The EMCShop

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Calibration Laboratory
Cert. 5518.01

MODEL NUMBER:
SGHA2.6G

Standard Gain Horn Antenna Operating From 1.7GHz to 2.6GHz With a Nominal 15dB Gain With N Type Female Connector

DESCRIPTION

The Standard Gain Horn Antenna SGHA2.6G operates from 1.7 to 2.6 GHz with a nominal 15 dB gain and low VSWR 1.25:1. The model SGHA2.6G has a uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 300W continuously and 3000W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. It is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements, and other applications.

TECHNICAL SPECIFICATION

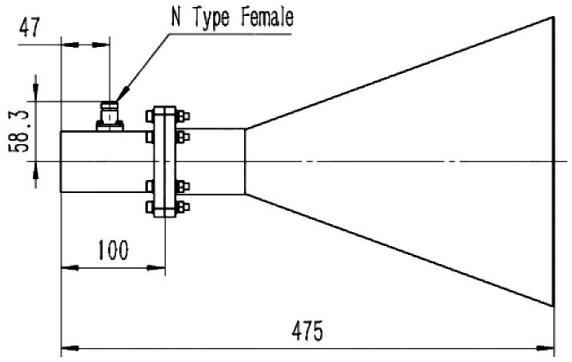
ELECTRICAL	
Frequency, Min (GHz)	1.7
Frequency, Max (GHz)	2.6
Waveguide Type	Rectangular
Waveguide Size EIA WR	WR430
Gain, Typ (dBi)	15
Polarization	Linear
3dB Beamwidth, E-Plane, Typ (Deg.)	26
3dB Beamwidth, H-Plane, Typ (Deg.)	28
Cross Pol. Isolation, Typ (dB)	40
VSWR, Typ	1.25:1
Impedance, (Ohm)	50
Power Handling, CW, (W)	300
Power Handling, Peak, (W)	3000
INTERFACE	
Output Type	Coaxial
Connector	N Type
Connector Gender	Female
MECHANICAL SPECIFICATION	
Figure	C Type
Body Material	Al
Finish	Chemical Conversion Coating, Gray Paint
Size, W (mm)	375
Size, H (mm)	279
Size, L (mm)	475
Weight, (kg)	3.06

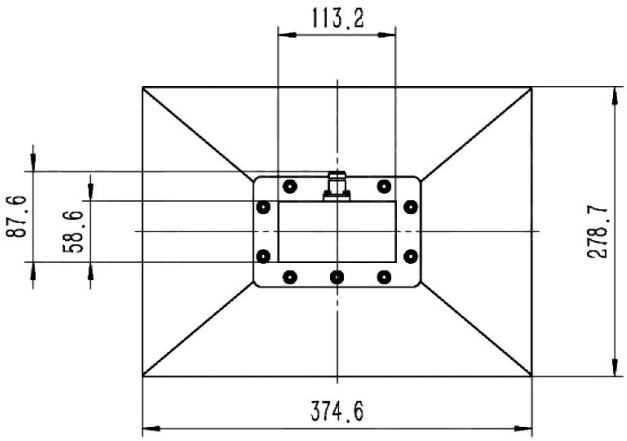
ADDITIONAL INFORMATION

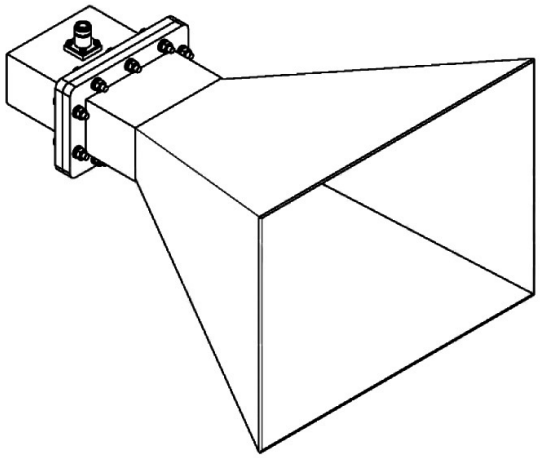
Application	General Purpose Indoor & Outdoor, Fixed
Solution for	• Gain Reference • Antenna Measurement • Reflector Feed • Far-field Measurement • System Intergration • Material Measurement

