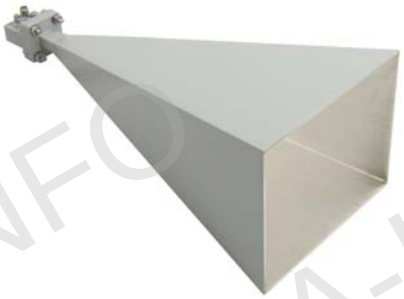
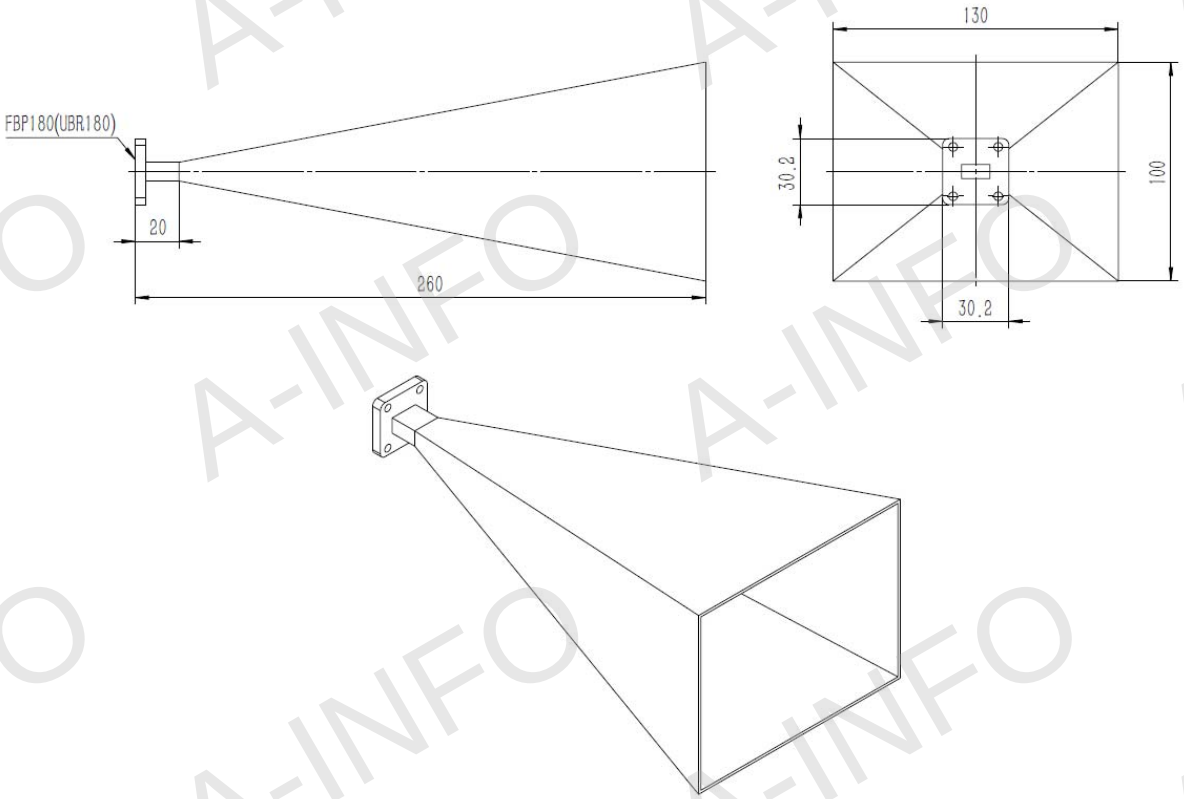
Technical Specification



Frequency Range(GHz)	15.0 - 22.0	
Waveguide	WR51	
Gain(dBi)	25 Typ.	
Polarization	Linear	
3dB Beamwidth(deg)	10 Typ.	
Cross Pol. Isolation(dB)	40 Typ.	
VSWR	A Type:	1.15:1 Typ.
	C Type:	1.25:1 Typ.
Output	A Type:	FBP180(UBR180)
	C Type:	SMA-Female
Material	Cu	
Size(mm)	A Type:	260 x 130 x 100
	C Type:	287 x 130 x 100
Net Weight(Kg)	A Type:	0.70 Around
	C Type:	0.93 Around

Outline Drawing (Size: mm)

A Type (With FBP180 Output)



