

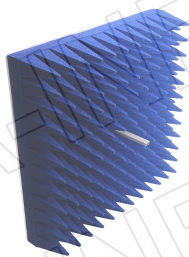
For reference only. See data sheet for the detailed specifications.

Technical Specification

42EWG



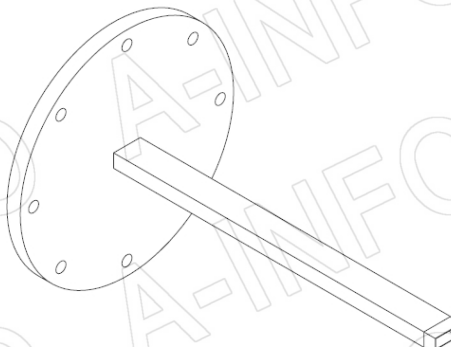
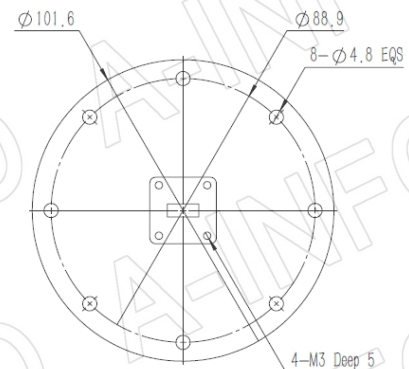
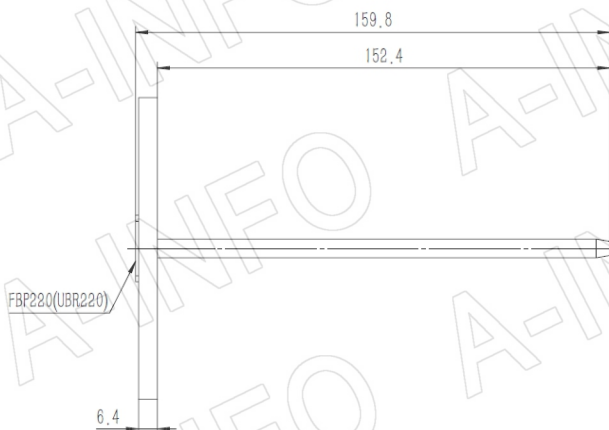
42EWG-A1



Frequency Range(GHz)	18.0 - 26.5
Waveguide	WR42
Gain(dBi)	5 Typ.
Polarization	Linear
3dB Beamwidth(deg)	E Plane: 106 Typ.
	H Plane: 56 Typ.
Cross Pol. Isolation(dB)	35 Typ.
VSWR	1.8:1 Typ.
Output	FBP220(UBR220)
Material	Cu
Finish	Sliver Plated, Gray Paint
Size(mm)	42EWG: 101.6 x 101.6 x 159.8
	42EWG-A1: 399.6 x 399.6 x 159.8
Net Weight(Kg)	42EWG: 0.45 Around
	42EWG-A1: 2.70 Around

Outline Drawing (Size: mm)

FBP220 Output (P/N: 42EWG)