OUTLINE DRAWING

N-Female Output







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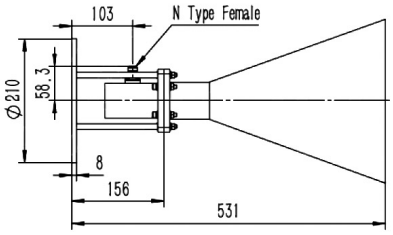
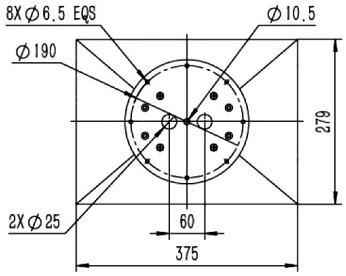
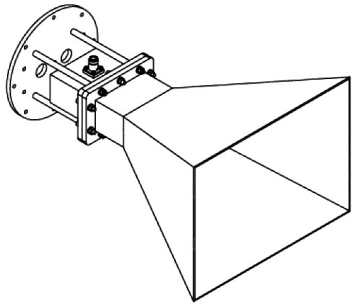
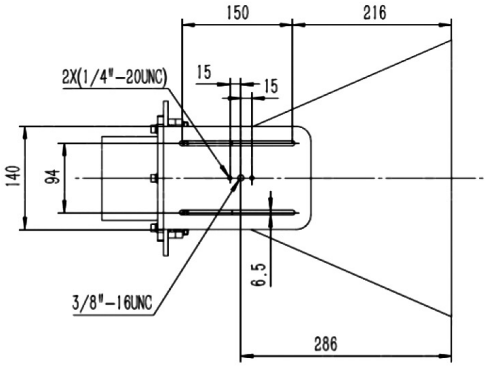
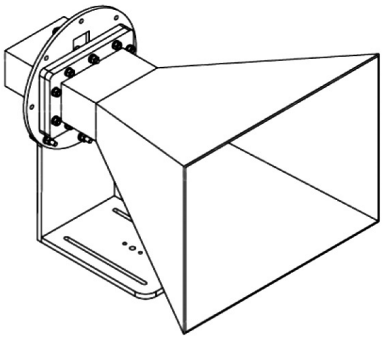
N-Female Output with Round Mounting Bracket