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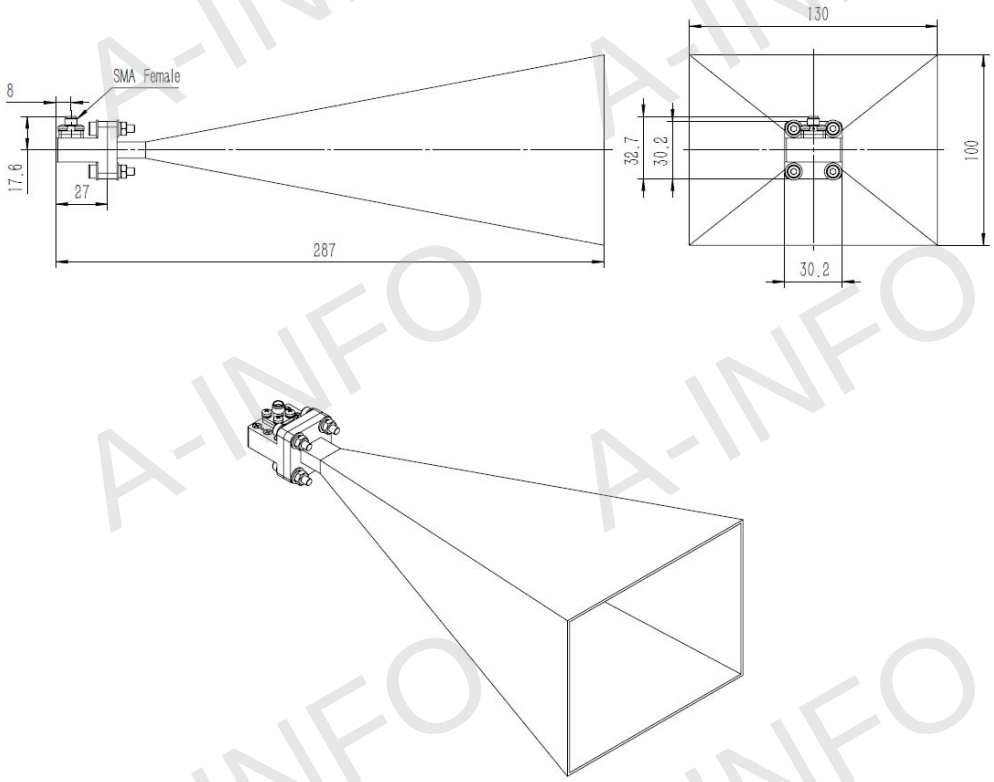
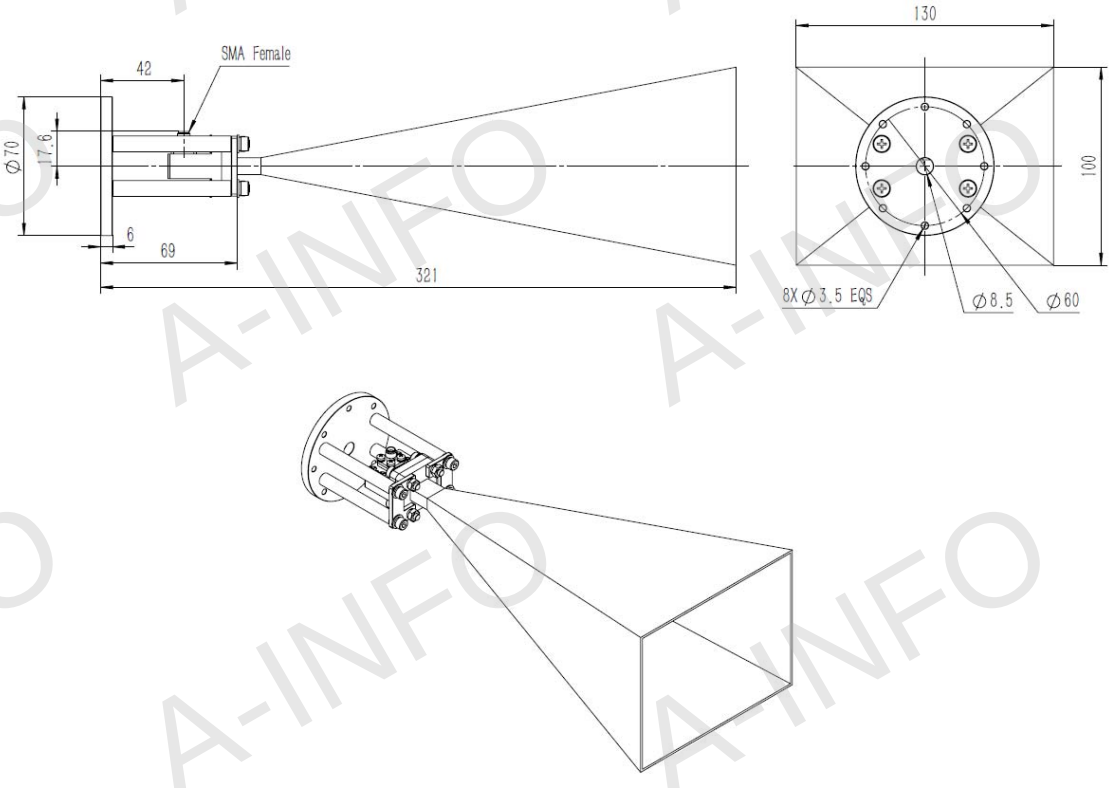
C Type (With SMA-Female Output)



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



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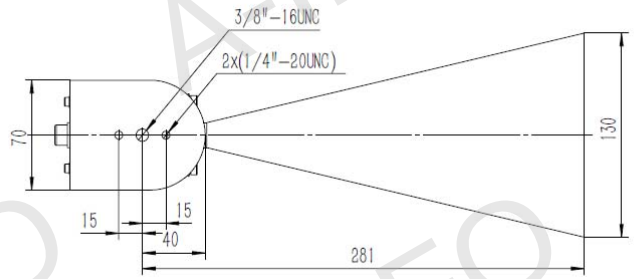
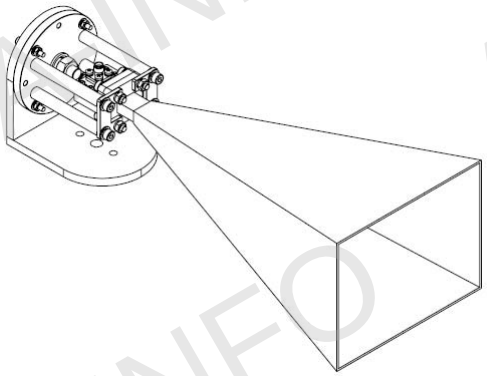
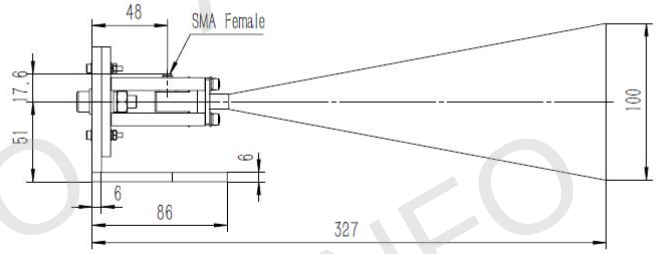
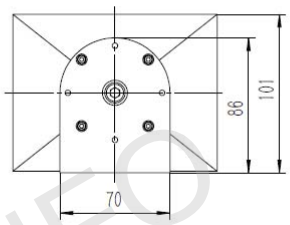
C Type (With SMA-Female Output & L Type Mounting Bracket)

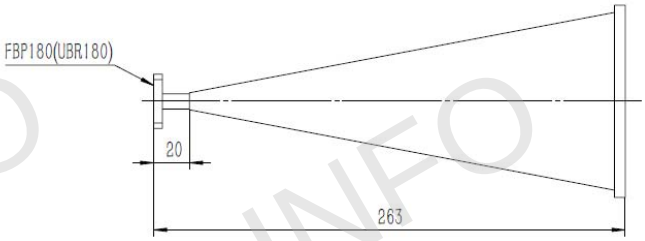


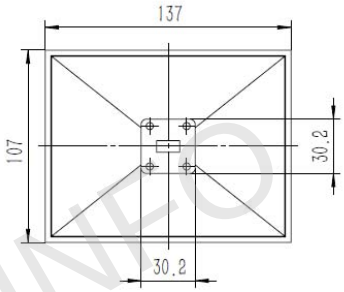


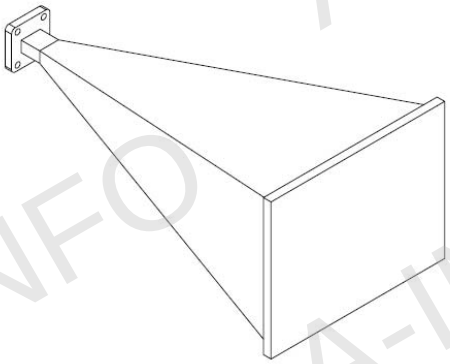




A Type (With Radome)







