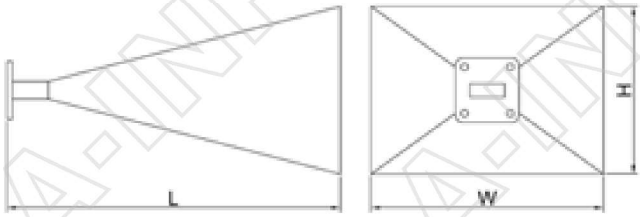
Technical Specification

Frequency Range(GHz)	15.0 - 22.0
Gain(dB)	15 Typ.
3dB Beamwidth(deg)	30 Typ.
Waveguide	WR51
Material	Cu
Output	A Type: FBP180 C Type: SMA-F
Size(mm) W x H x L	A Type: 44x34x60 C Type: 44x34x87
Net Weight(Kg)	A Type: 0.10 Around C Type: 0.20 Around

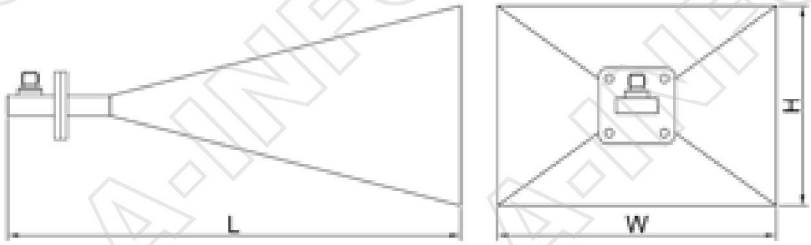
Outline Drawing (Size: mm)