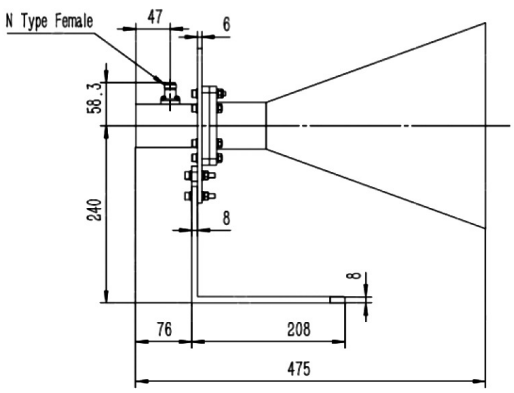


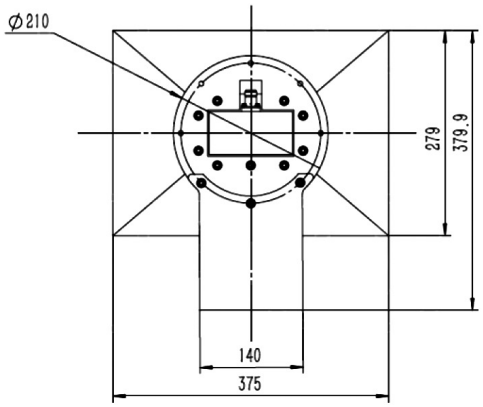




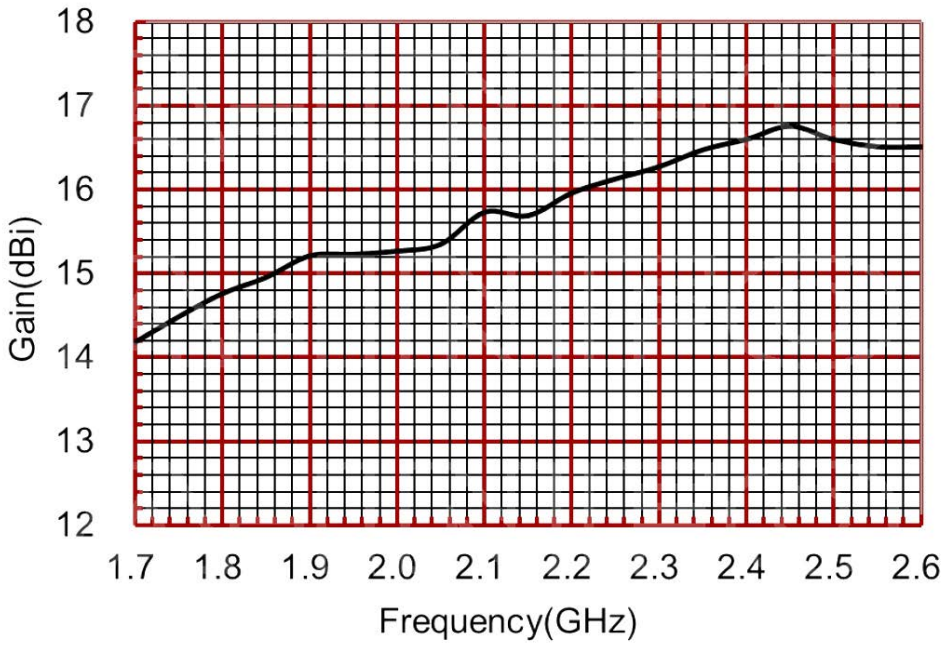




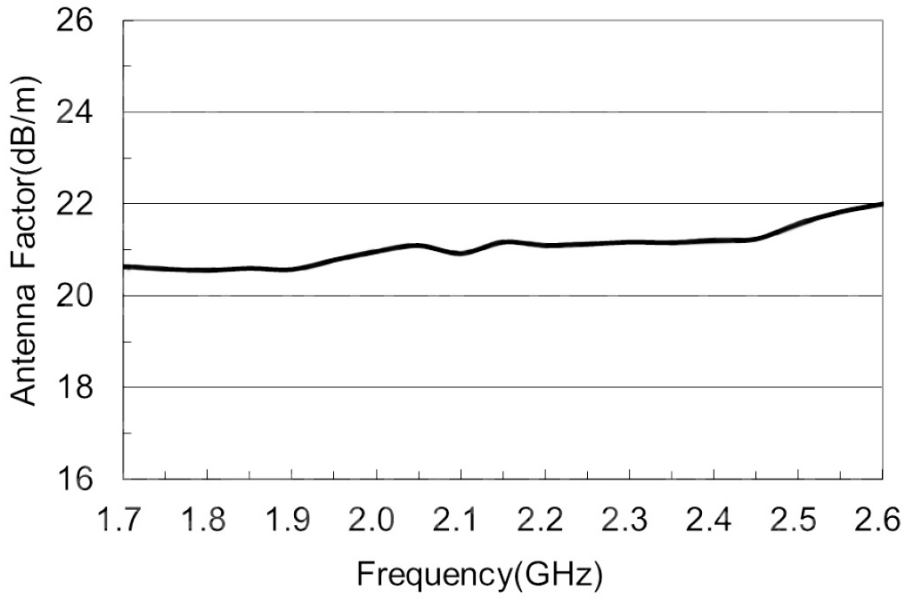




Gain



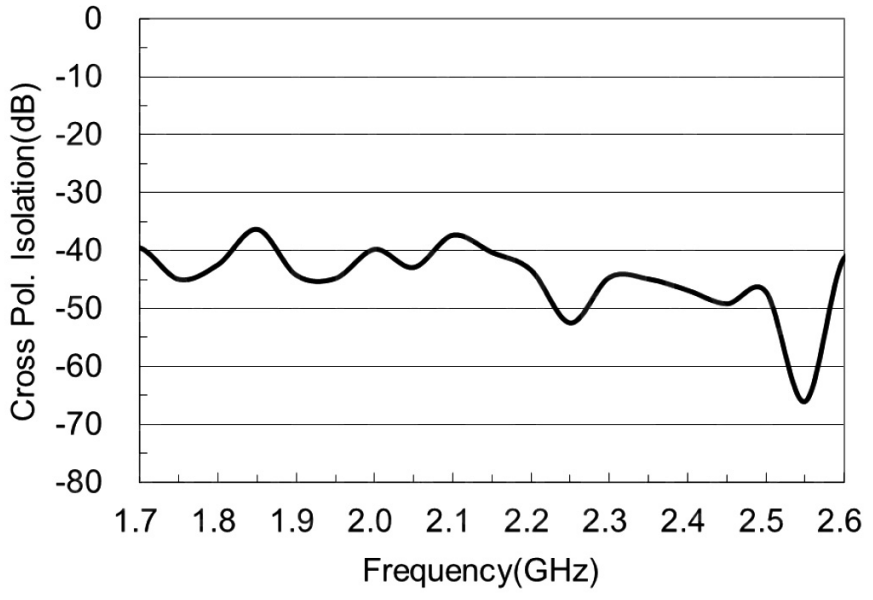
Antenna Factor



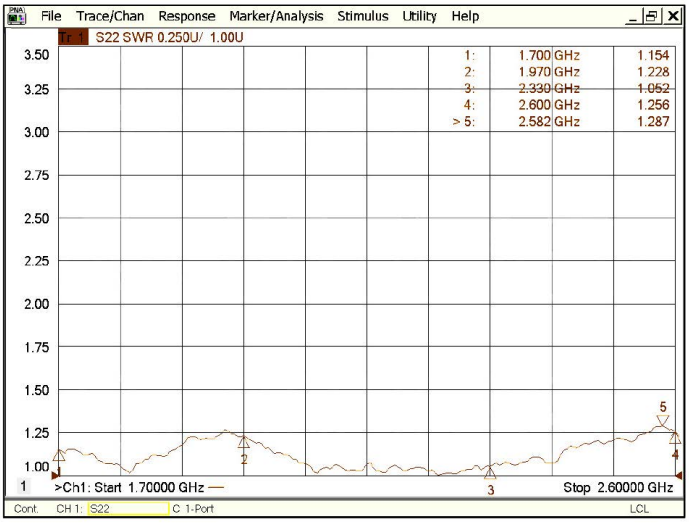
ANTENNA FACTOR (TABLE)

Frequency(GHz)	Gain (dBi)	Antenna Factor (dB/m)
1.70	14.18	20.64
1.75	14.49	20.58
1.80	14.76	20.55
1.85	14.95	20.60
1.90	15.21	20.57
1.95	15.23	20.78
2.00	15.27	20.96
2.05	15.35	21.10
2.10	15.73	20.92
2.15	15.69	21.17
2.20	15.96	21.10
2.25	15.96	21.10
2.25	16.13	21.13
2.30	16.27	21.17
2.35	16.48	21.16
2.40	16.60	21.21
2.45	16.76	21.24
2.50	16.60	21.57
2.55	16.51	21.83
2.60	16.51	22.00