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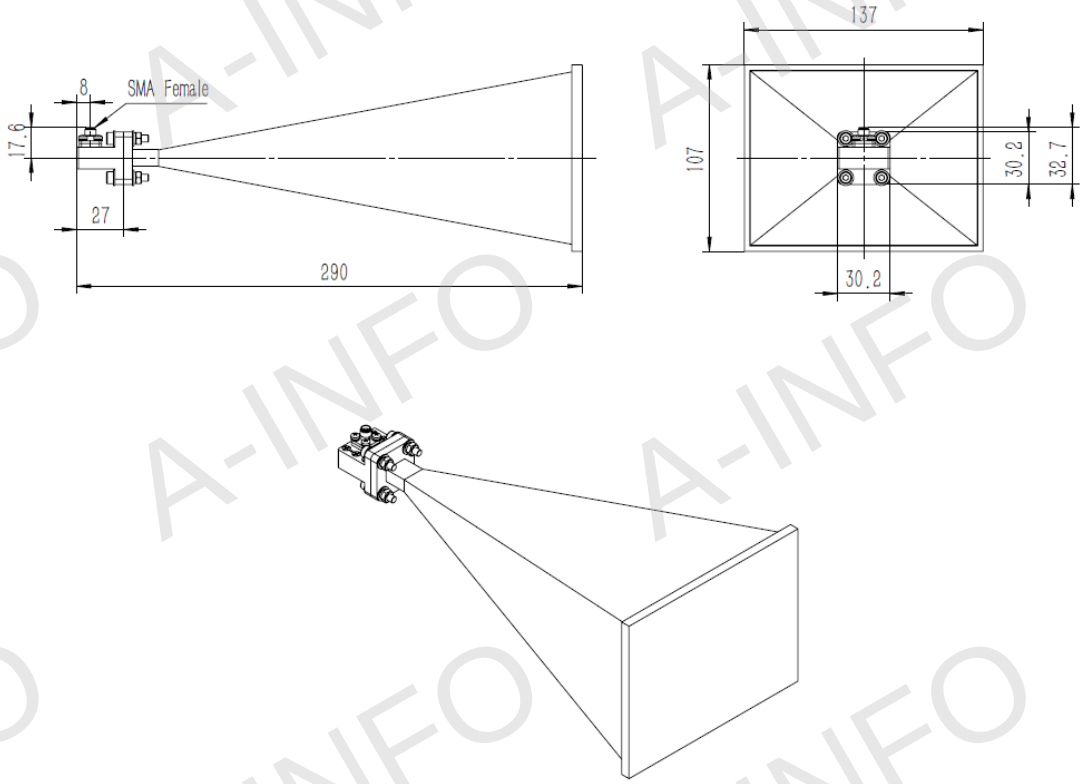
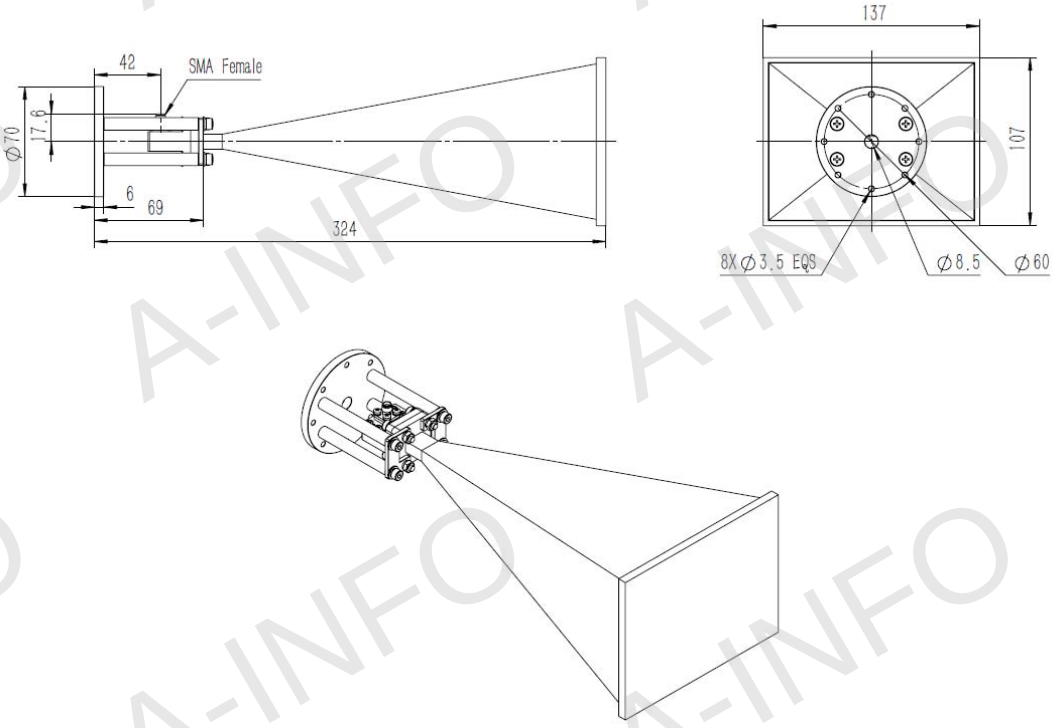
C Type (With SMA-Female Output & Radome)