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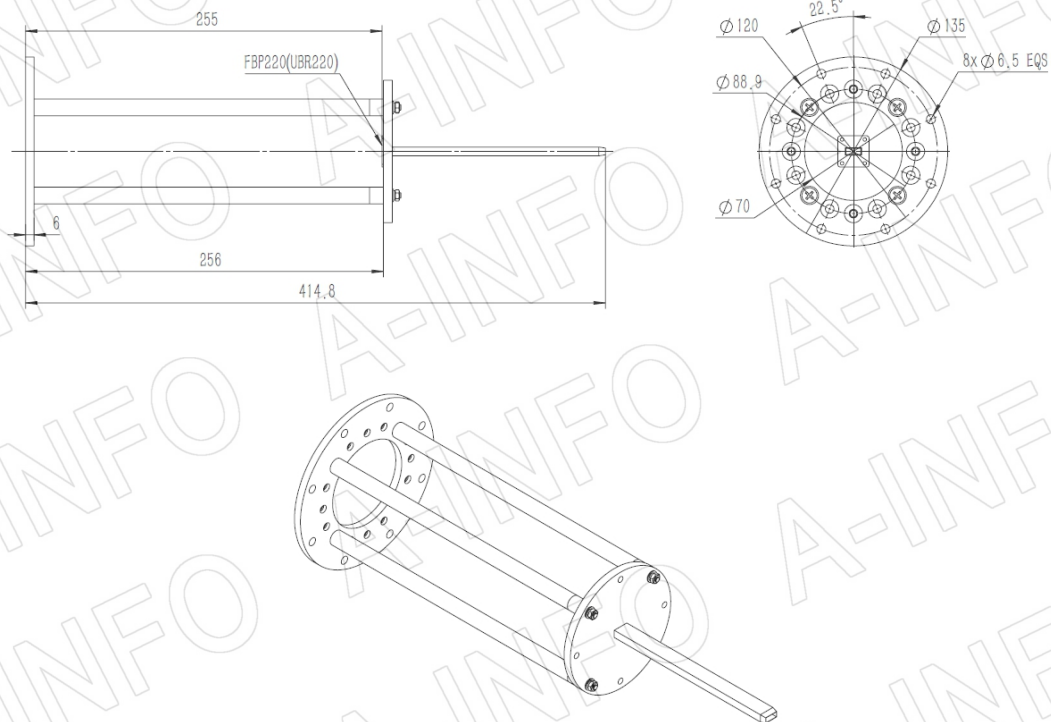
China(Beijing): Tel: (+86) 10-6266-7326,
China(Chengdu): Tel: (+86) 28-8519-2786,
USA : Tel: (+1) 949-639-9688,

(+86) 10-6266-7327
(+86) 28-8519-3044
(+1) 949-639-9608

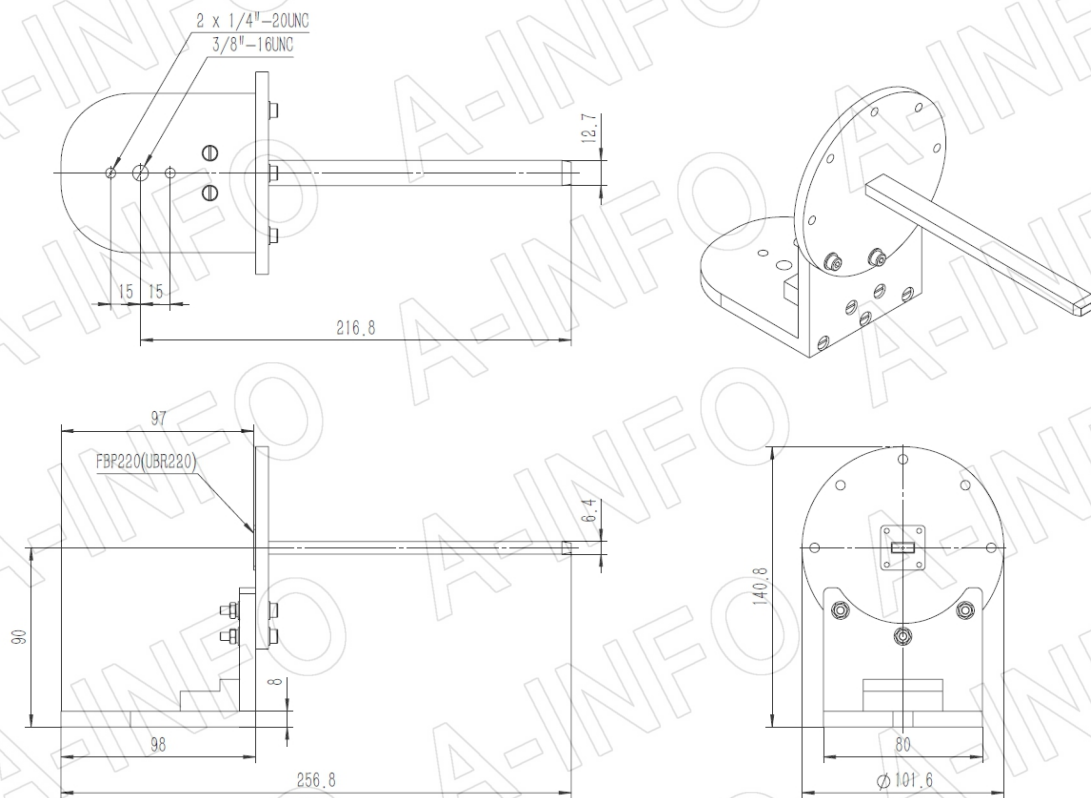
Fax: (+86) 10-6266-7379
Fax: (+86) 28-8519-3068
Fax: (+1) 949-639-9670

