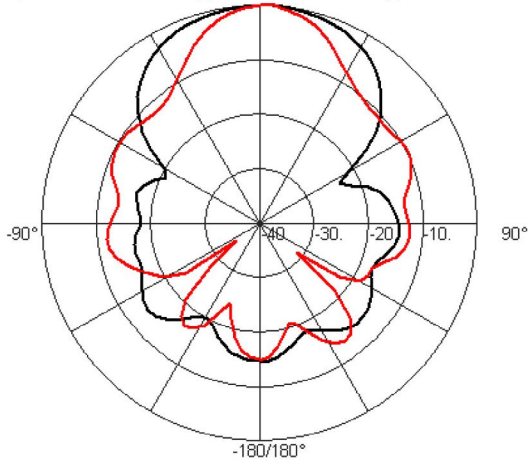
Freq:0.900GHz BW_E:101.65° BW_H:44.01°



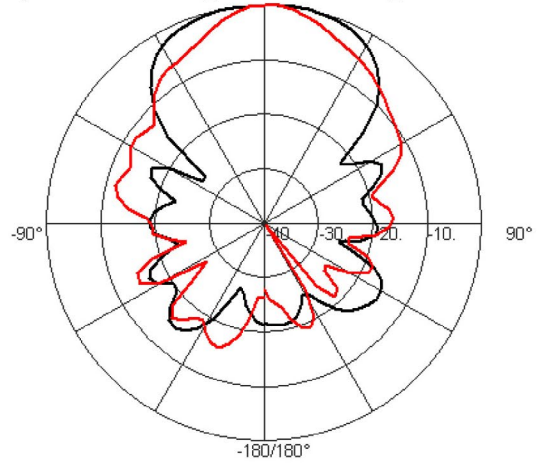
Freq:1.000GHz BW_E:104.42° BW_H:53.52°



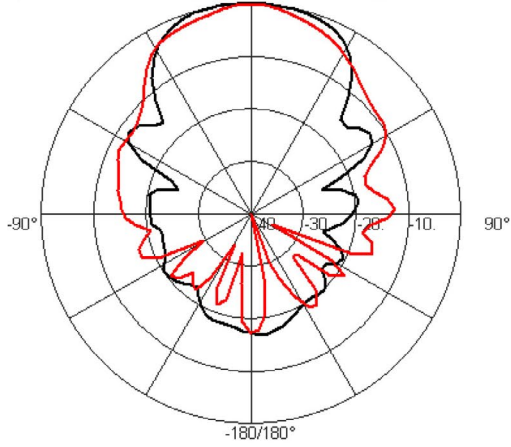
Freq:1.500GHz BW_E:61.18° BW_H:32.16°



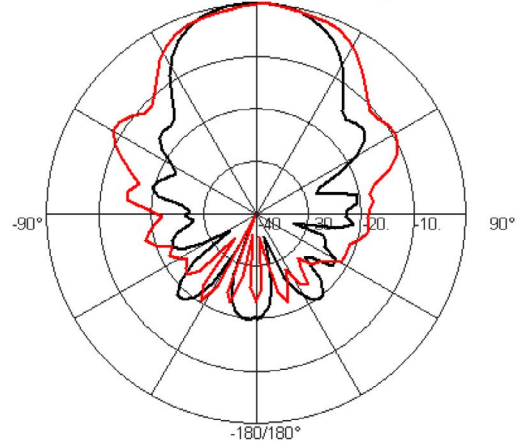
Freq:2.000GHz BW_E:63.25° BW_H:33.29°



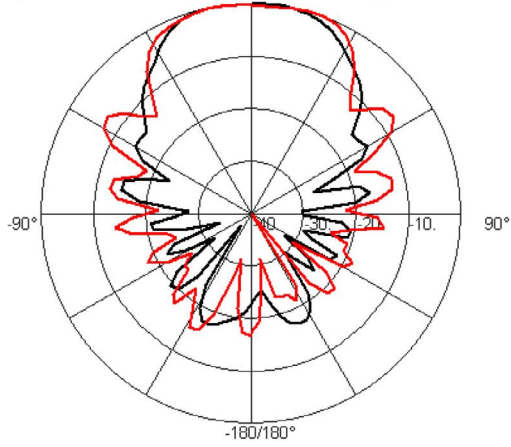
Freq:2.500GHz BW_E:56.17° BW_H:48.81°



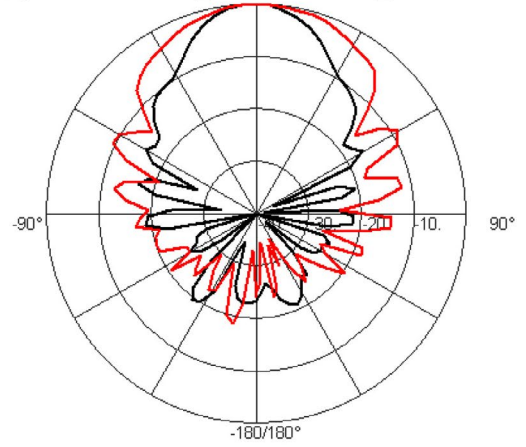
Freq:3.000GHz BW_E:43.15° BW_H:54.88°