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



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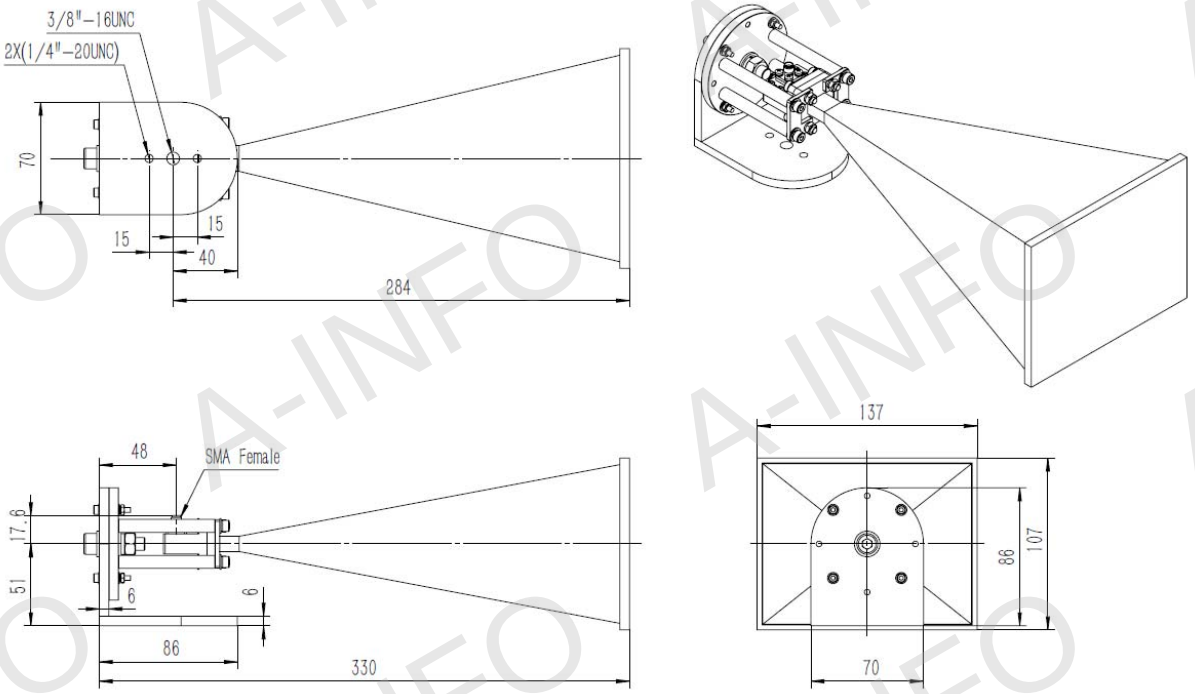
C Type (With SMA-Female Output & L Type Mounting Bracket & Radome)



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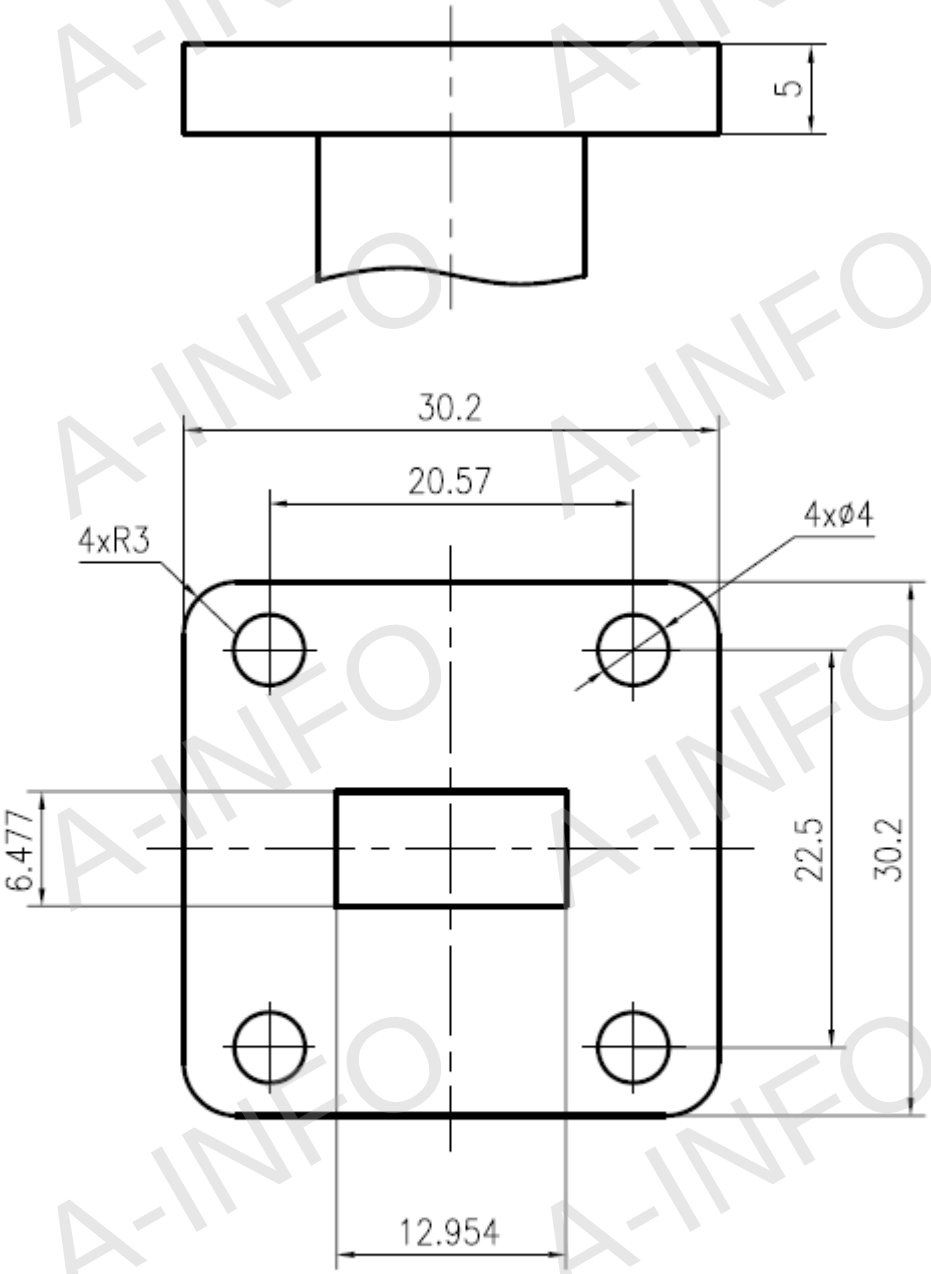
Flange Drawing (Size: mm)



