



RF-LAMBDA

The power beyond expectations

RWDRHA1G12

1~12GHz Wideband Double Ridge Horn Antenna

1~12GHz Coaxial Horn Quad-Ridge Antenna Double Line Polarization



Summary:

- . High power operational up to 100W CW
- . compacted package in high gain cross band.
- . Wide bandwidth, flat frequency response
- . MIL-E-5400 standard
- . Customized unit is available upon request.

$$G = G_0 - \Delta G$$

G = 2~18GHz Gain of Polarization Horn

G_0 = the standard gain of the polarization horn

$$\Delta G = P_1 - P_2$$

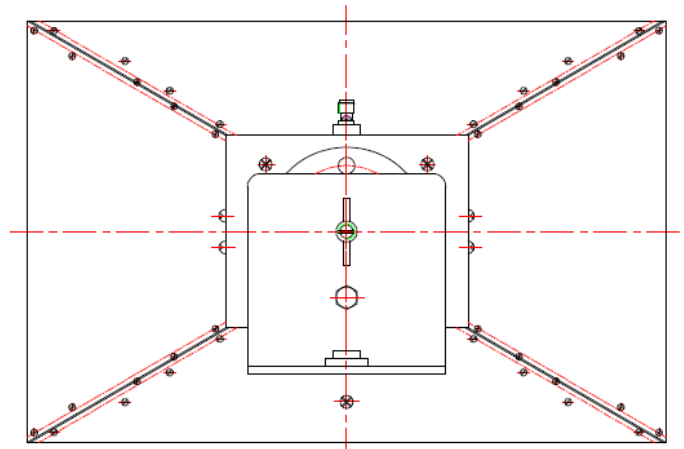
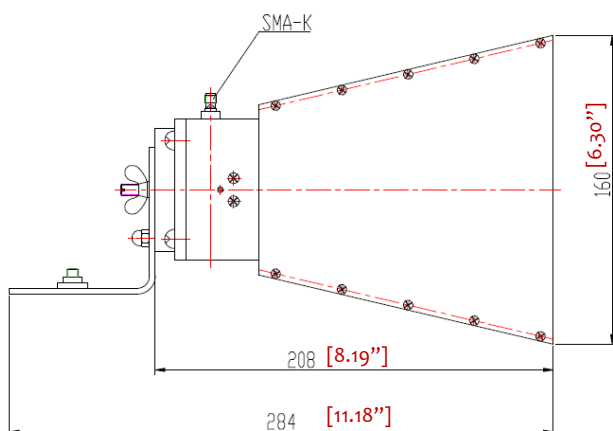
P_1 = the receiving power level of standard horn

P_2 = the receiving power level of 2~18GHz Polarization Horn

Electrical and Environmental Specifications:

Frequency Range:	1.0-12.0GHz
Antenna Gain:	10dB (typ.)
VSWR:	2.5 : 1 max.
Beam width (Avg)	E-Plane: 54° H-Plane: 49°
Connector:	SMA-Female
Impedance:	50 ohm
Weight :	1.8 Kg
Operational Temp. :	-55°C~+85° C
Storage Temp. :	-55°C~+100° C

Outline Drawing:



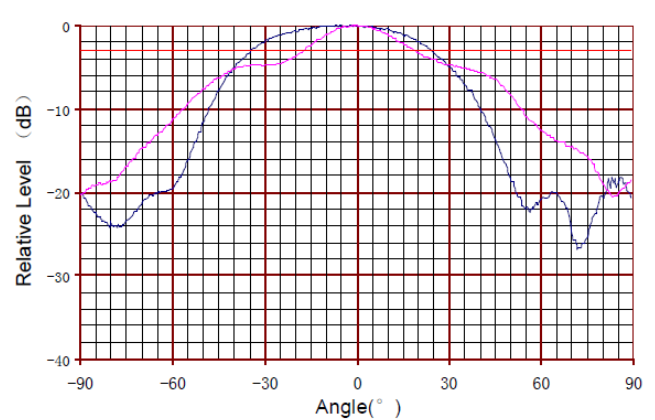
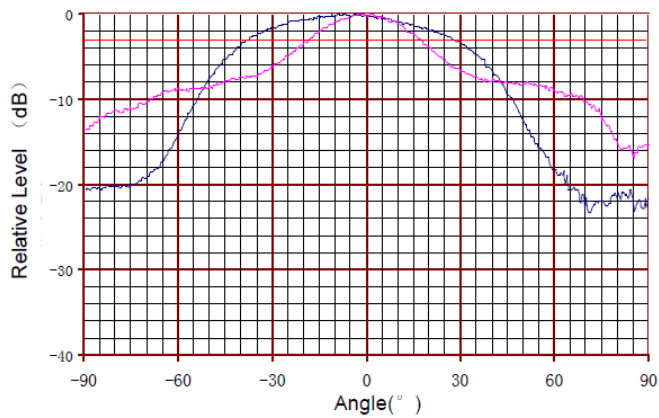
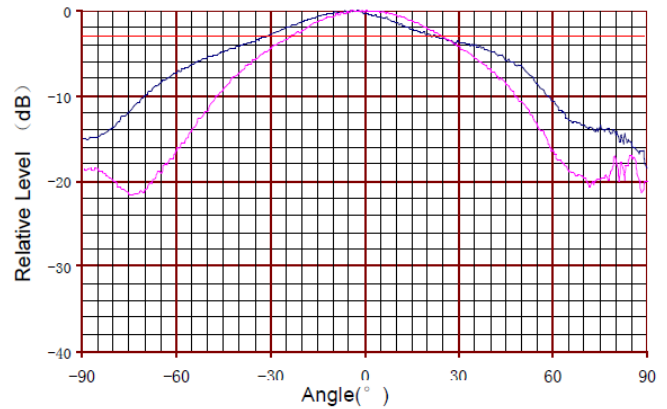
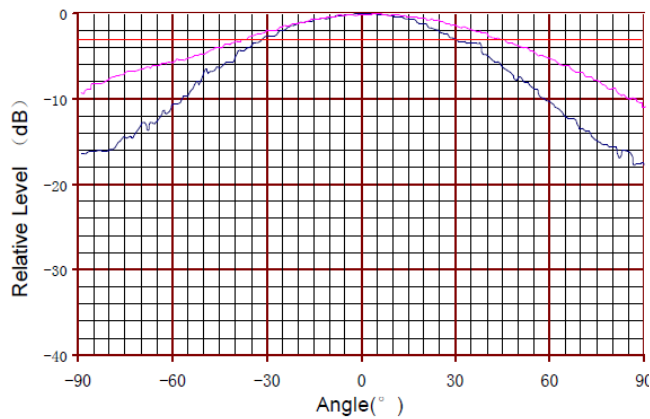
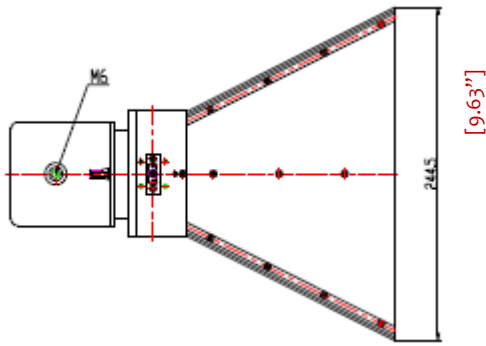


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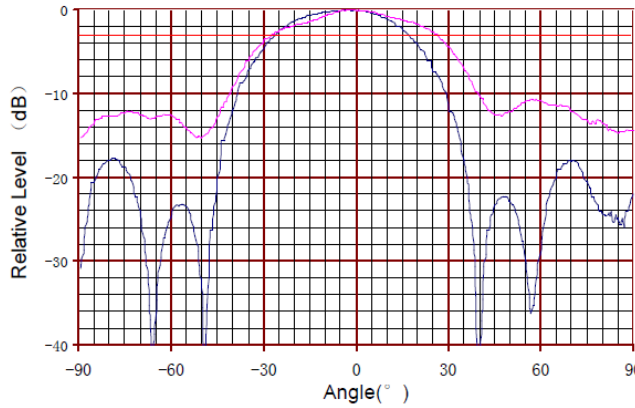