A Type



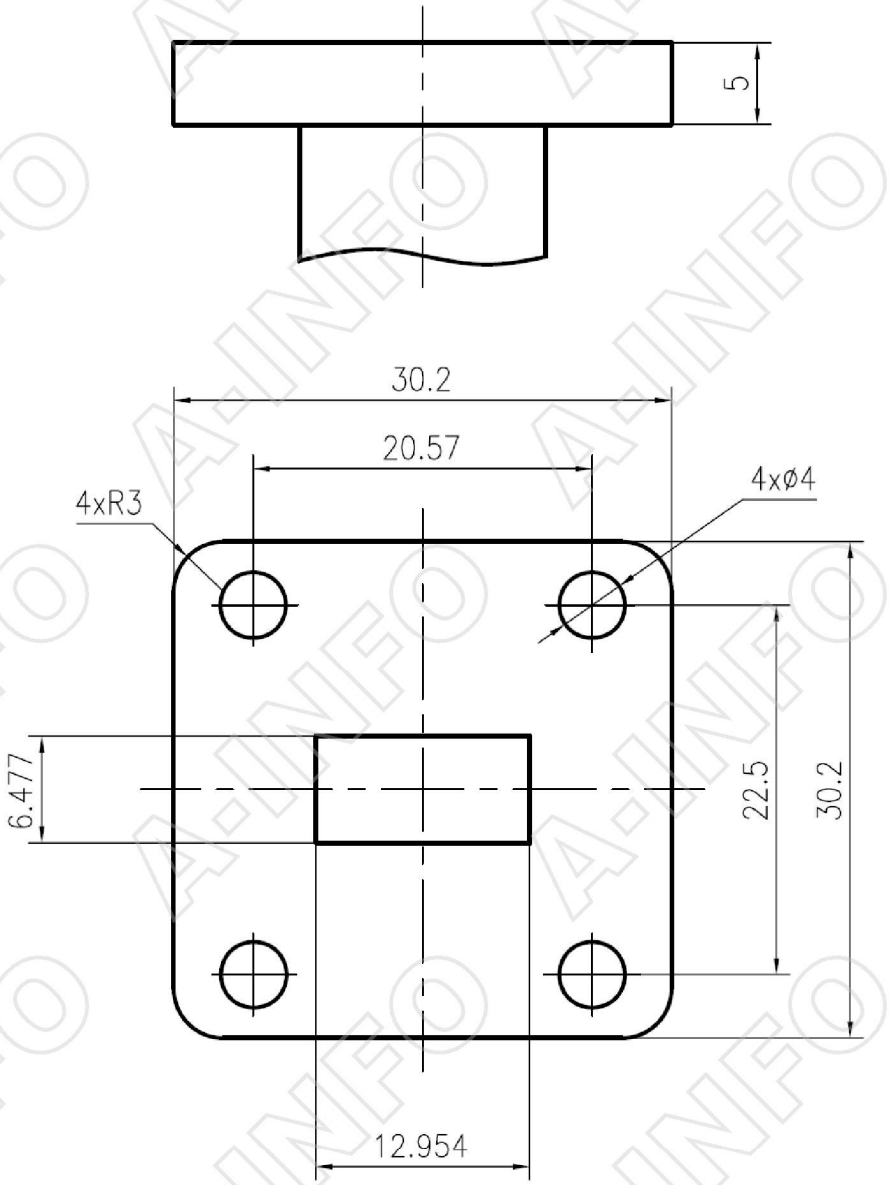
W x H x L: 44x34x60

C Type



W x H x L: 44x34x87

Flange Drawing (Size: mm)



