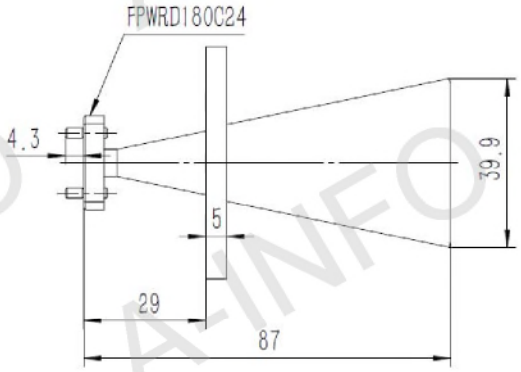
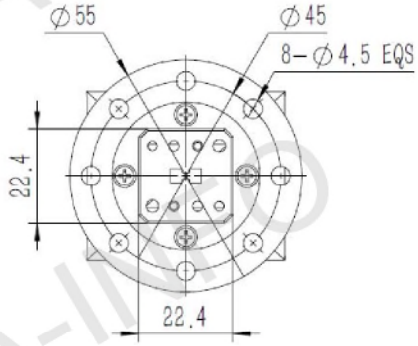
Technical Specification

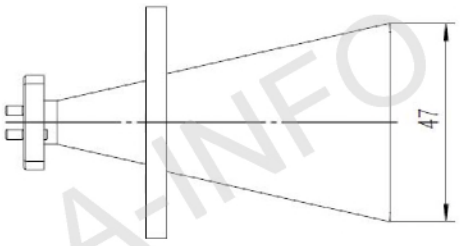
Frequency Range(GHz)	18 - 40	
Gain(dBi)	20 Typ.	
Polarization	Linear	
3dB Beamwidth(deg)	E Plane:	23 - 10
	H Plane:	26 - 12
Cross Pol. Isolation(dB)	35 Typ.	
VSWR	1.5:1 Typ.	
Output	A Type:	FPWRD180C24
	C Type:	2.92mm-Female or 2.4mm-Female
Power Handling(W)	2.92mm-F:	20 Max. CW
	2.4mm-F:	10 Max. CW
Material	Cu	
Size(mm)	A Type:	55 x 55 x 87
	C Type:	55 x 55 x 113
Net Weight(Kg)	A Type:	0.21 Around
	C Type:	0.25 Around

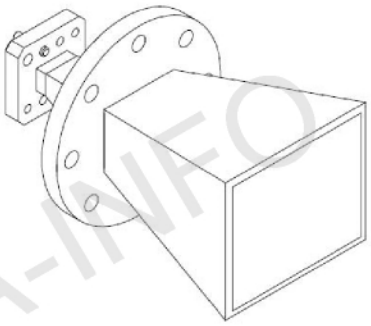
Outline Drawing (Size: mm)

A Type(With FPWRD180C24 Output)



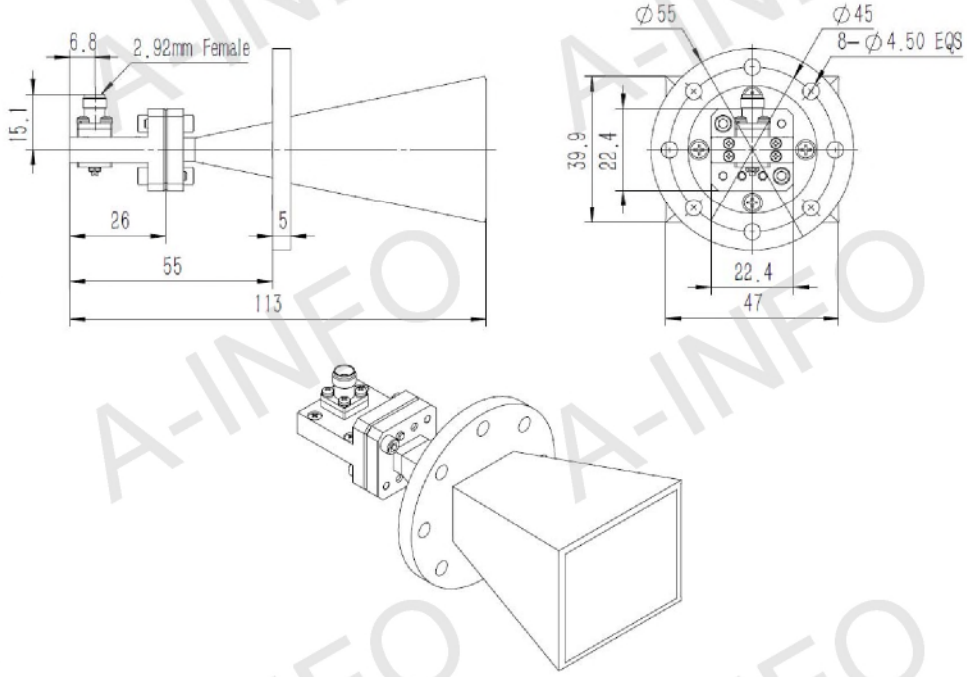






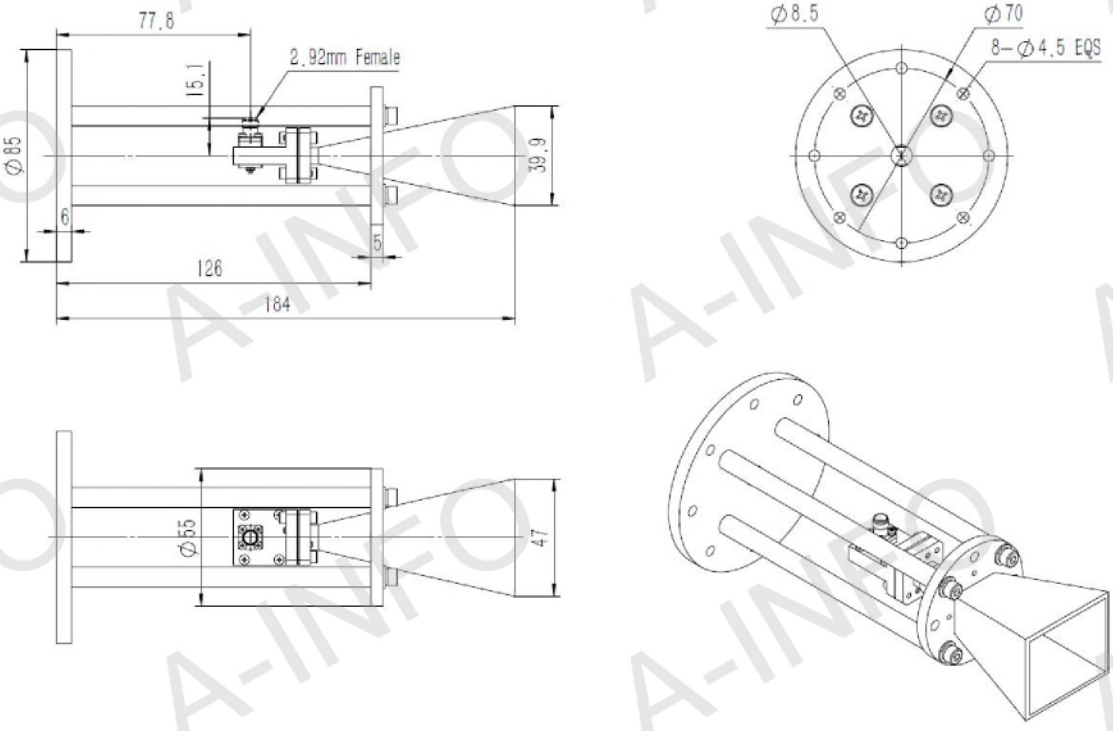
C Type (With 2.92mm-Female Output)

For 2.4mm-Female output outline drawing, please contact A-INFO.