FBP180

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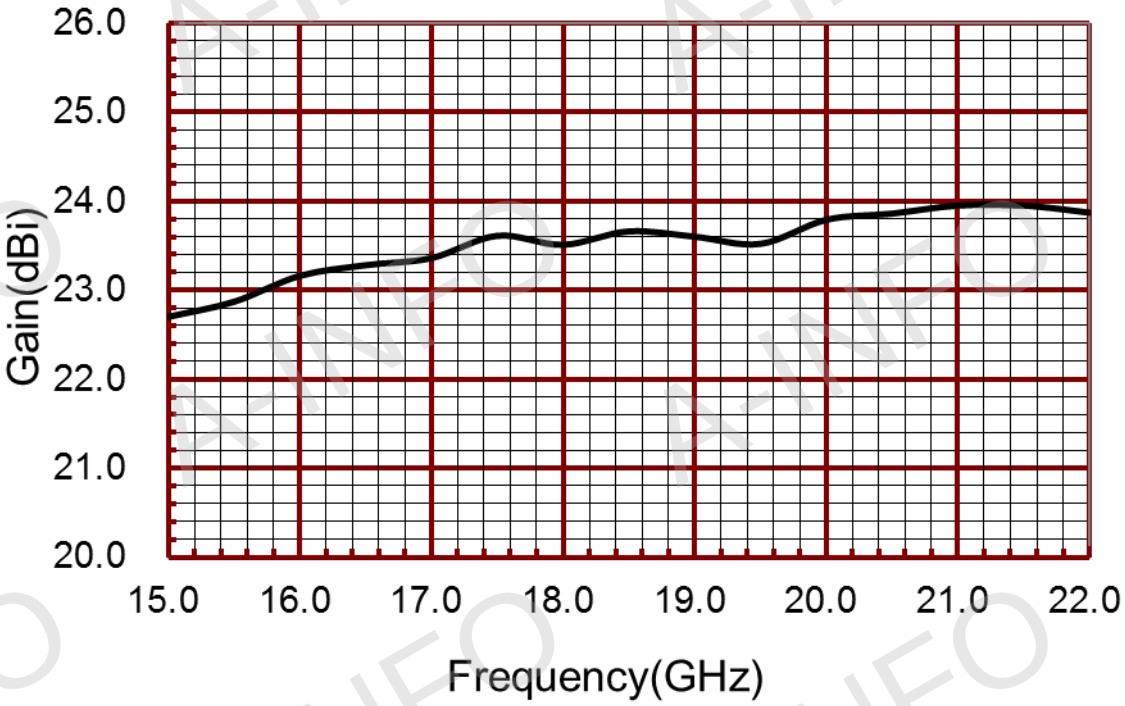
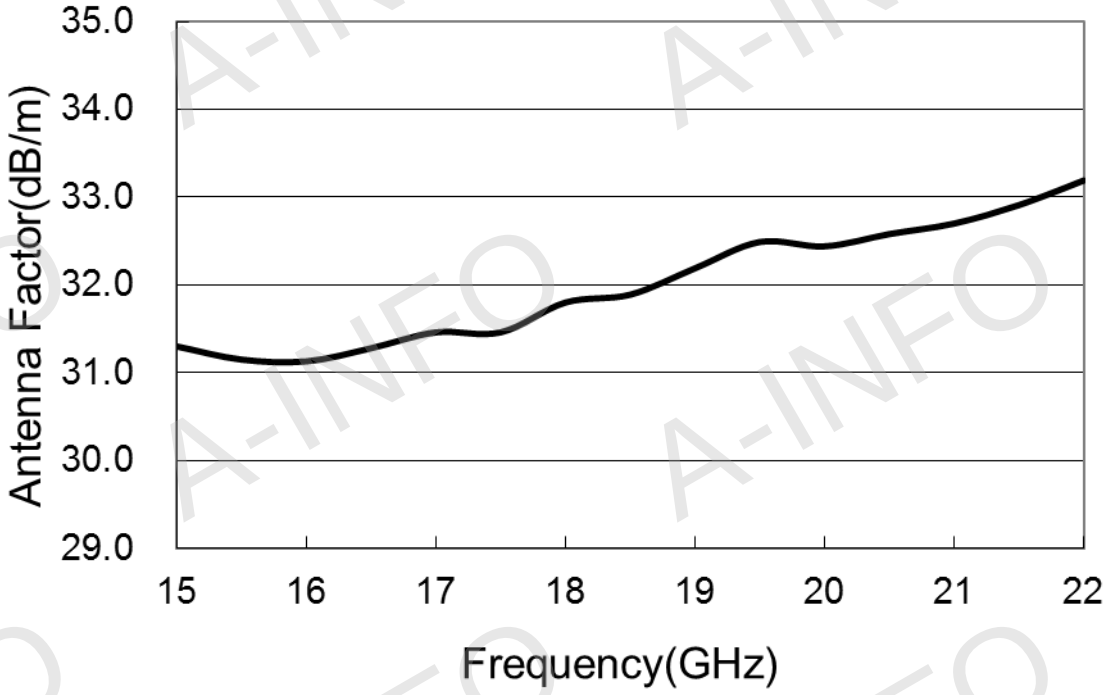
Test Results

1. Gain and Antenna Factor





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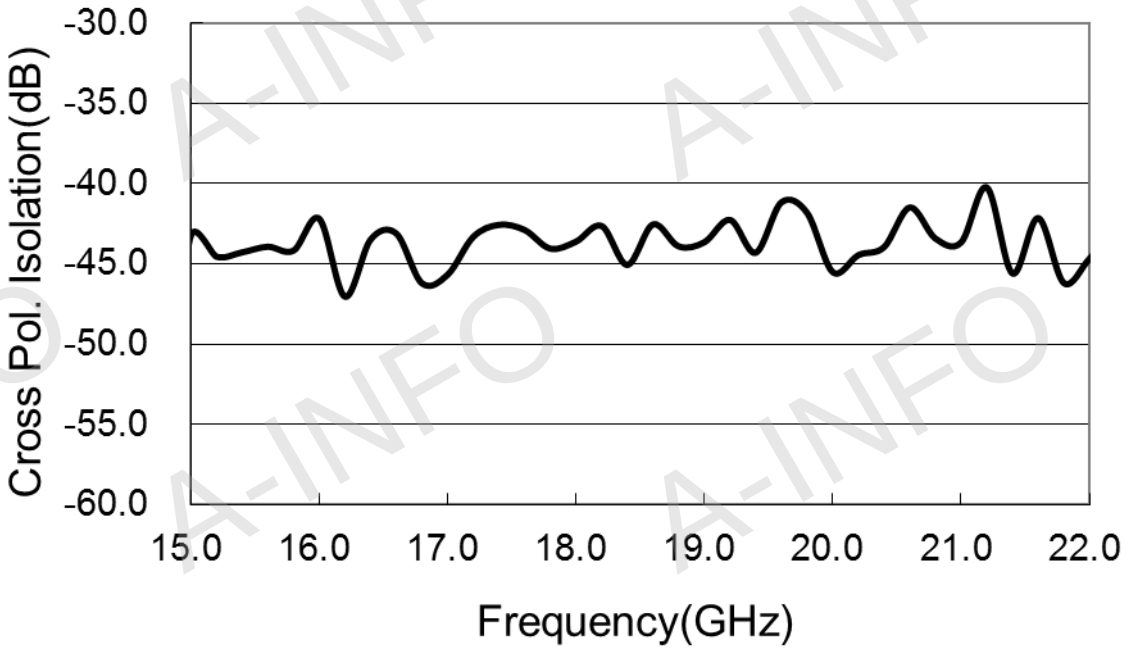
Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
15.0	22.70	31.30
15.5	22.87	31.15
16.0	23.16	31.13
16.5	23.28	31.28
17.0	23.36	31.46
17.5	23.61	31.46
18.0	23.51	31.80
18.5	23.66	31.89
19.0	23.60	32.19
19.5	23.52	32.49
20.0	23.79	32.44
20.5	23.86	32.58
21.0	23.95	32.70
21.5	23.95	32.91
22.0	23.87	33.19