Website: www.ainfoinc.com
Email: sales@ainfoinc.com

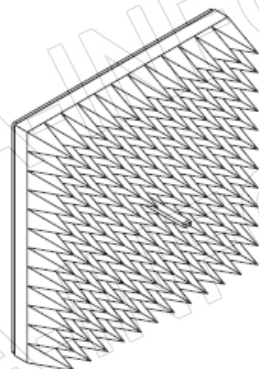
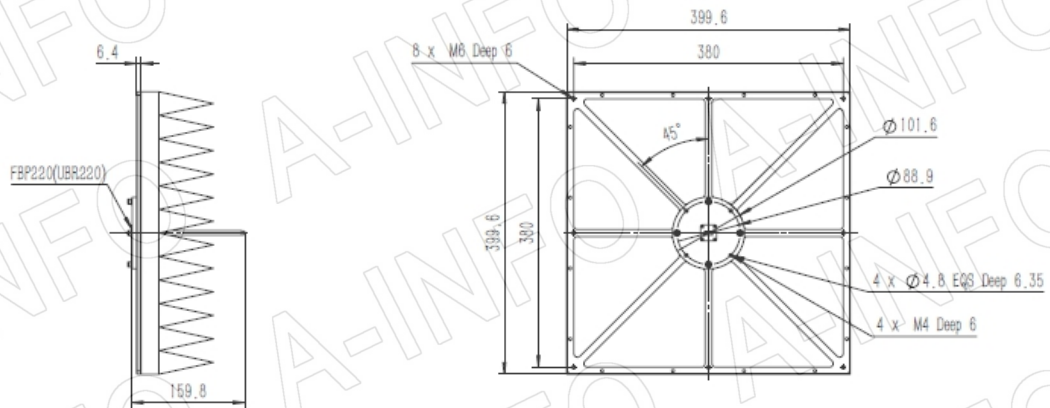
FBP220 Output with Round Mounting Bracket (Option, P/N: EWG-MB40)



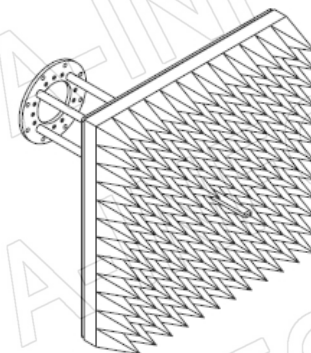
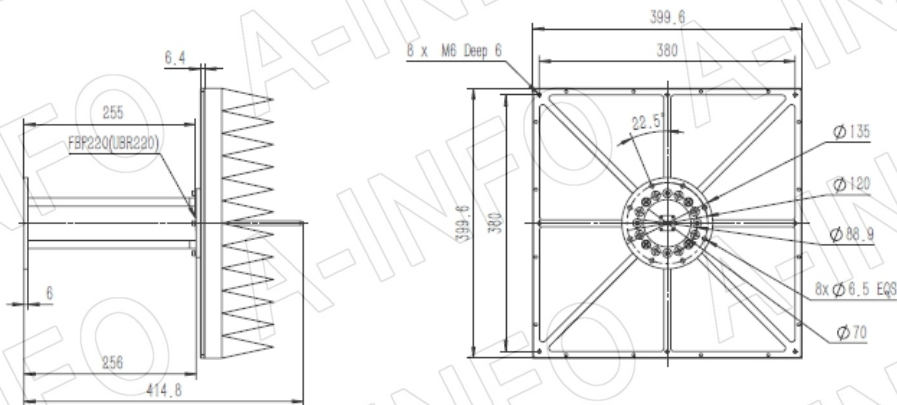
BP220 Output with L Type Mounting Bracket (Option, P/N: EWG-L30/FRP)