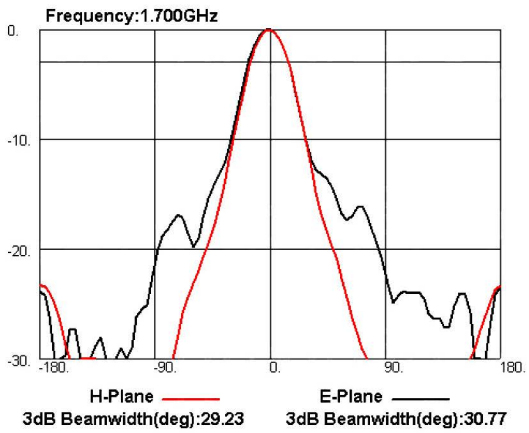
CROSS POLARIZATION ISOLATION



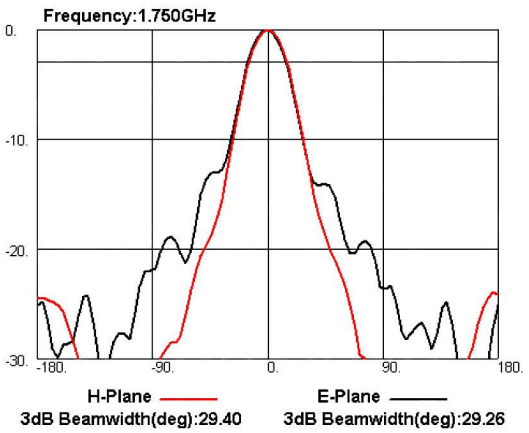
VSWR



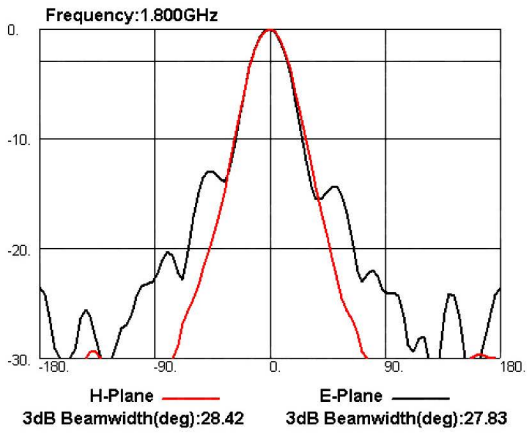
Pattern



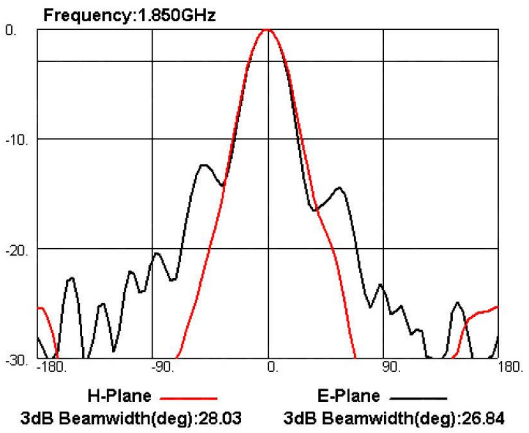
3dB Beamwidth(deg):29.23 3dB Beamwidth(deg):30.77



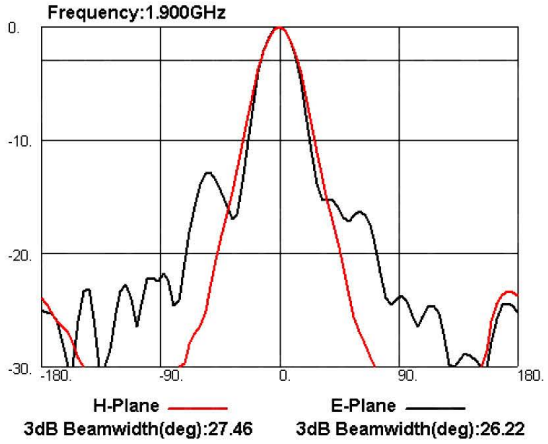
3dB Beamwidth(deg):29.40 3dB Beamwidth(deg):29.26