2. Cross Polarization Isolation



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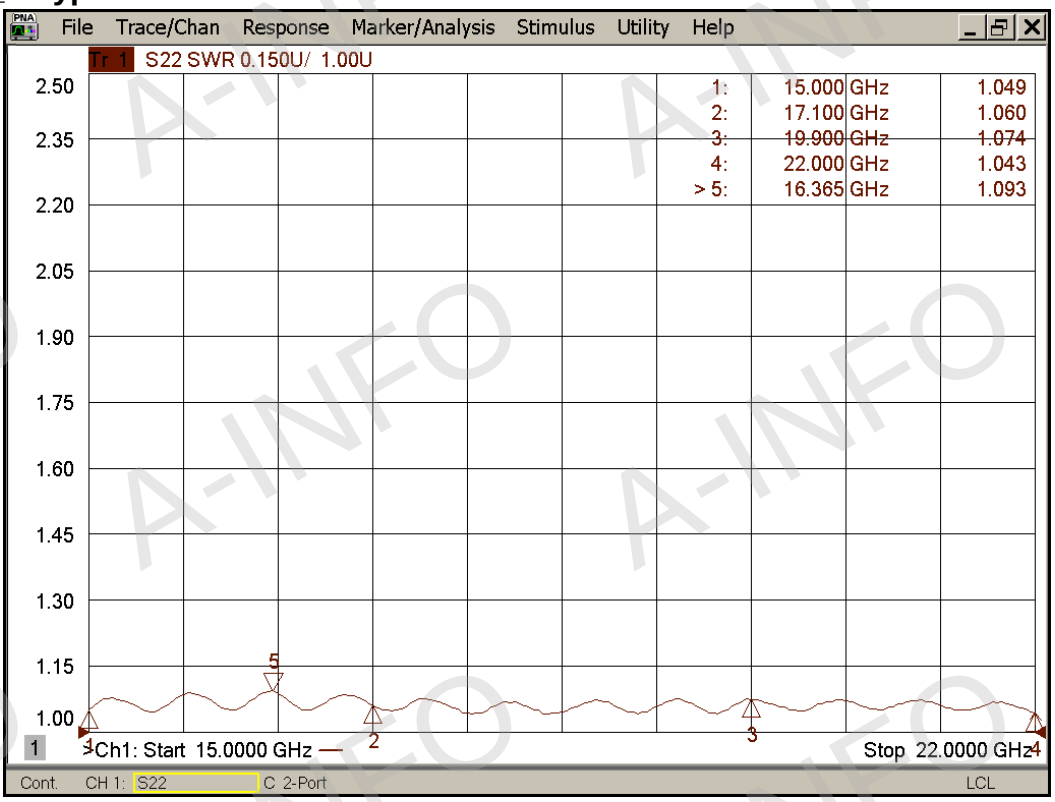
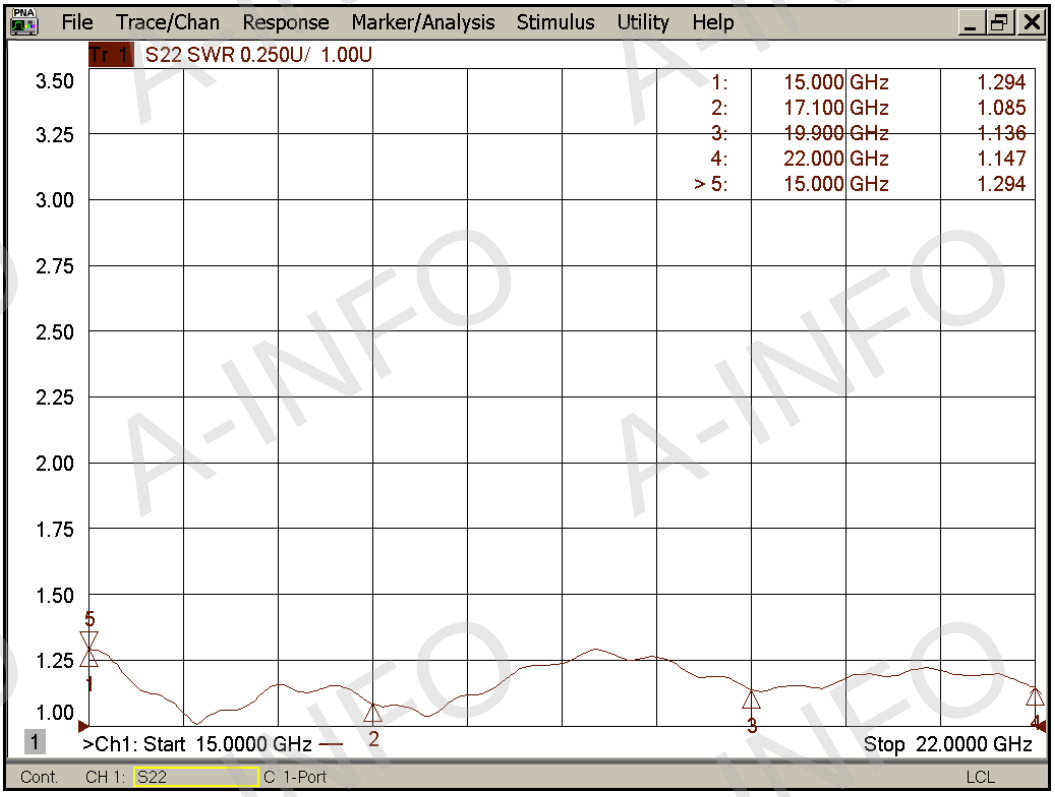
3. VSWR_A Type