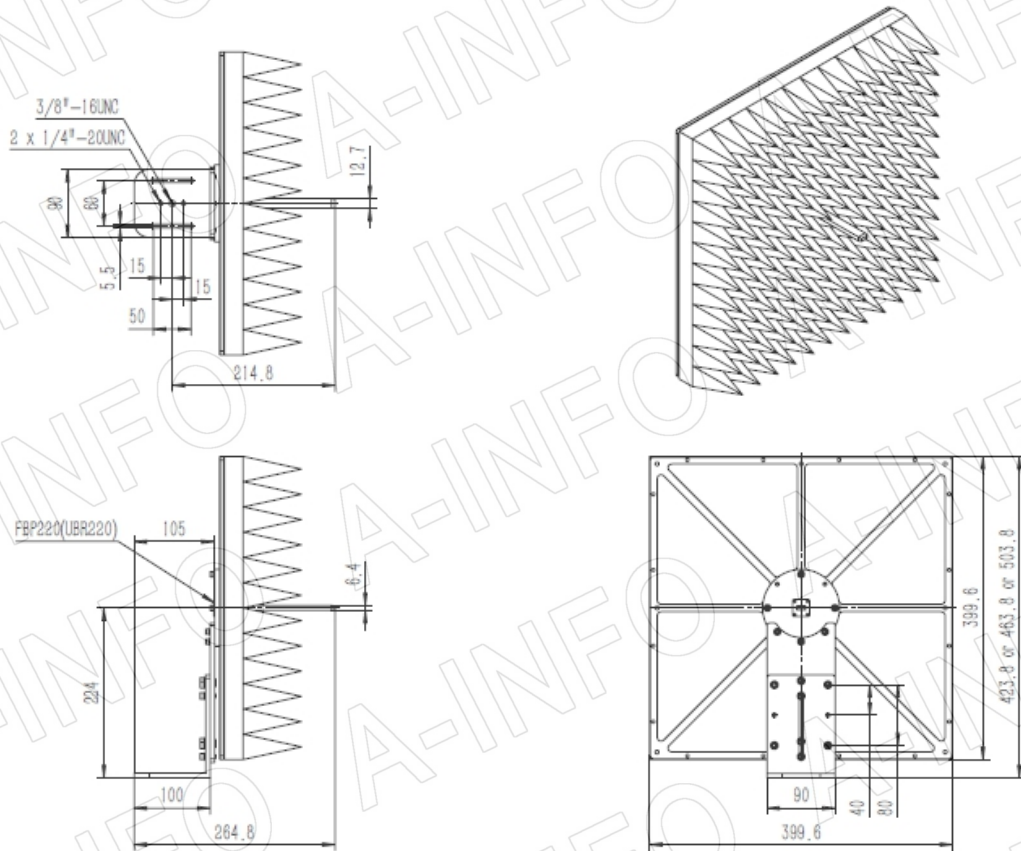
FBP220 Output, Equipped with Absorber (Option, P/N: 42EWG-A1)



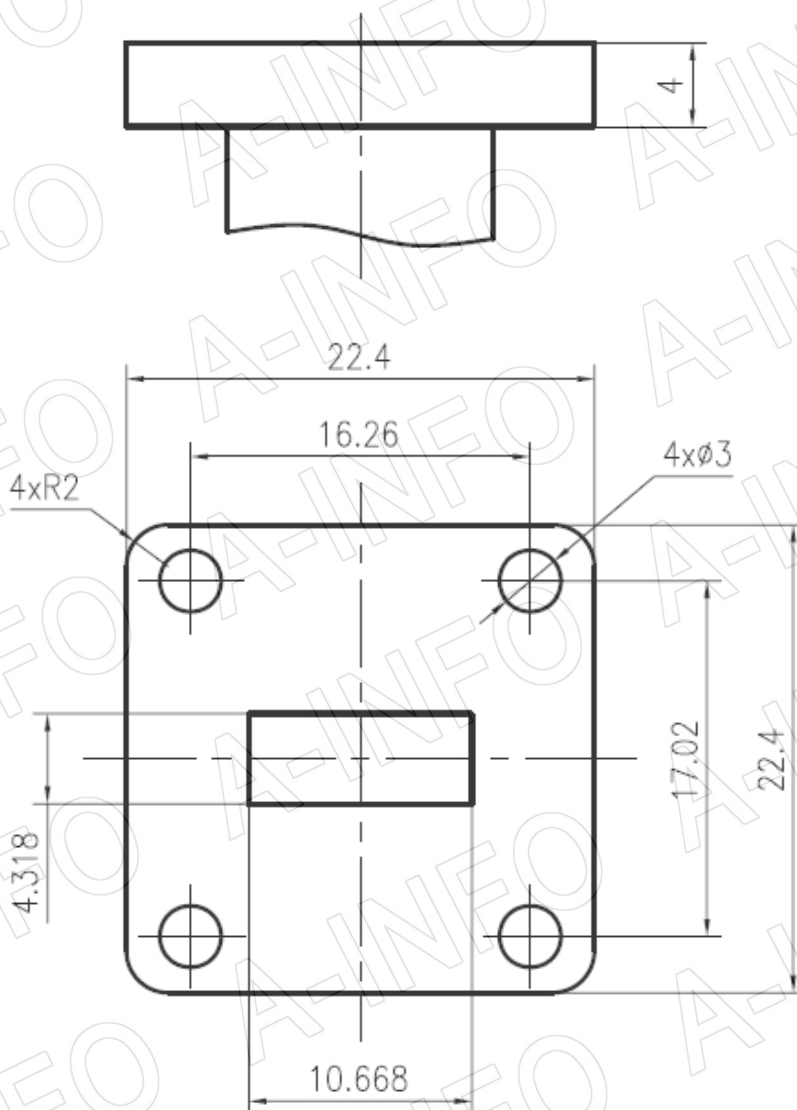
FBP220 Output with Round Mounting Bracket, Equipped with Absorber (Option, P/N: EWG-MB40 & 42EWG-A1)