FBP180

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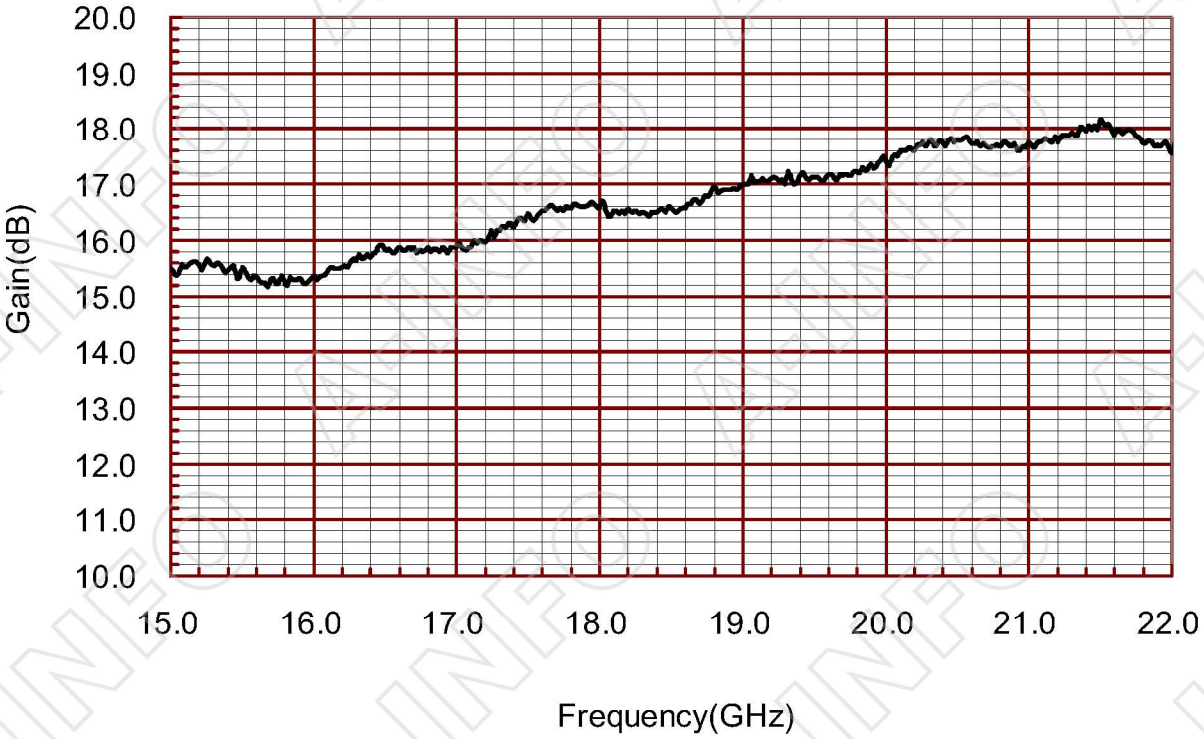
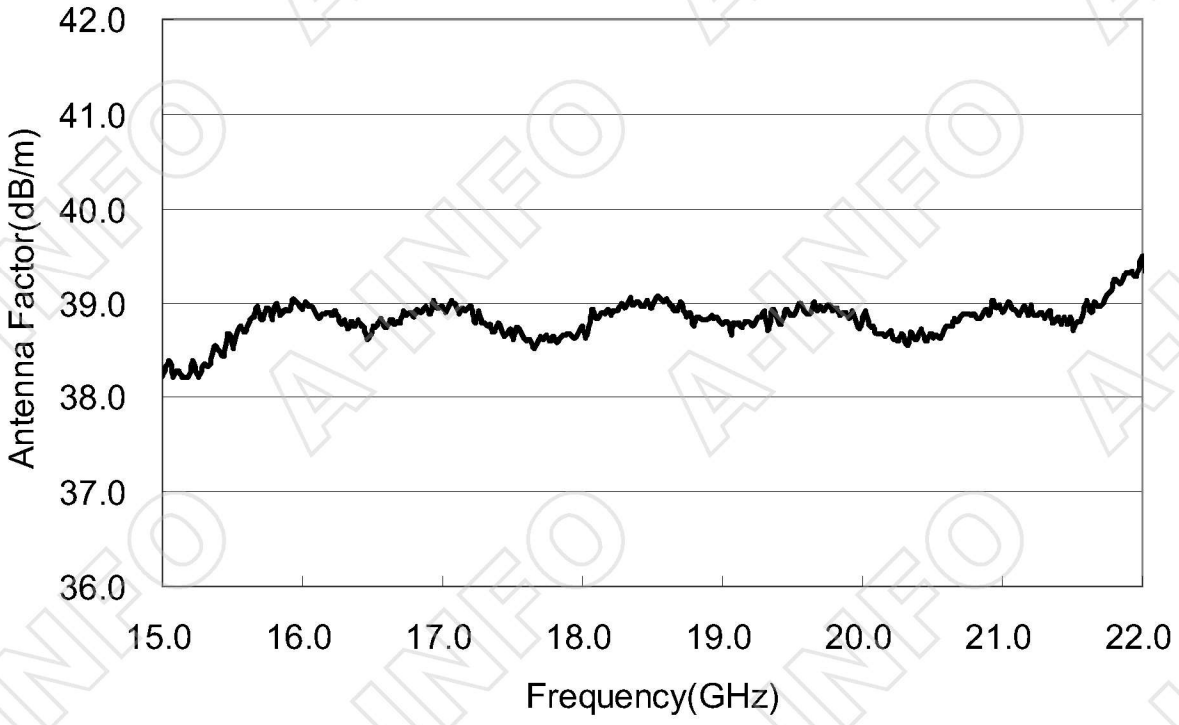
Test Results