VSWR_C Type



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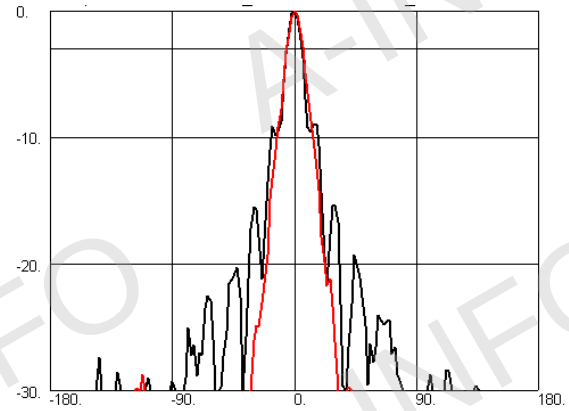
4. Pattern

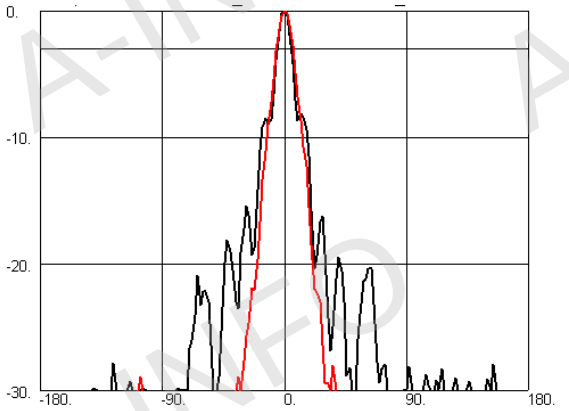
Frequency: 15.0GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 11.99 3dB Beamwidth (deg): 10.91

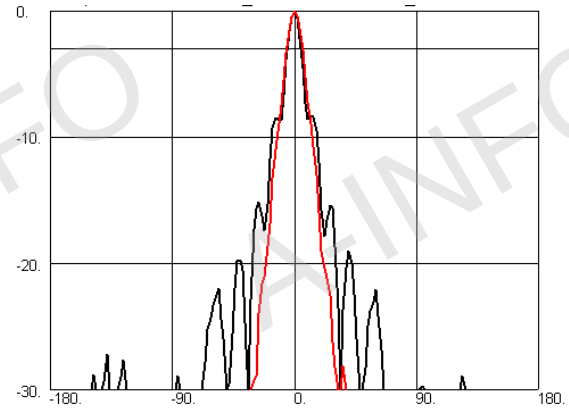
Frequency: 15.5GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 12.09 3dB Beamwidth (deg): 10.19

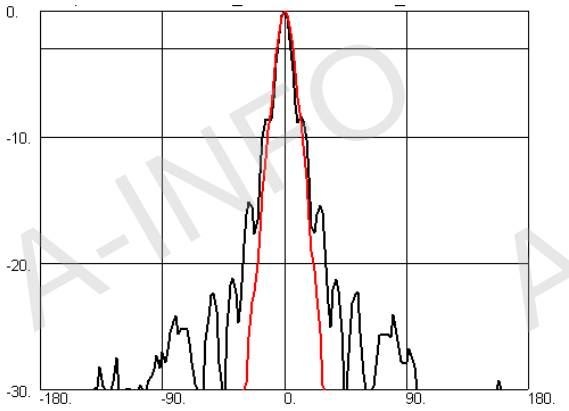
Frequency: 16.0GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 11.52 3dB Beamwidth (deg): 9.92

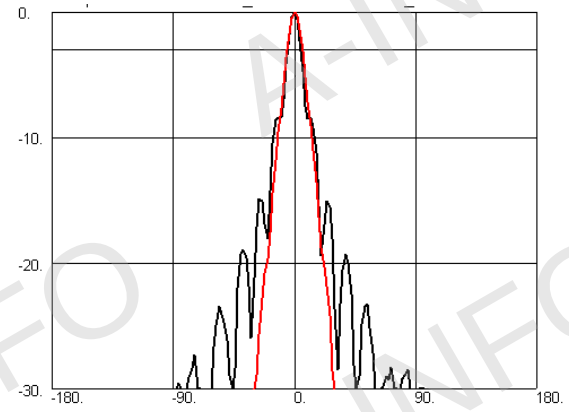
Frequency: 16.5GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 11.58 3dB Beamwidth (deg): 9.64

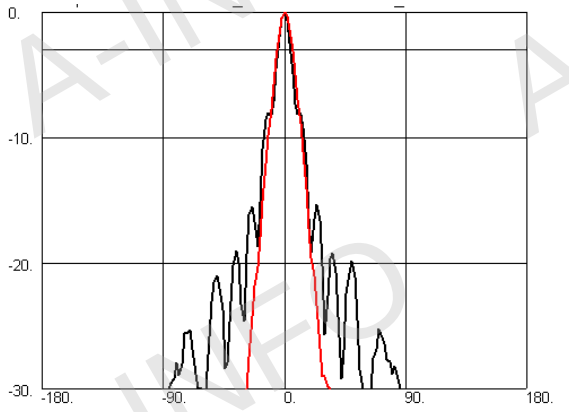
Frequency: 17.0GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 11.24 3dB Beamwidth (deg): 9.62

Frequency: 17.5GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 11.19 3dB Beamwidth (deg): 9.29

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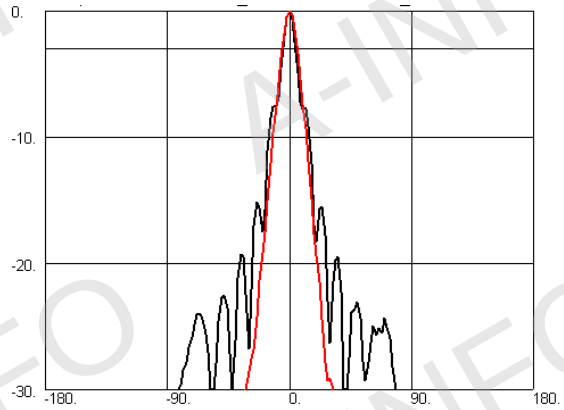
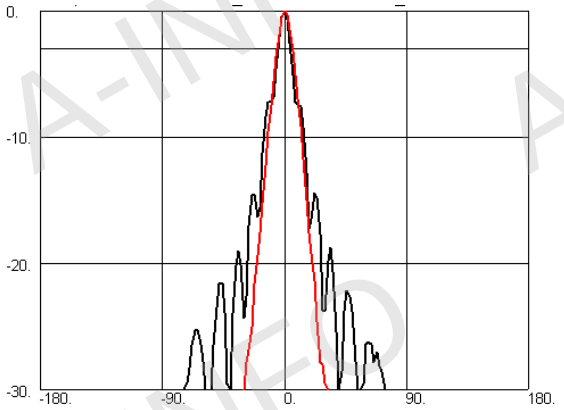
Frequency: 18.0GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 10.88 3dB Beamwidth (deg): 8.26