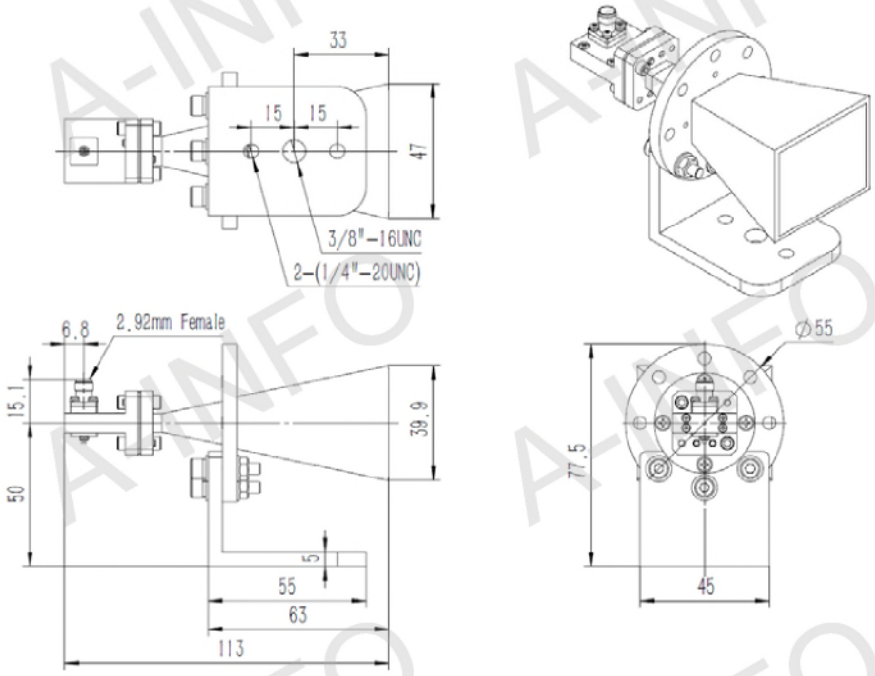
C Type (With 2.92mm-Female Output & Round Mounting Bracket)

For 2.4mm-Female output outline drawing, please contact A-INFO.

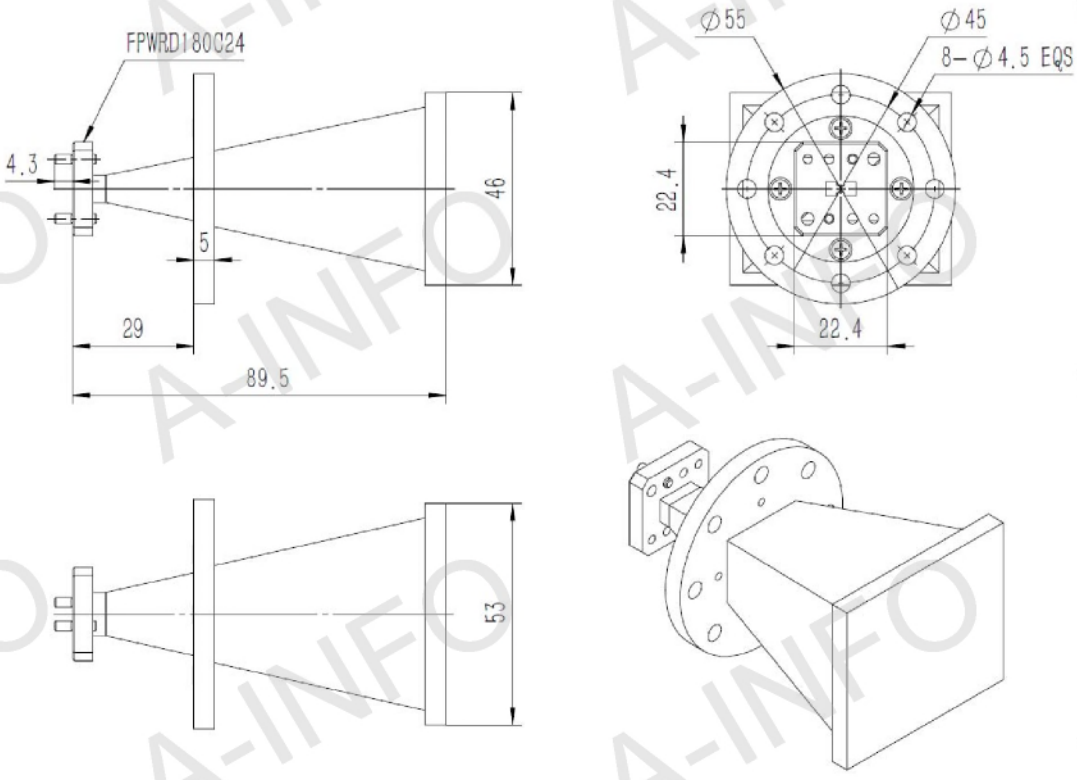


C Type (With 2.92mm-Female Output & L Type Mounting Bracket)

For 2.4mm-Female output outline drawing, please contact A-INFO.

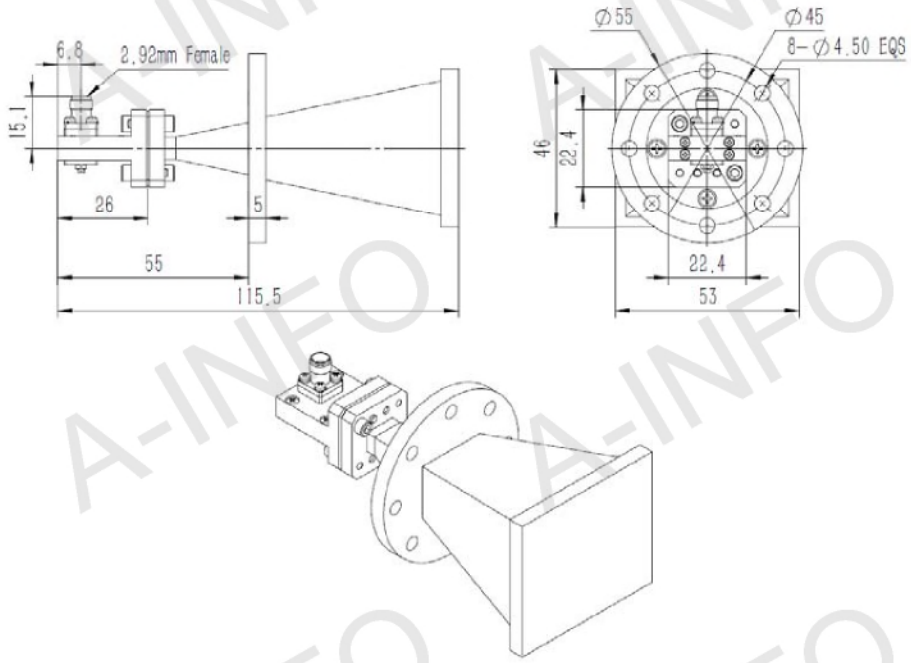


A Type (With Radome)



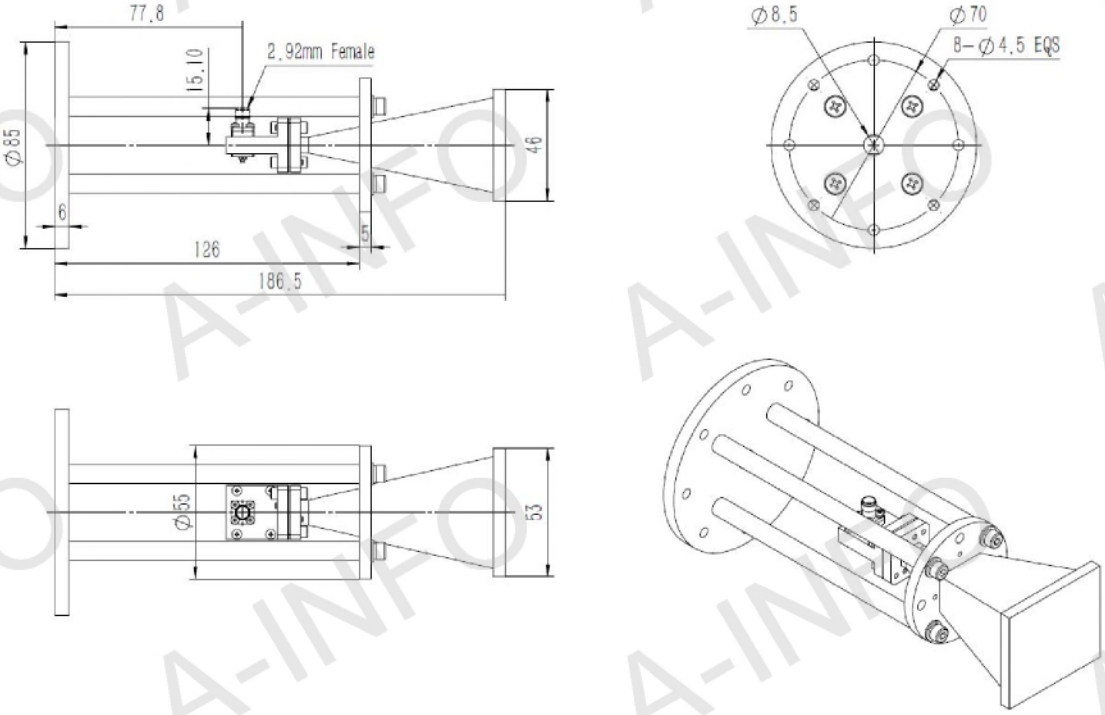
C Type (With 2.92mm-Female Output & Radome)

For 2.4mm-Female output outline drawing, please contact A-INFO.