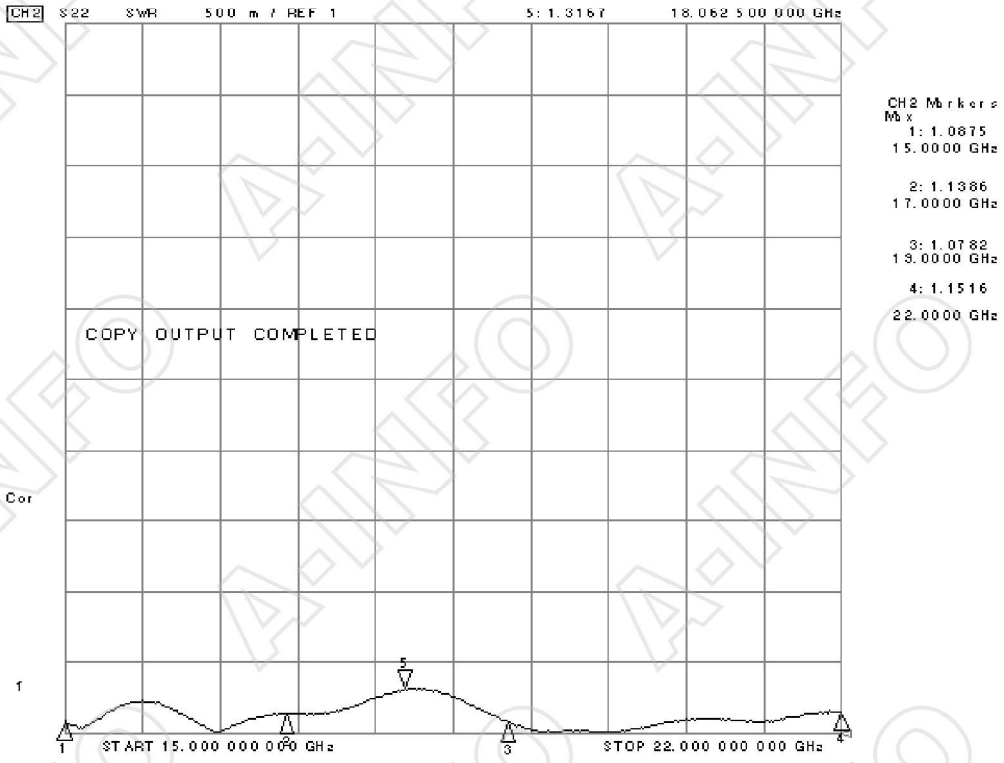
1. Gain & Antenna Factor



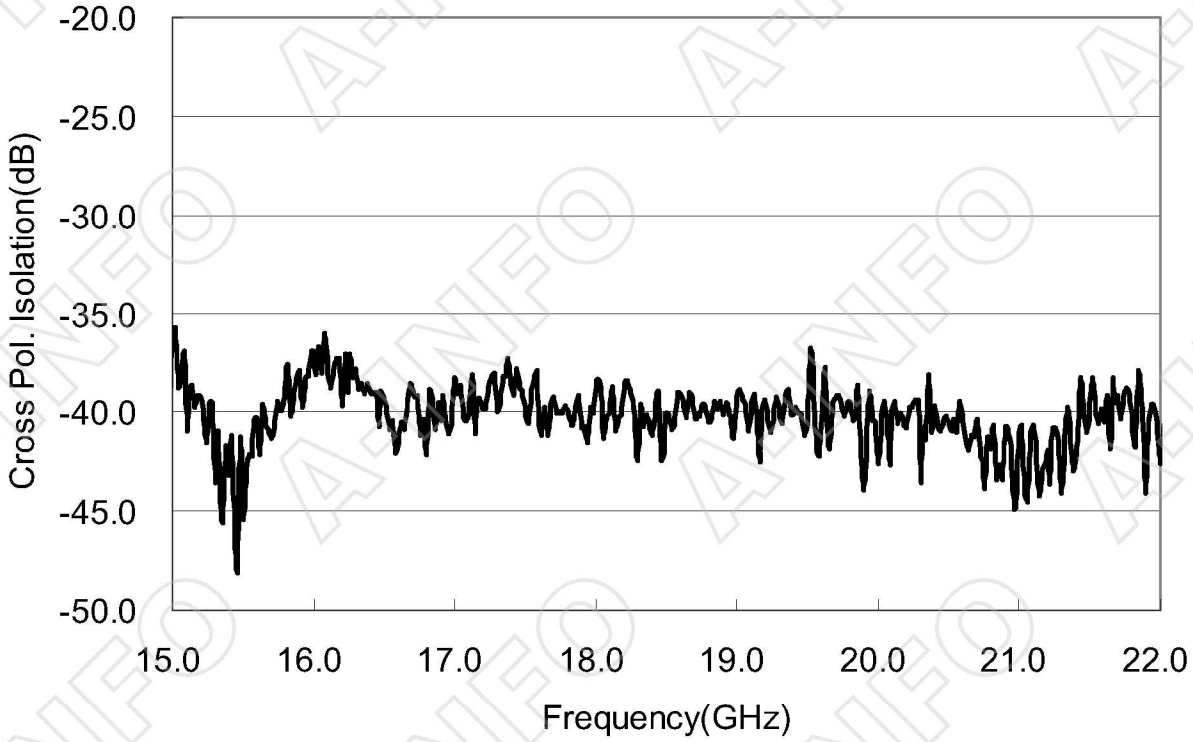


Frequency(GHz)	Gain(dB)	Antenna Factor(dB/m)
15.0	15.49	38.24
15.5	15.51	38.51
16.0	15.36	38.94
16.5	15.81	38.75
17.0	15.86	38.95
17.5	16.46	38.61
18.0	16.56	38.75
18.5	16.57	38.99
19.0	17.01	38.77
19.5	17.14	38.87
20.0	17.41	38.82
20.5	17.81	38.63
21.0	17.76	38.90
21.5	18.15	38.71
22.0	17.56	39.50