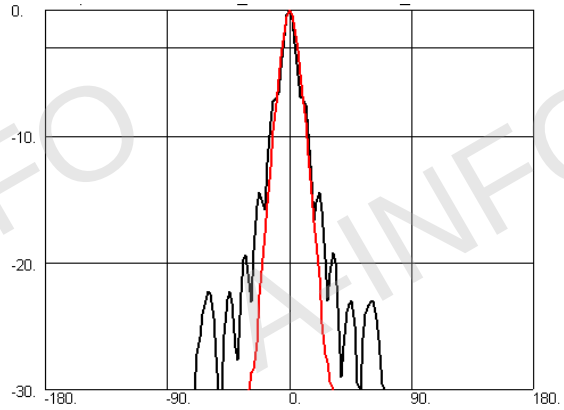
Frequency: 18.5GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 11.08 3dB Beamwidth (deg): 9.10

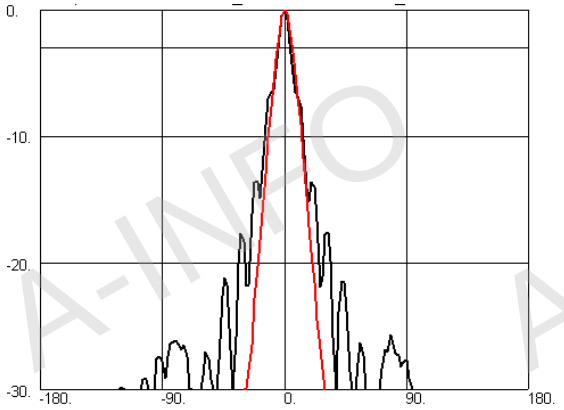
Frequency: 19.0GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 11.04 3dB Beamwidth (deg): 9.02

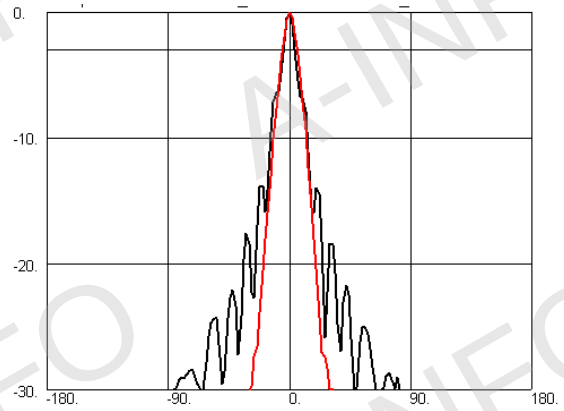
Frequency: 19.5GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 10.70 3dB Beamwidth (deg): 8.93

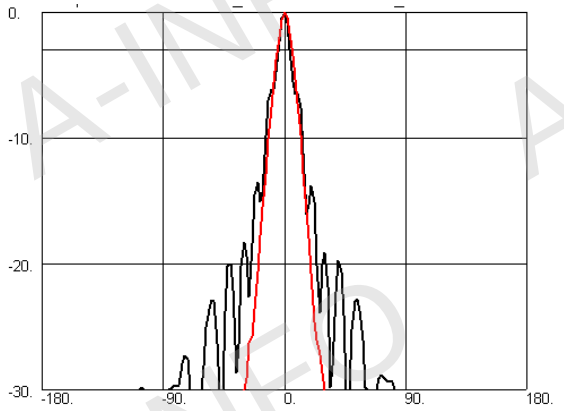
Frequency: 20.0GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 10.64 3dB Beamwidth (deg): 8.53

Frequency: 20.5GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 10.60 3dB Beamwidth (deg): 8.50

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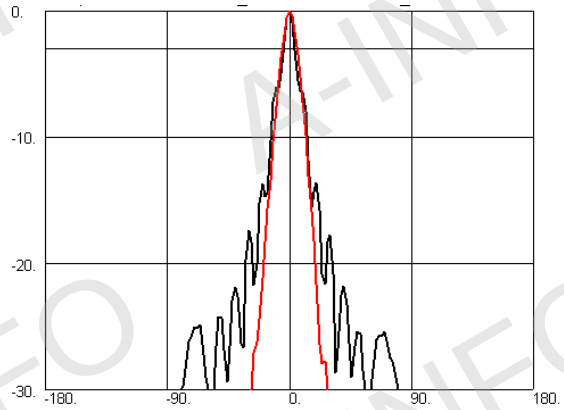
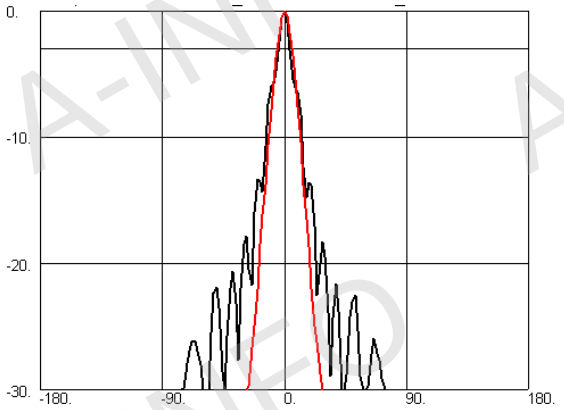
Frequency: 21.0GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 10.73 3dB Beamwidth (deg): 8.34

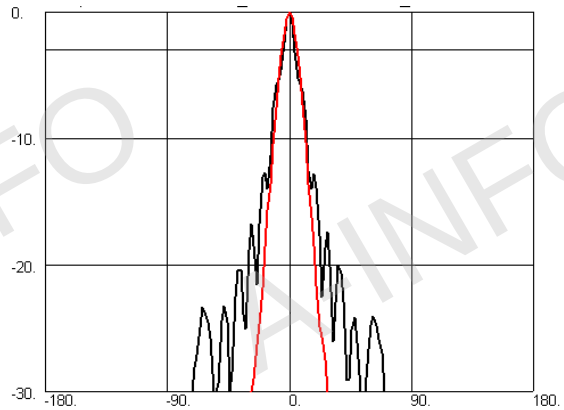
Frequency: 21.5GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 10.67 3dB Beamwidth (deg): 8.41

Frequency: 22.0GHz



H-Plane —— E-Plane ——

3dB Beamwidth (deg): 10.95 3dB Beamwidth (deg): 8.38

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