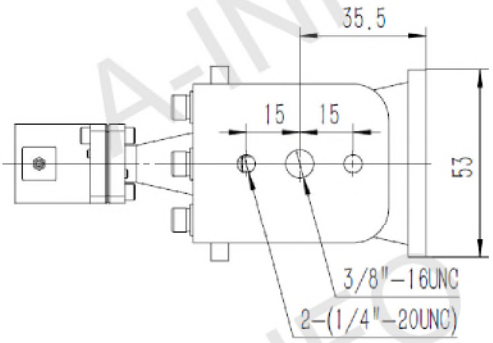
C Type (With 2.92mm-Female Output & Round Mounting Bracket & Radome)

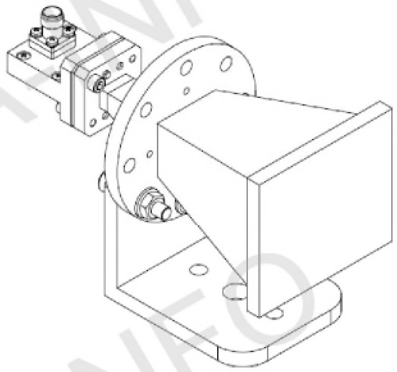
For 2.4mm-Female output outline drawing, please contact A-INFO.

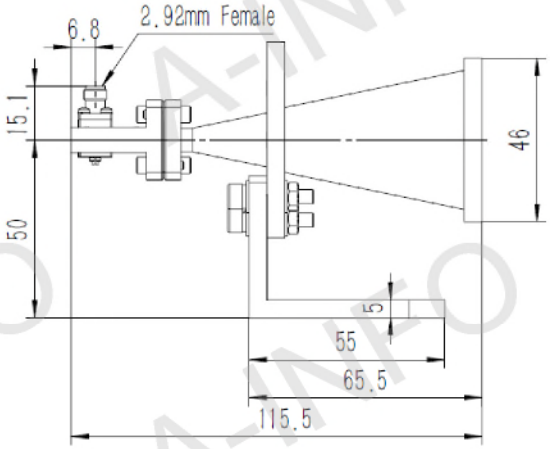


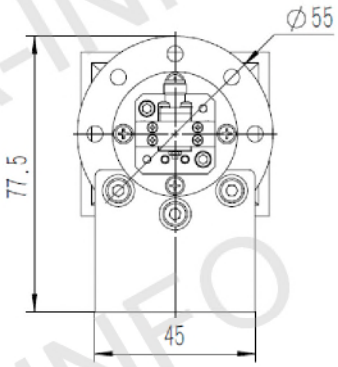
C Type (With 2.92mm-Female Output & L Type Mounting Bracket & Radome)

For 2.4mm-Female output outline drawing, please contact A-INFO.





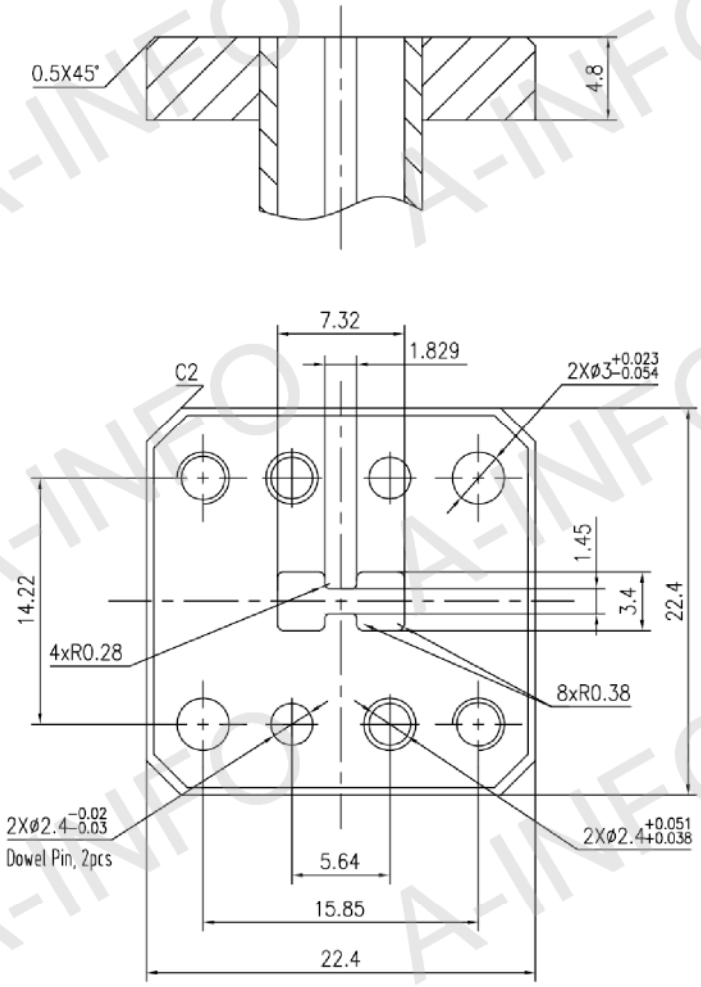




Flange Drawing (Size: mm)

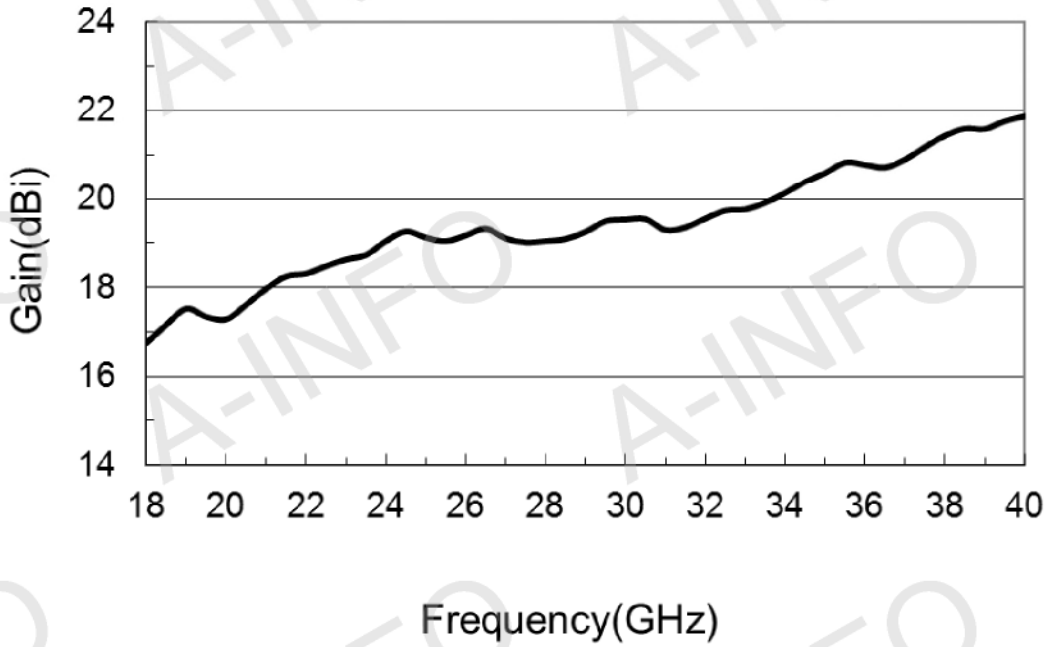
FPWRD180C24

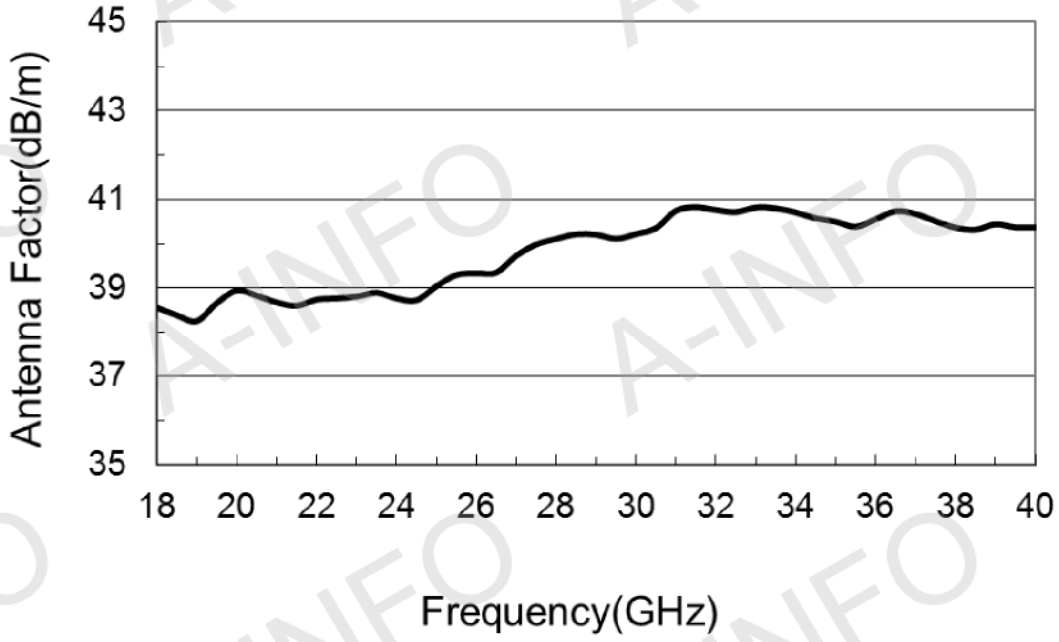
(With two through mounting holes
and two screws holes)