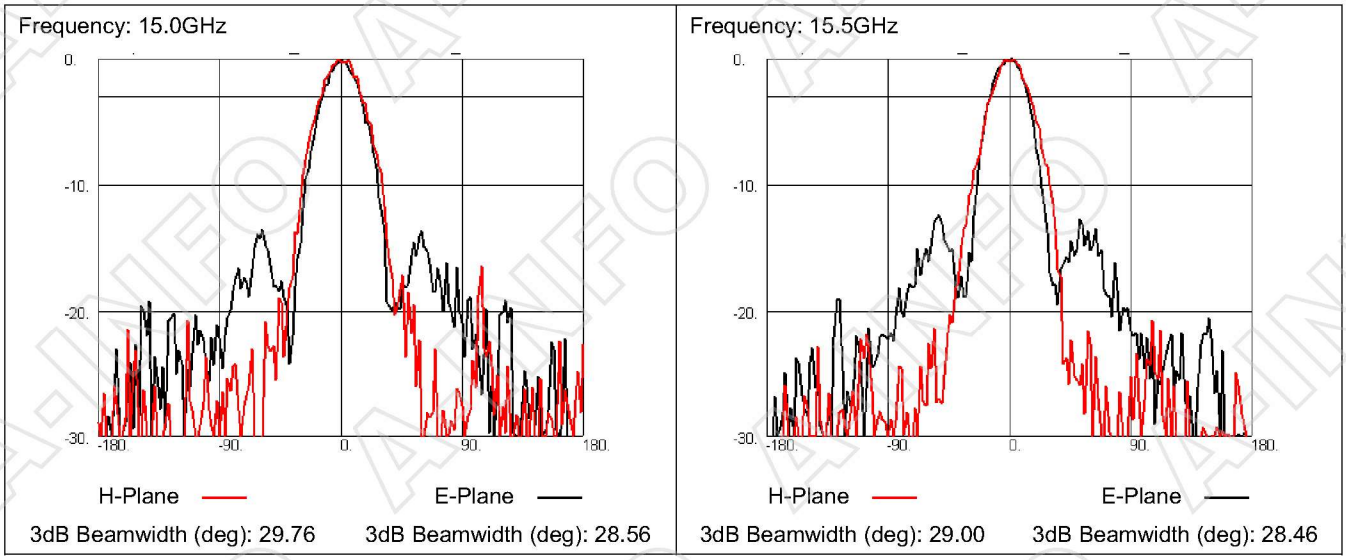
2. VSWR



3. Cross Polarization Isolation



4. Pattern



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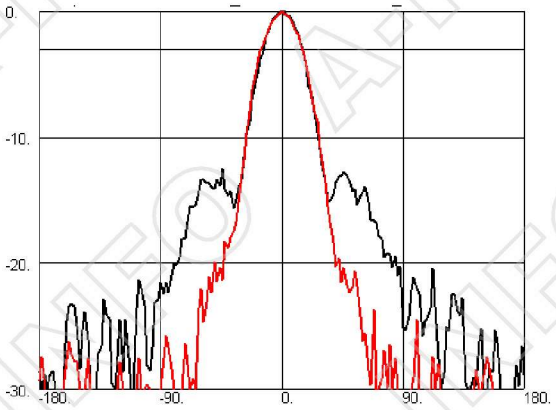
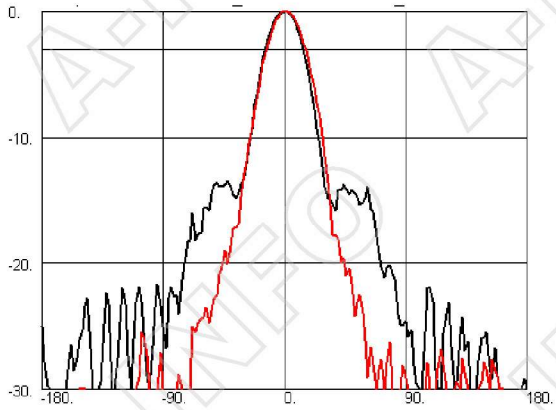
Frequency: 16.0GHz



H-Plane — E-Plane —

3dB Beamwidth (deg): 30.50 3dB Beamwidth (deg): 28.75

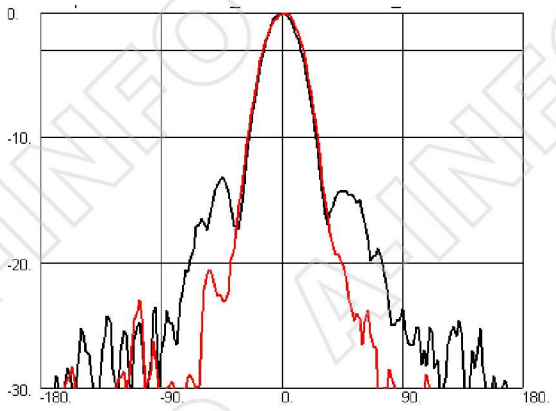
Frequency: 16.5GHz