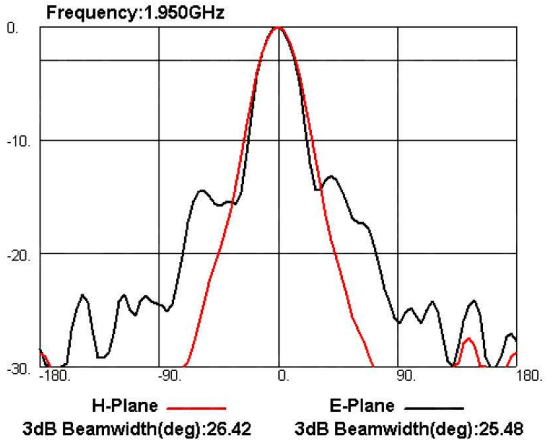


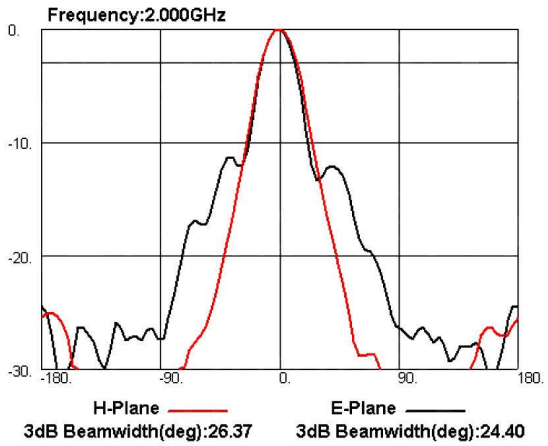
3dB Beamwidth(deg):28.42 3dB Beamwidth(deg):27.83

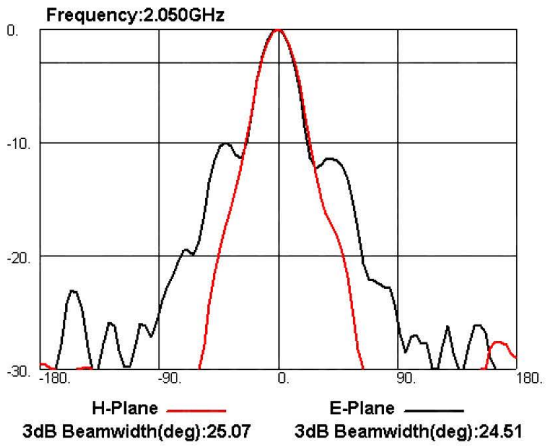


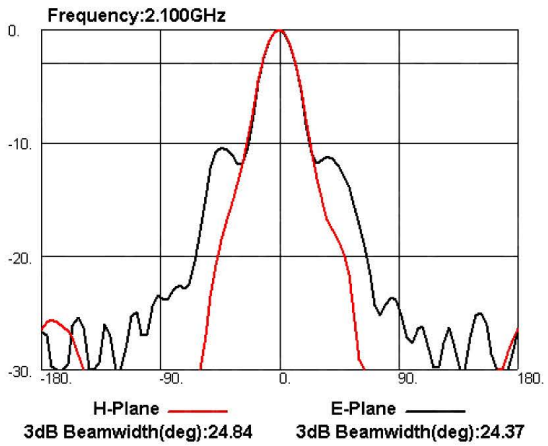
3dB Beamwidth(deg):28.03 3dB Beamwidth(deg):26.84

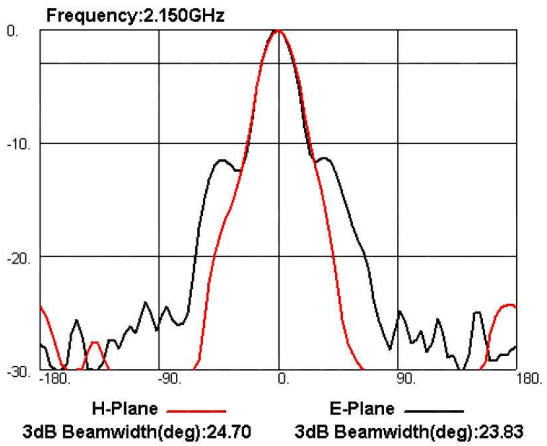

Frequency:1.900GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):27.46
3dB Beamwidth(deg):26.22