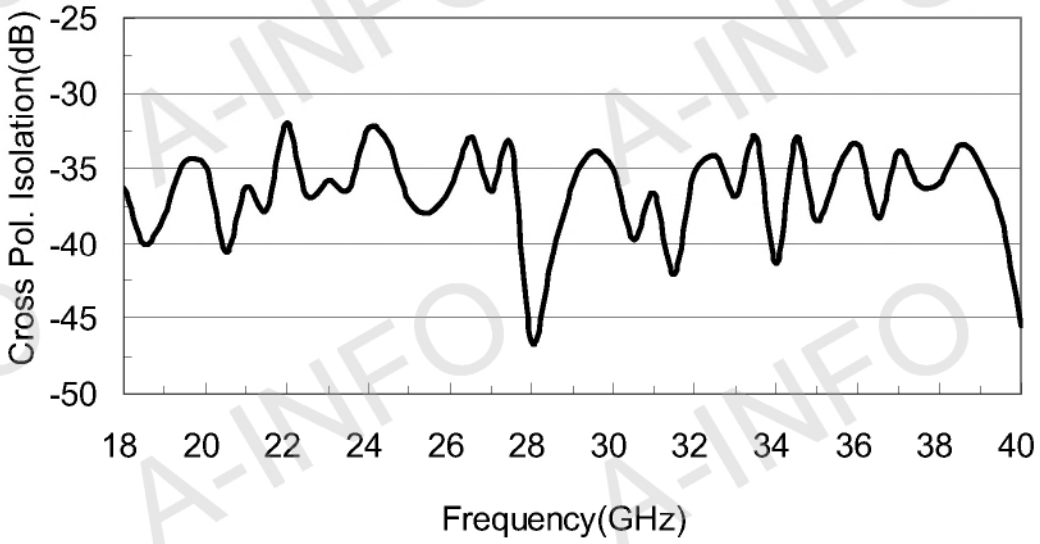
Test Results

1. Gain & Antenna Factor

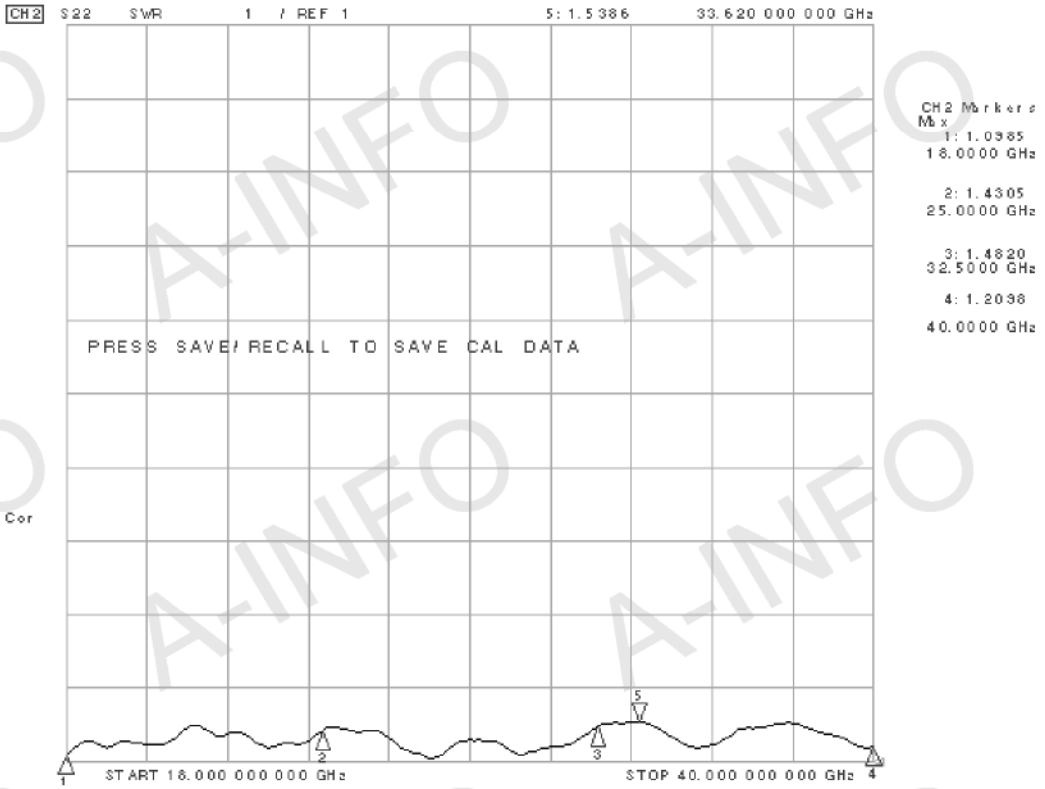




2. Cross Polarization Isolation

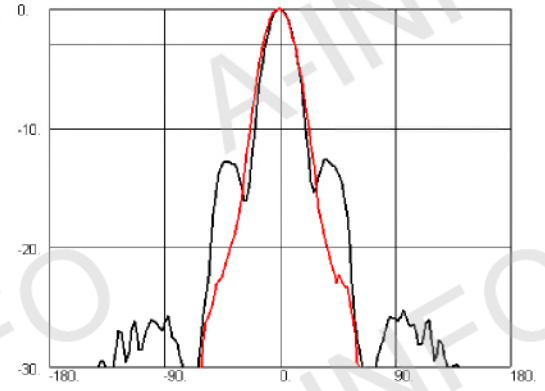


3. VSWR



4. Pattern

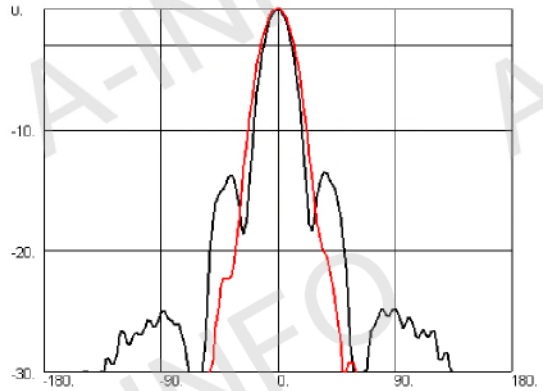
Frequency: 18GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 24.90 3dB Beamwidth (deg): 22.84

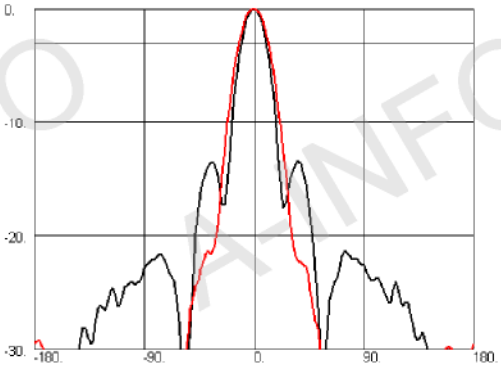
Frequency: 18.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 25.56 3dB Beamwidth (deg): 21.50

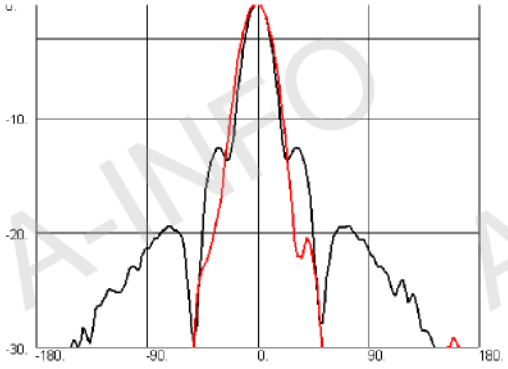
Frequency: 19GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 24.02 3dB Beamwidth (deg): 20.50