H-Plane — E-Plane —

3dB Beamwidth (deg): 29.07 3dB Beamwidth (deg): 28.44

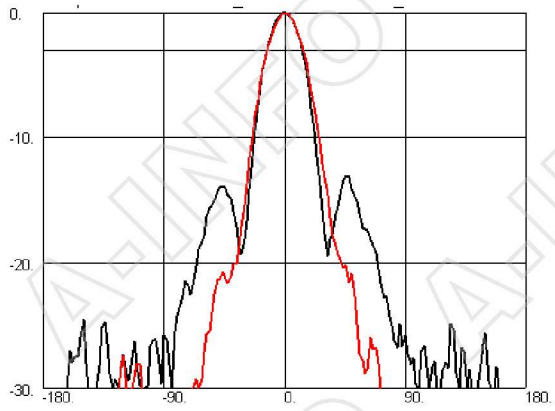
Frequency: 17.0GHz



H-Plane — E-Plane —

3dB Beamwidth (deg): 30.27 3dB Beamwidth (deg): 27.62

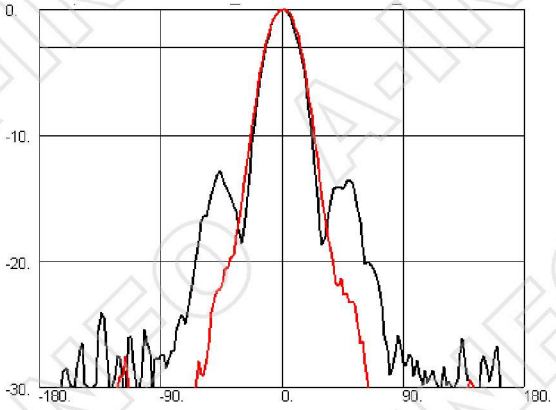
Frequency: 17.5GHz



H-Plane — E-Plane —

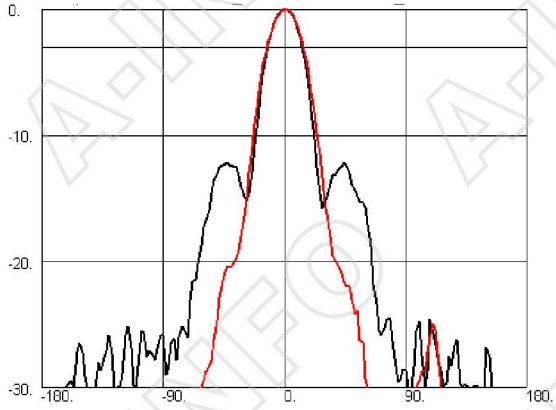
3dB Beamwidth (deg): 27.10 3dB Beamwidth (deg): 26.53