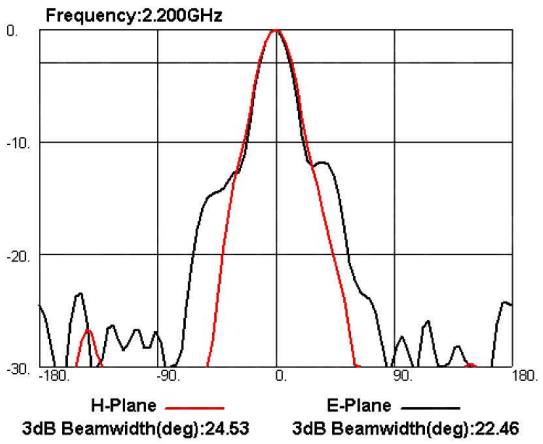

Frequency:1.950GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):26.42
3dB Beamwidth(deg):25.48


Frequency:2.000GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):26.37
3dB Beamwidth(deg):24.40

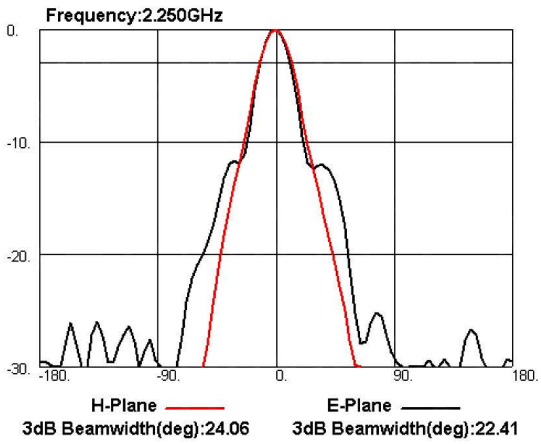

Frequency:2.050GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):25.07
3dB Beamwidth(deg):24.51


Frequency:2.100GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):24.84
3dB Beamwidth(deg):24.37

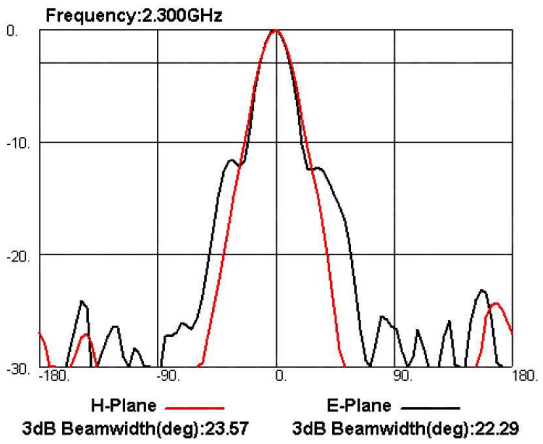

Frequency:2.150GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):24.70
3dB Beamwidth(deg):23.83



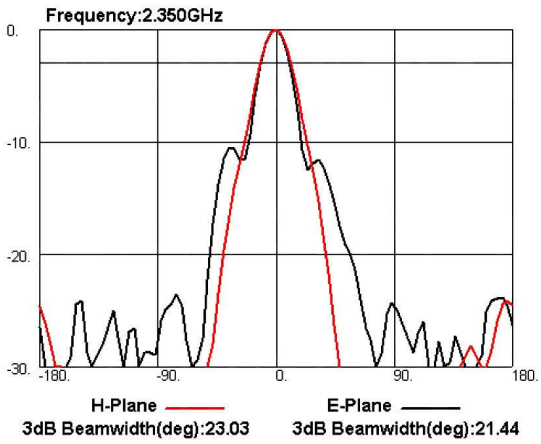
3dB Beamwidth(deg):24.53 3dB Beamwidth(deg):22.46



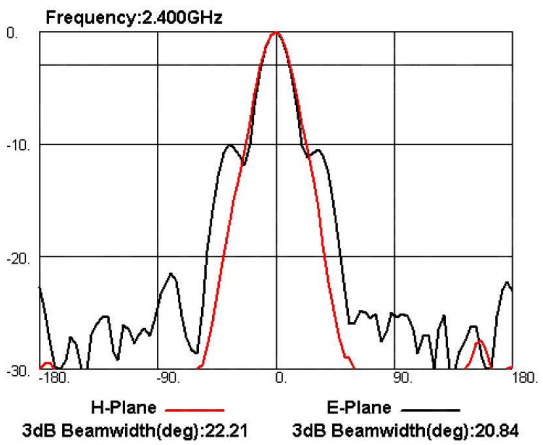
3dB Beamwidth(deg):24.06 3dB Beamwidth(deg):22.41