FBP220 Output with L Type Mounting Bracket, Equipped with Absorber (Option, P/N: EWG-L40 & 42EWG-A1)



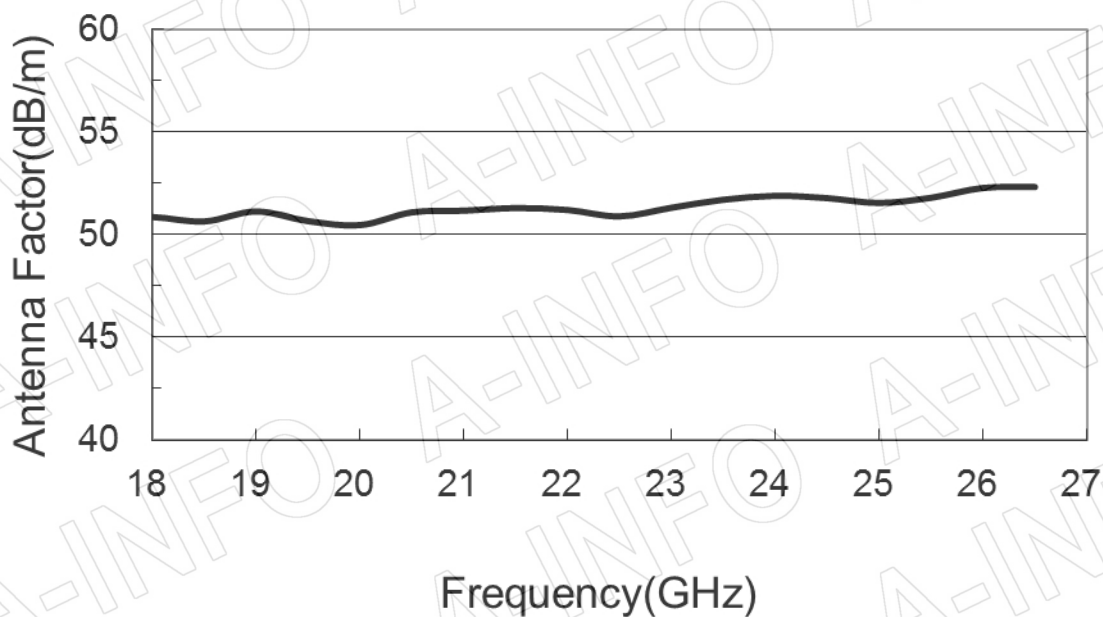
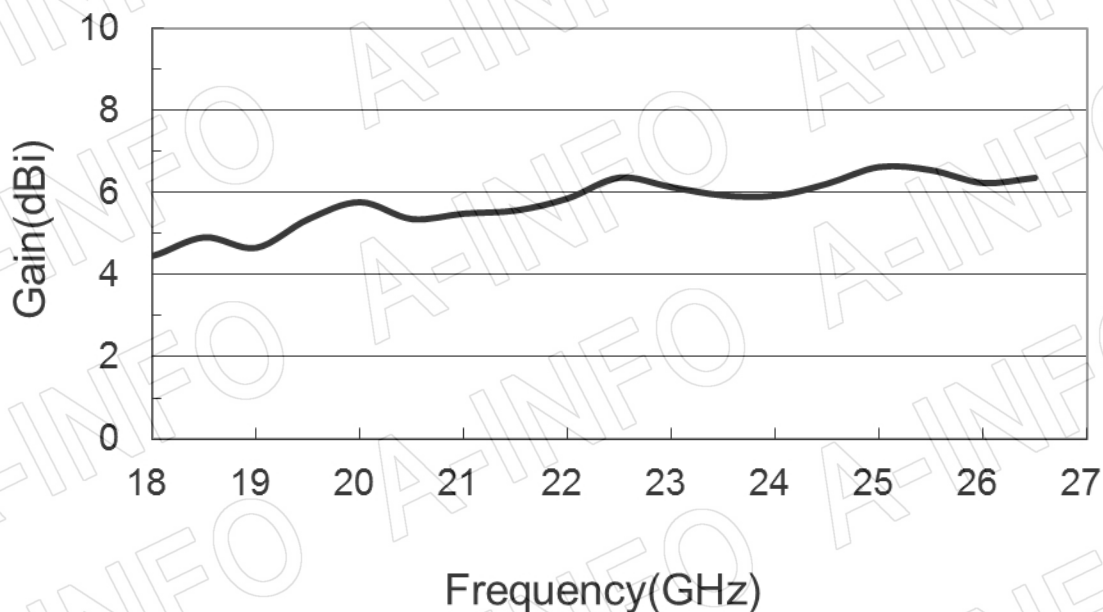
Flange Drawing (Size: mm)