Frequency: 18.0GHz



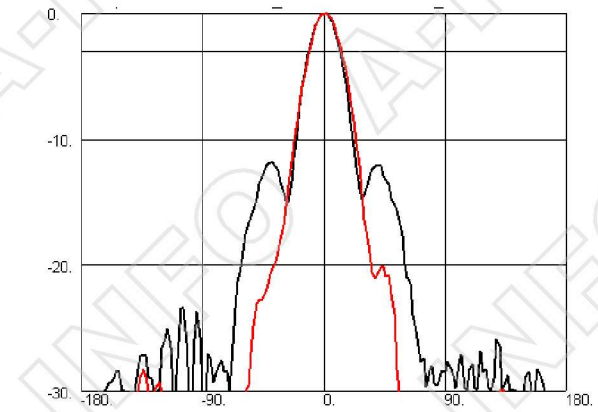
H-Plane — E-Plane —

Frequency: 18.5GHz



H-Plane — E-Plane —

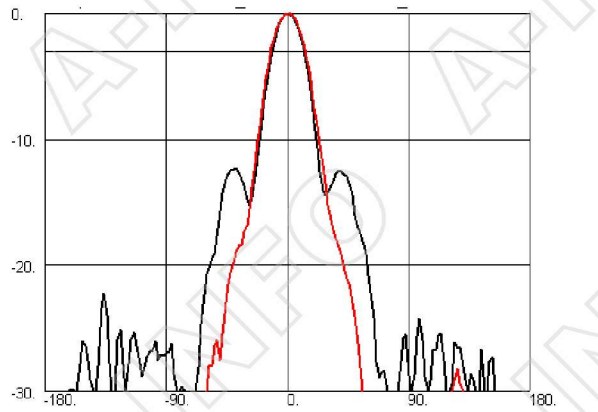
Frequency: 19.0GHz



H-Plane — E-Plane —

3dB Beamwidth (deg): 23.92 3dB Beamwidth (deg): 23.49

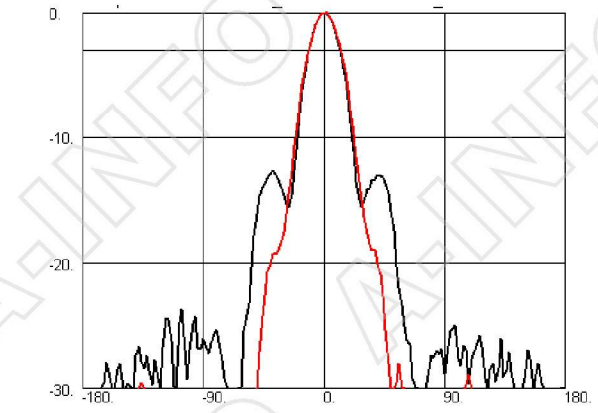
Frequency: 19.5GHz



H-Plane — E-Plane —

3dB Beamwidth (deg): 25.72 3dB Beamwidth (deg): 23.56

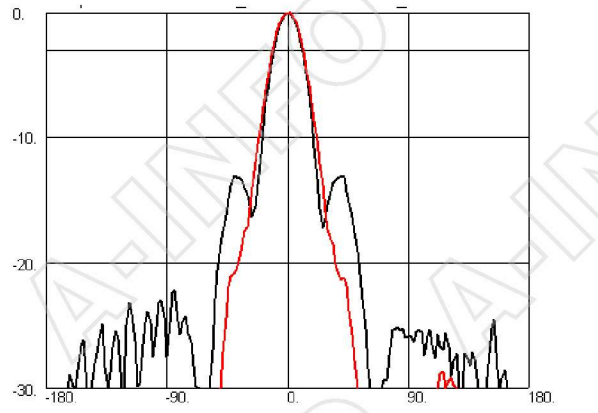
Frequency: 20.0GHz



H-Plane — E-Plane —

3dB Beamwidth (deg): 23.90 3dB Beamwidth (deg): 23.32