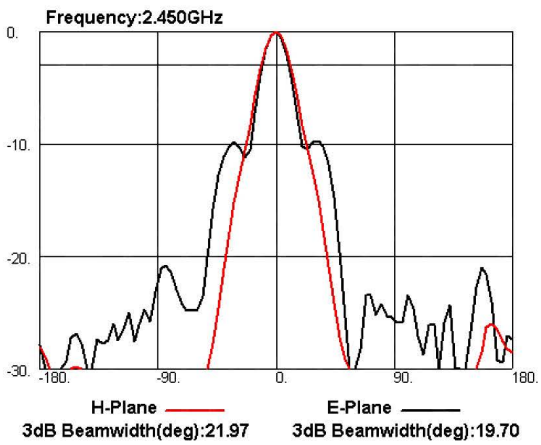
3dB Beamwidth(deg):23.57 3dB Beamwidth(deg):22.29



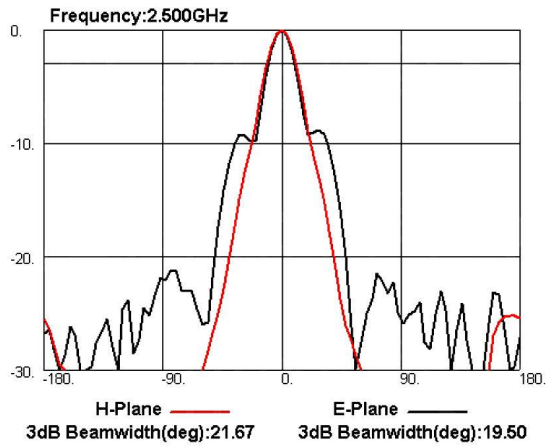
3dB Beamwidth(deg):23.03 3dB Beamwidth(deg):21.44

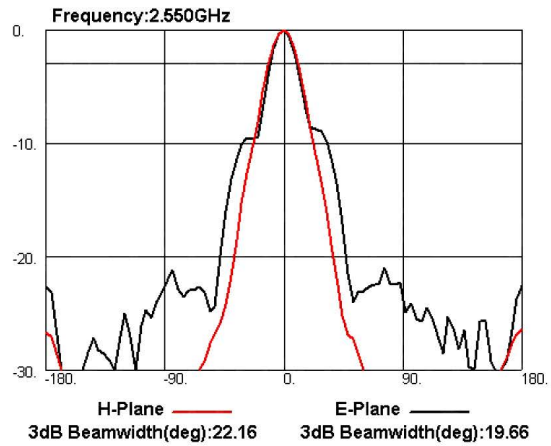


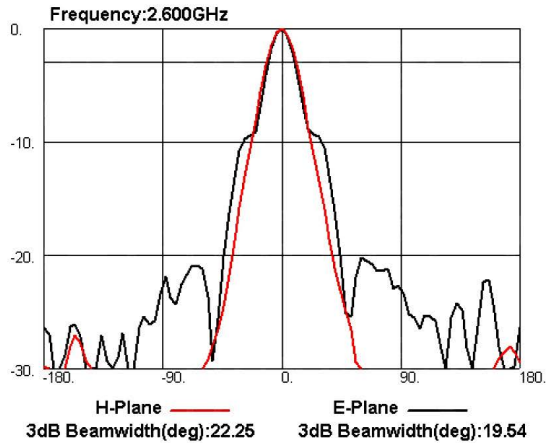
3dB Beamwidth(deg):22.21 3dB Beamwidth(deg):20.84



3dB Beamwidth(deg):21.97 3dB Beamwidth(deg):19.70


Frequency:2.500GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):21.67
3dB Beamwidth(deg):19.50


Frequency:2.550GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):22.16
3dB Beamwidth(deg):19.66


Frequency:2.600GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth(deg):22.25
3dB Beamwidth(deg):19.54