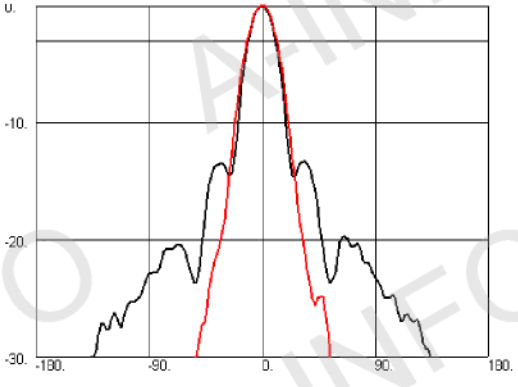
Frequency: 19.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 24.43 3dB Beamwidth (deg): 20.89

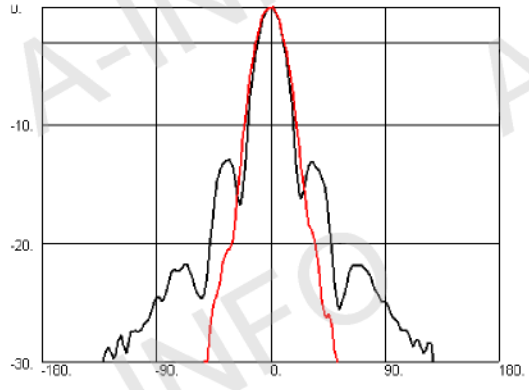
Frequency: 20GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 23.71 3dB Beamwidth (deg): 21.90

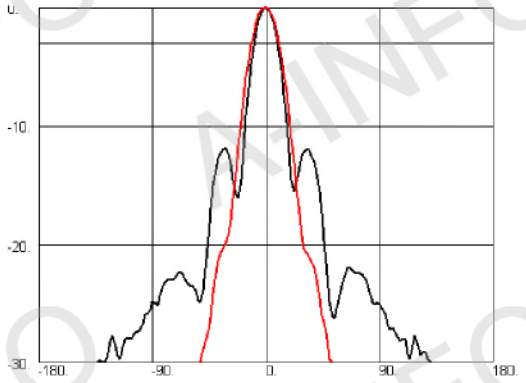
Frequency: 20.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 22.56 3dB Beamwidth (deg): 20.62

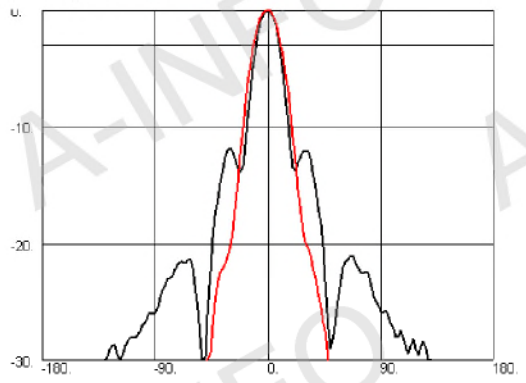
Frequency: 21GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 21.90 3dB Beamwidth (deg): 18.53

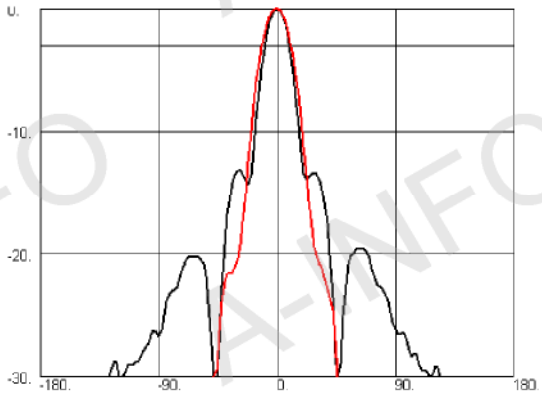
Frequency: 21.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 22.09 3dB Beamwidth (deg): 18.77

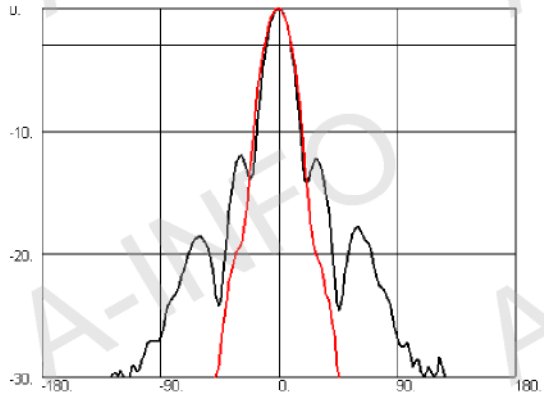
Frequency: 22GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 22.29 3dB Beamwidth (deg): 18.69

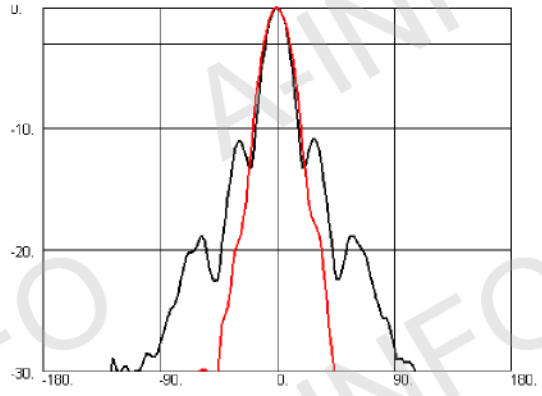
Frequency: 22.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 20.73 3dB Beamwidth (deg): 18.95

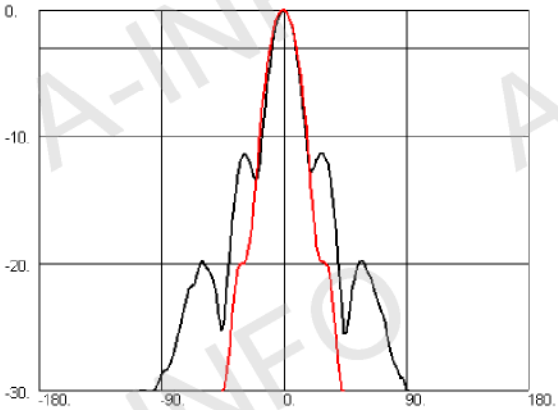
Frequency: 23GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 20.48 3dB Beamwidth (deg): 18.14

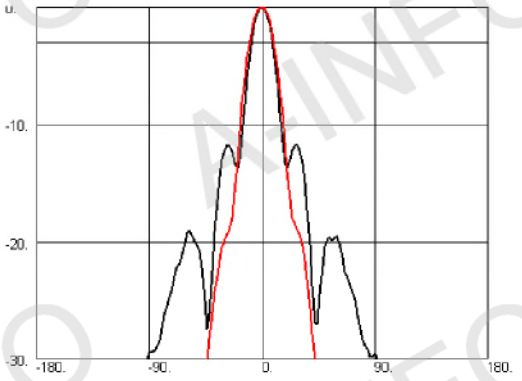
Frequency: 23.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 19.63 3dB Beamwidth (deg): 17.62

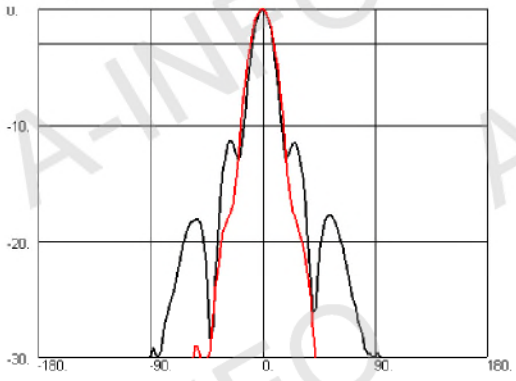
Frequency: 24GHz



H-Plane E-Plane

3dB Beamwidth (deg): 19.48 3dB Beamwidth (deg): 17.00

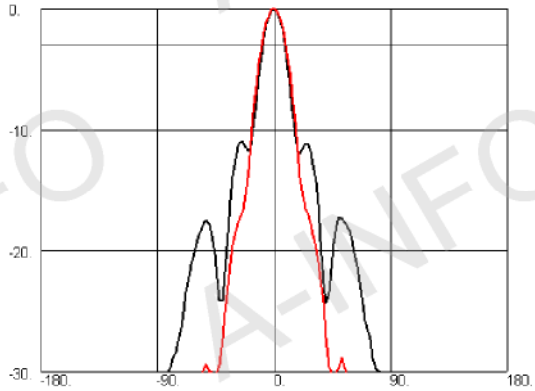
Frequency: 24.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 19.21 3dB Beamwidth (deg): 16.68