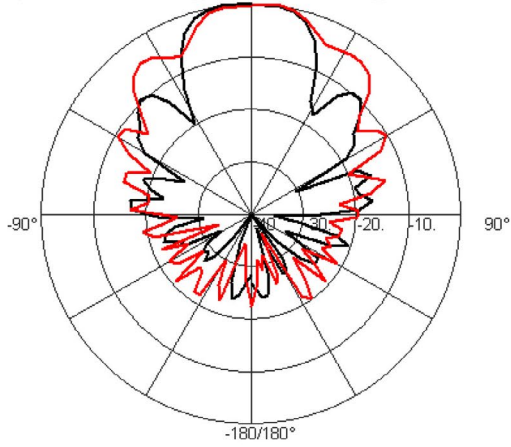
Freq:3.500GHz BW_E:53.17° BW_H:61.19°



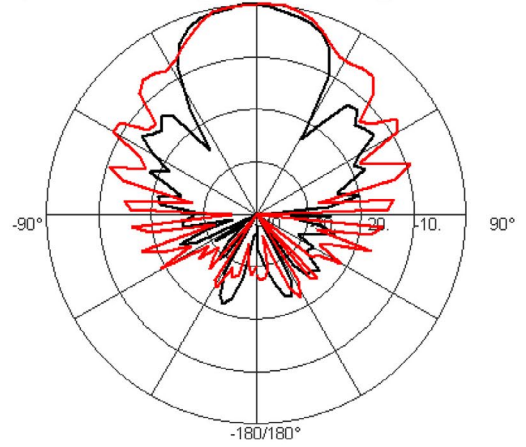
Freq:4.000GHz BW_E:31.64° BW_H:56.33°



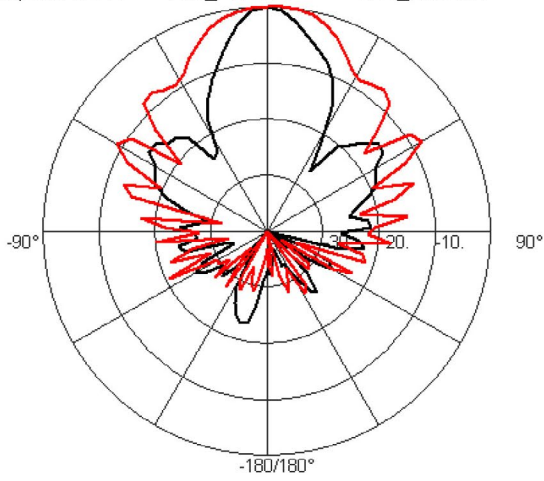
Freq:4.500GHz BW_E:36.85° BW_H:35.32°



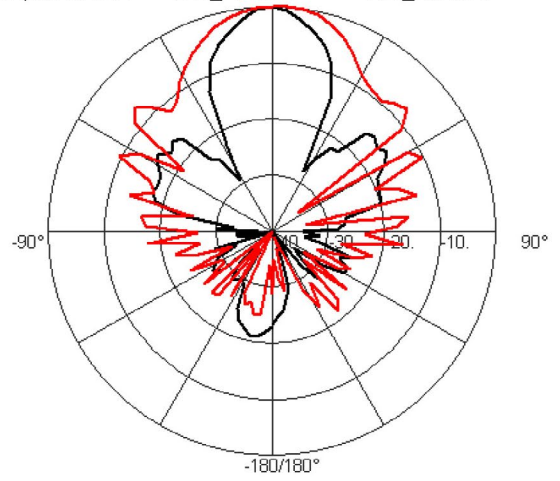
Freq:5.000GHz BW_E:40.35° BW_H:38.43°



Freq:5.500GHz BW_E:17.46° BW_H:35.92°



Freq:6.000GHz BW_E:20.52° BW_H:36.94°



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