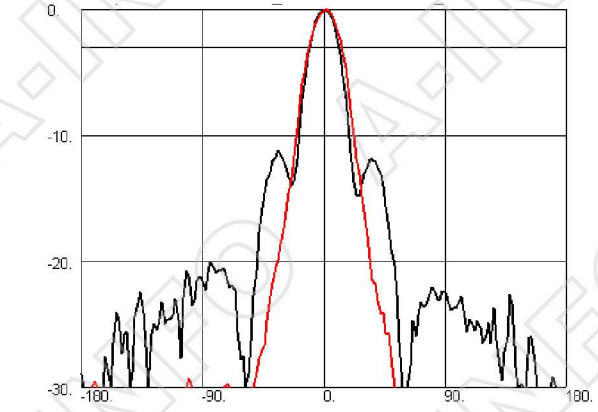
Frequency: 20.5GHz



H-Plane — E-Plane —

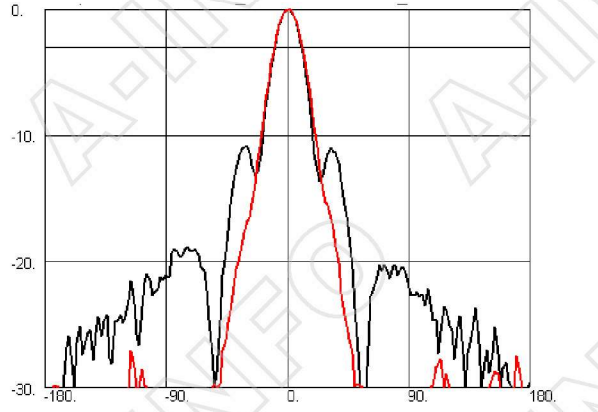
3dB Beamwidth (deg): 23.12 3dB Beamwidth (deg): 21.39

Frequency: 21.0GHz



H-Plane — E-Plane —

Frequency: 21.5GHz



H-Plane — E-Plane —

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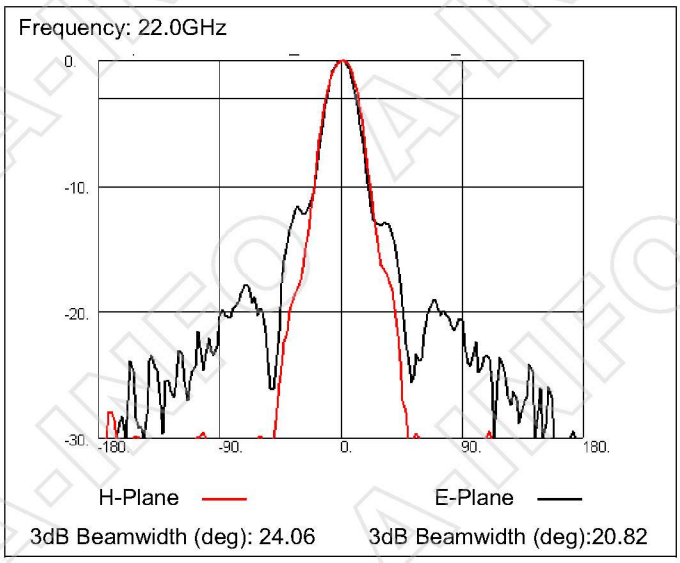
Frequency: 22.0GHz
0.
-10.
-20.
-30.
-180.
-90.
0.
90.
180.
H-Plane
E-Plane
3dB Beamwidth (deg): 24.06
3dB Beamwidth (deg):20.82

A-INFO