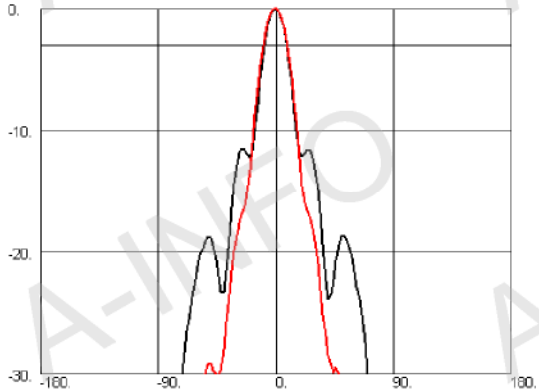
Frequency: 25GHz



H-Plane E-Plane

3dB Beamwidth (deg): 18.84 3dB Beamwidth (deg): 17.31

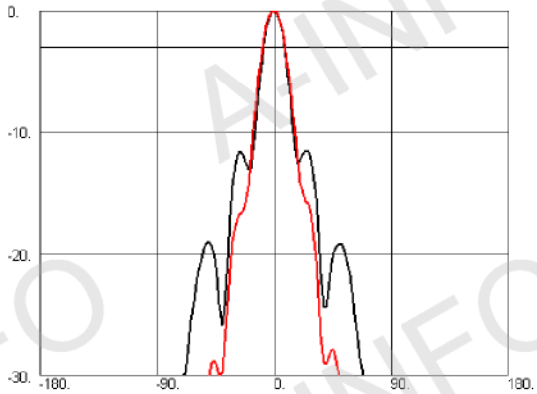
Frequency: 25.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 18.59 3dB Beamwidth (deg): 17.26

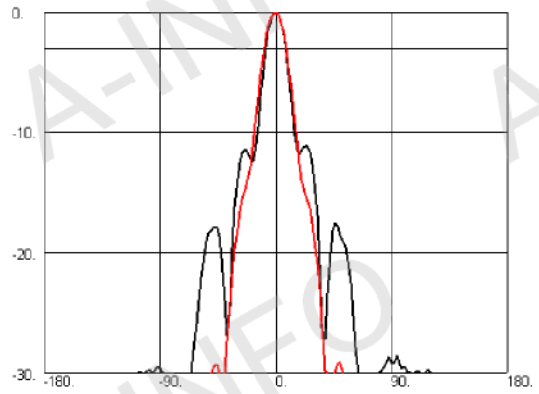
Frequency: 26GHz



H-Plane E-Plane

3dB Beamwidth (deg): 17.56 3dB Beamwidth (deg): 16.32

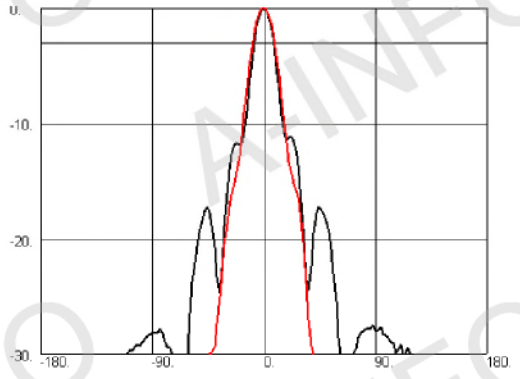
Frequency: 26.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 17.33 3dB Beamwidth (deg): 15.75

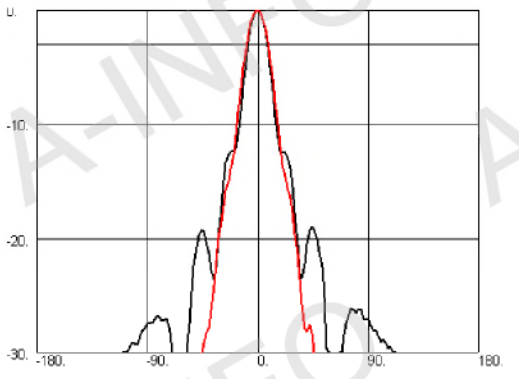
Frequency: 27GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 17.86 3dB Beamwidth (deg): 15.93

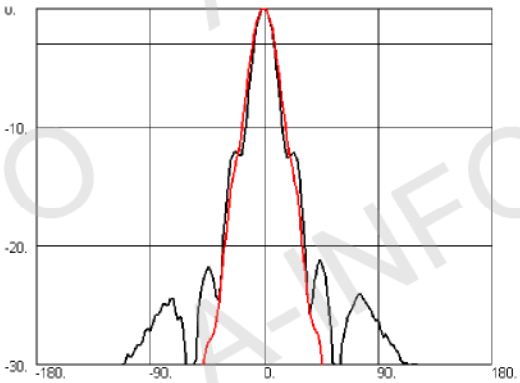
Frequency: 27.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 17.71 3dB Beamwidth (deg): 15.93

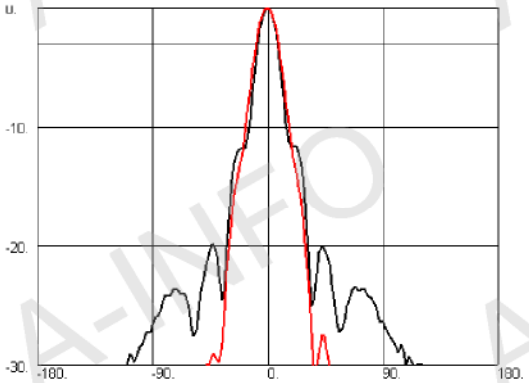
Frequency: 28GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 17.63 3dB Beamwidth (deg): 15.78

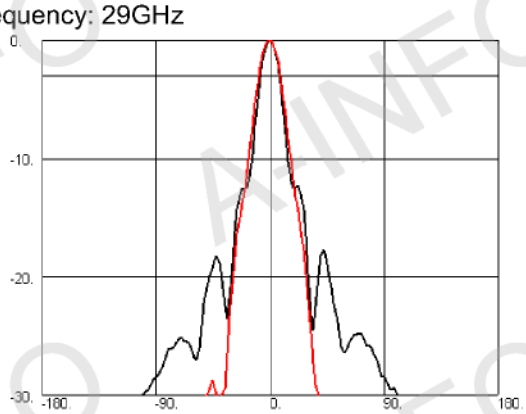
Frequency: 28.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 17.44 3dB Beamwidth (deg): 15.40

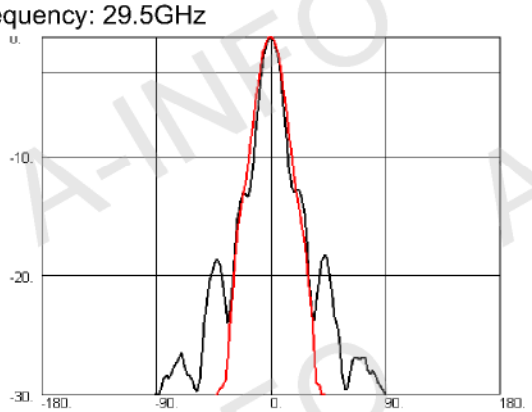
Frequency: 29GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 17.02 3dB Beamwidth (deg): 15.04

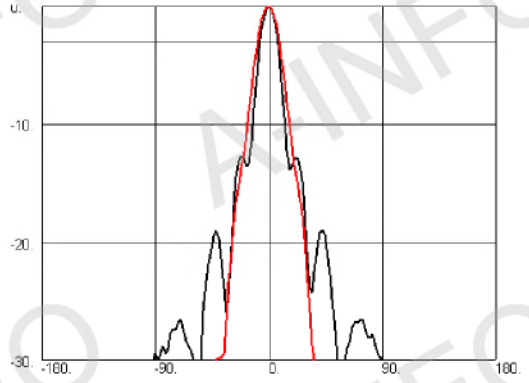
Frequency: 29.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 17.29 3dB Beamwidth (deg): 14.75