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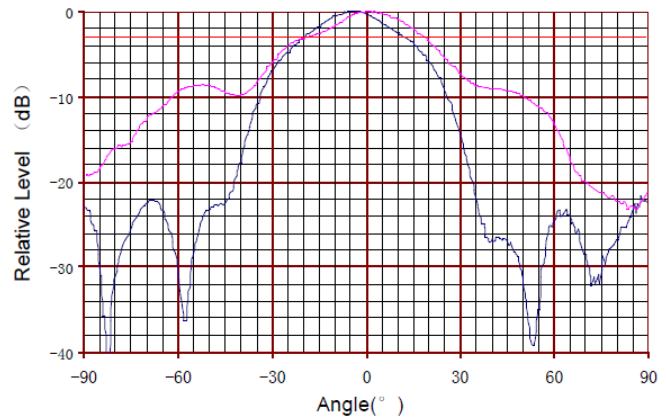
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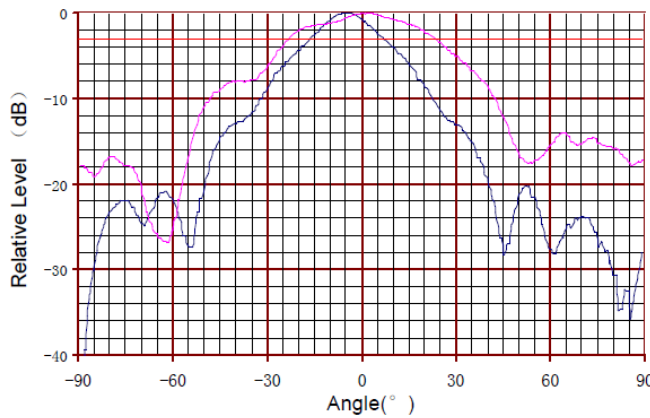
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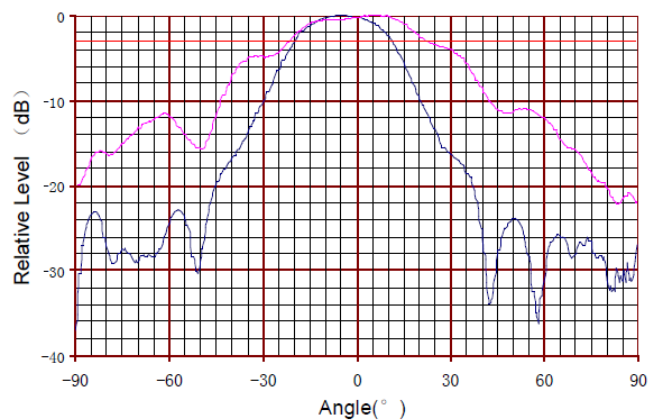
Freq=5.0GHz Gain:11.46dB
 $2\theta_{0.5}=43^\circ$ — H-Plane — E-Plane $2\theta_{0.5}=54^\circ$



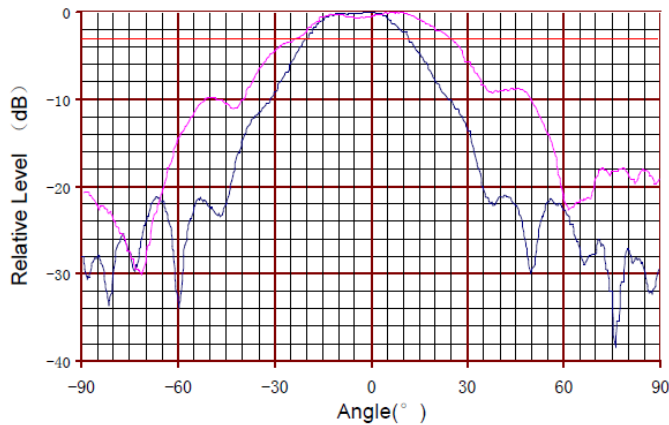
Freq=6.0GHz Gain:12.68dB
 $2\theta_{0.5}=31^\circ$ — H-Plane — E-Plane $2\theta_{0.5}=39^\circ$



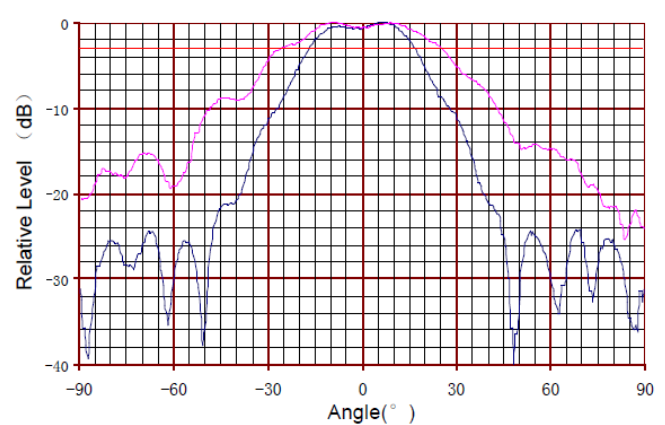
Freq=7.0GHz Gain:12.87dB
 $2\theta_{0.5}=24^\circ$ — H-Plane — E-Plane $2\theta_{0.5}=48^\circ$



Freq=8.0GHz Gain:12.09dB
 $2\theta_{0.5}=31^\circ$ — H-Plane — E-Plane $2\theta_{0.5}=45^\circ$



Freq=9.0GHz Gain:11.79dB
 $2\theta_{0.5}=32^\circ$ — H-Plane — E-Plane $2\theta_{0.5}=48^\circ$



Freq=10.0GHz Gain:12.76dB
 $2\theta_{0.5}=35^\circ$ — H-Plane — E-Plane $2\theta_{0.5}=50^\circ$



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