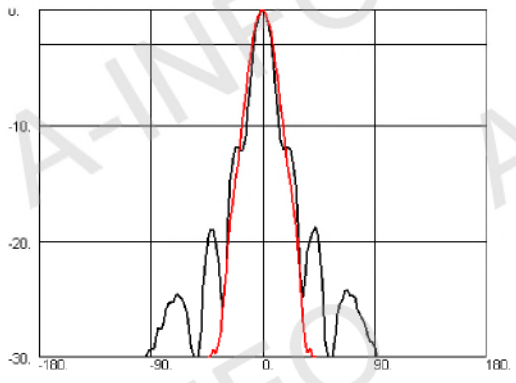
Frequency: 30GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 17.29 3dB Beamwidth (deg): 13.99

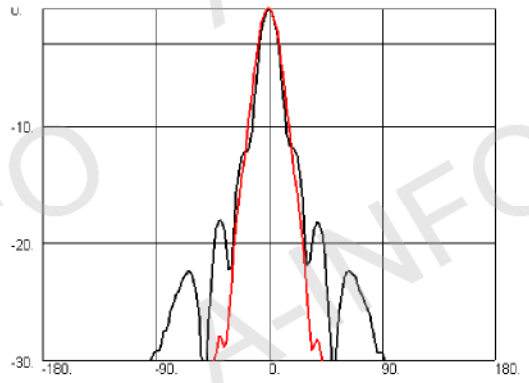
Frequency: 30.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 17.07 3dB Beamwidth (deg): 14.13

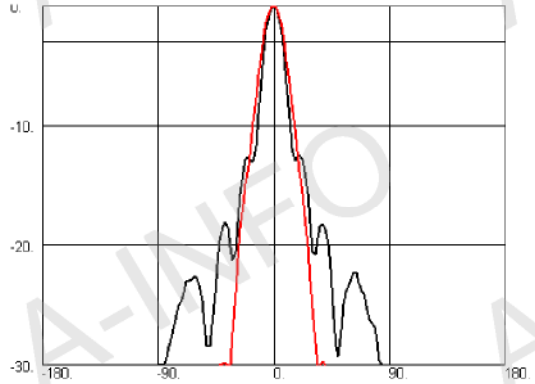
Frequency: 31GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 16.80 3dB Beamwidth (deg): 14.30

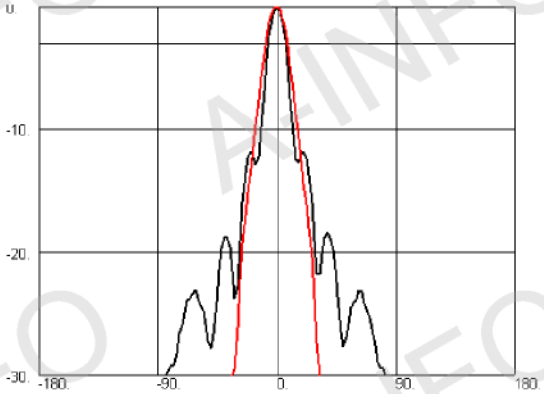
Frequency: 31.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 16.65 3dB Beamwidth (deg): 13.84

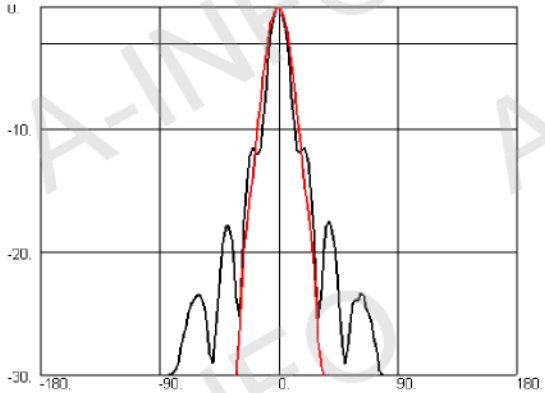
Frequency: 32GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 16.51 3dB Beamwidth (deg): 13.05

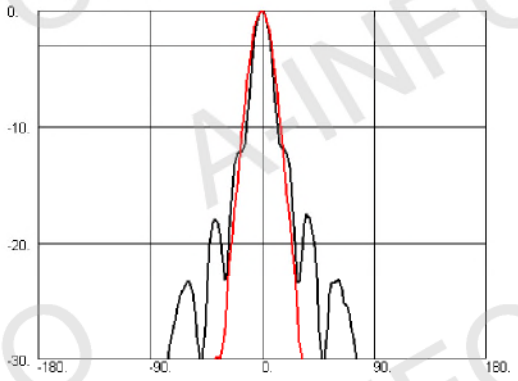
Frequency: 32.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 16.42 3dB Beamwidth (deg): 13.07

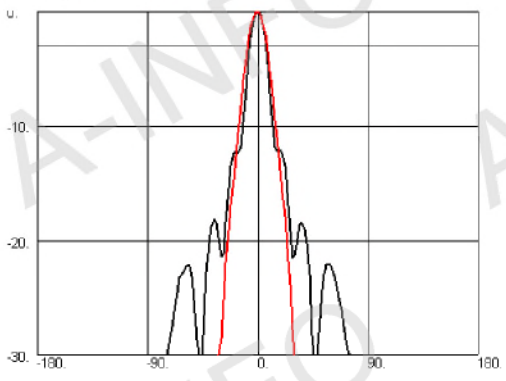
Frequency: 33GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 16.12 3dB Beamwidth (deg): 13.30

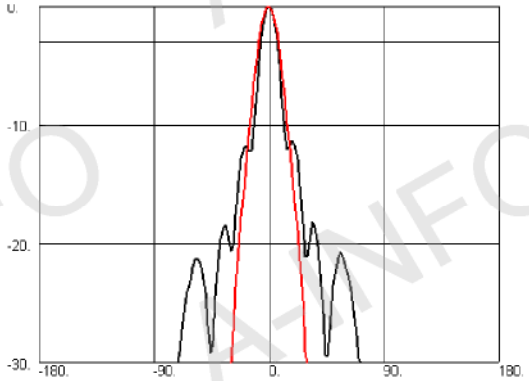
Frequency: 33.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 15.95 3dB Beamwidth (deg): 13.24

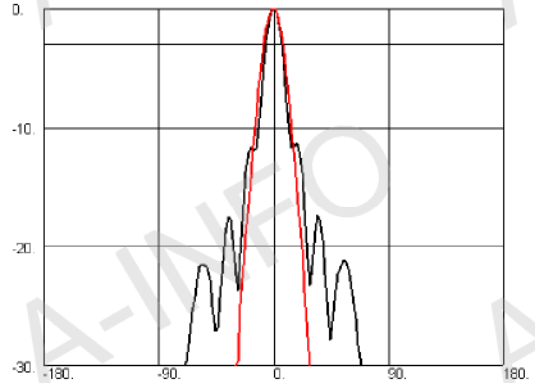
Frequency: 34GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 15.55 3dB Beamwidth (deg): 12.78

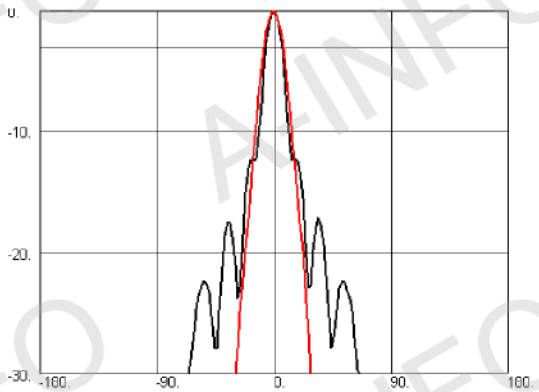
Frequency: 34.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 15.15 3dB Beamwidth (deg): 12.49

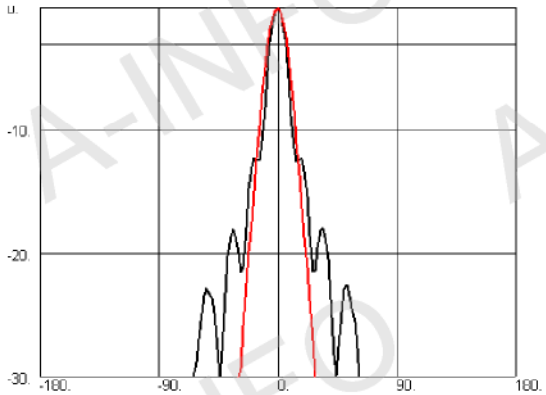
Frequency: 35GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 14.92 3dB Beamwidth (deg): 12.29

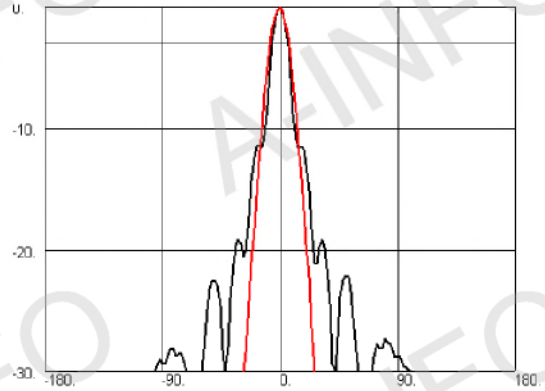
Frequency: 35.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 14.68 3dB Beamwidth (deg): 11.95

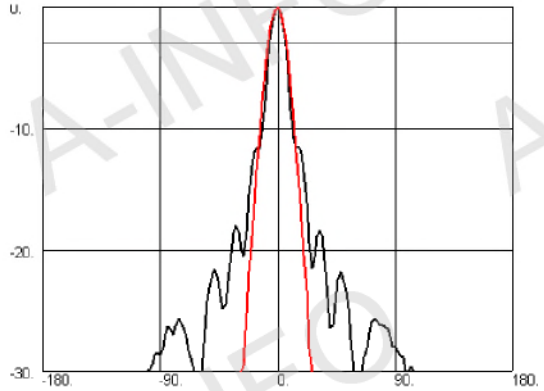
Frequency: 36GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 14.39 3dB Beamwidth (deg): 11.89

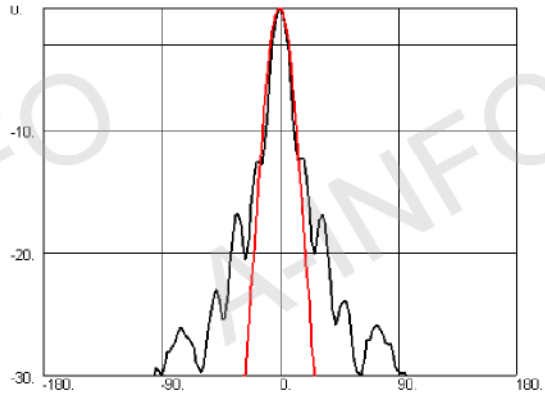
Frequency: 36.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 13.90 3dB Beamwidth (deg): 12.08

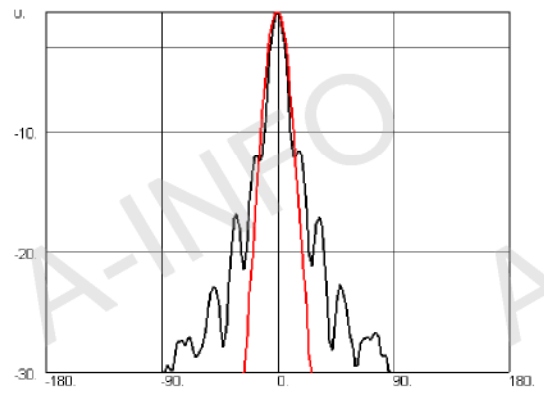
Frequency: 37GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 14.05 3dB Beamwidth (deg): 11.60

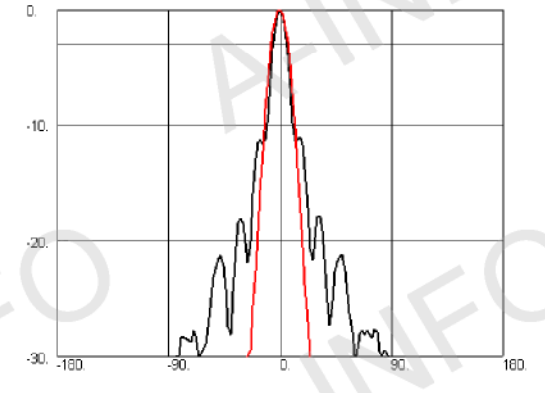
Frequency: 37.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 13.99 3dB Beamwidth (deg): 10.87

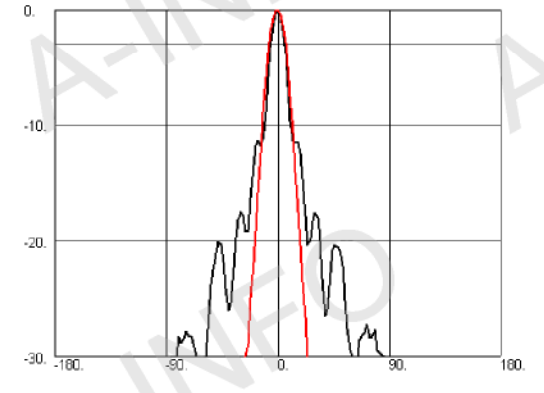
Frequency: 38GHz



H-Plane ——— E-Plane ———

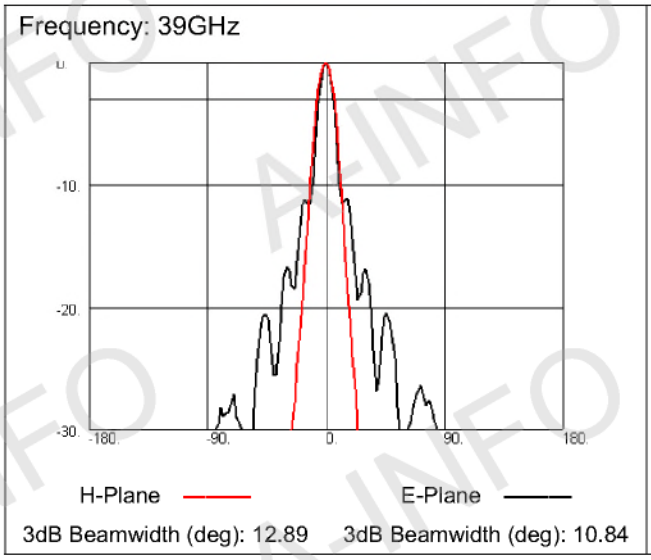
3dB Beamwidth (deg): 13.62 3dB Beamwidth (deg): 10.79

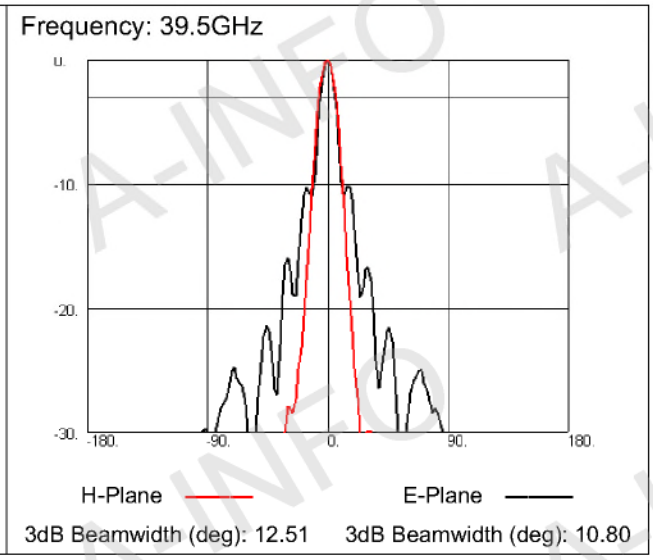
Frequency: 38.5GHz

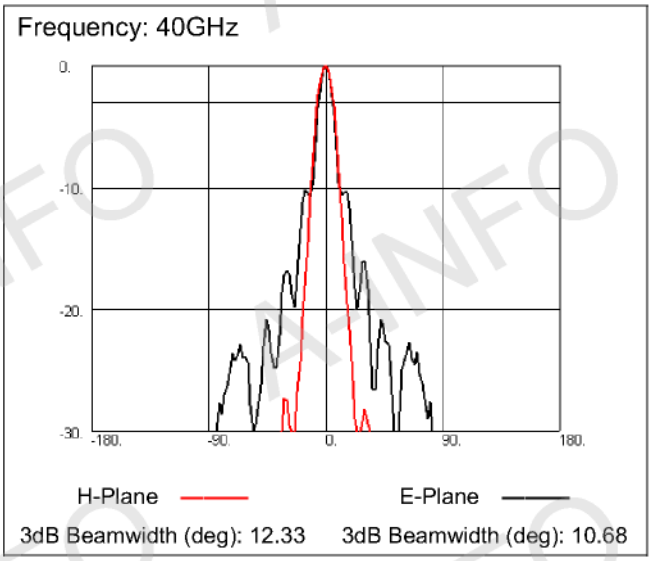


H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 13.36 3dB Beamwidth (deg): 10.91


Frequency: 39GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth (deg): 12.89
3dB Beamwidth (deg): 10.84


Frequency: 39.5GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth (deg): 12.51
3dB Beamwidth (deg): 10.80


Frequency: 40GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth (deg): 12.33
3dB Beamwidth (deg): 10.68