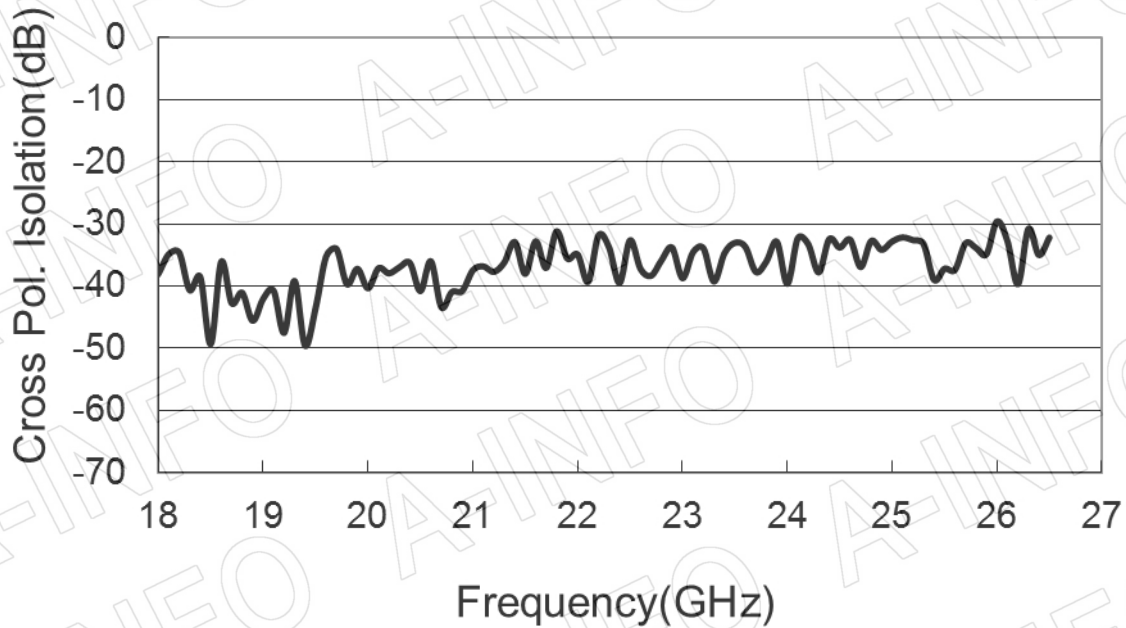
FBP220

Test Results

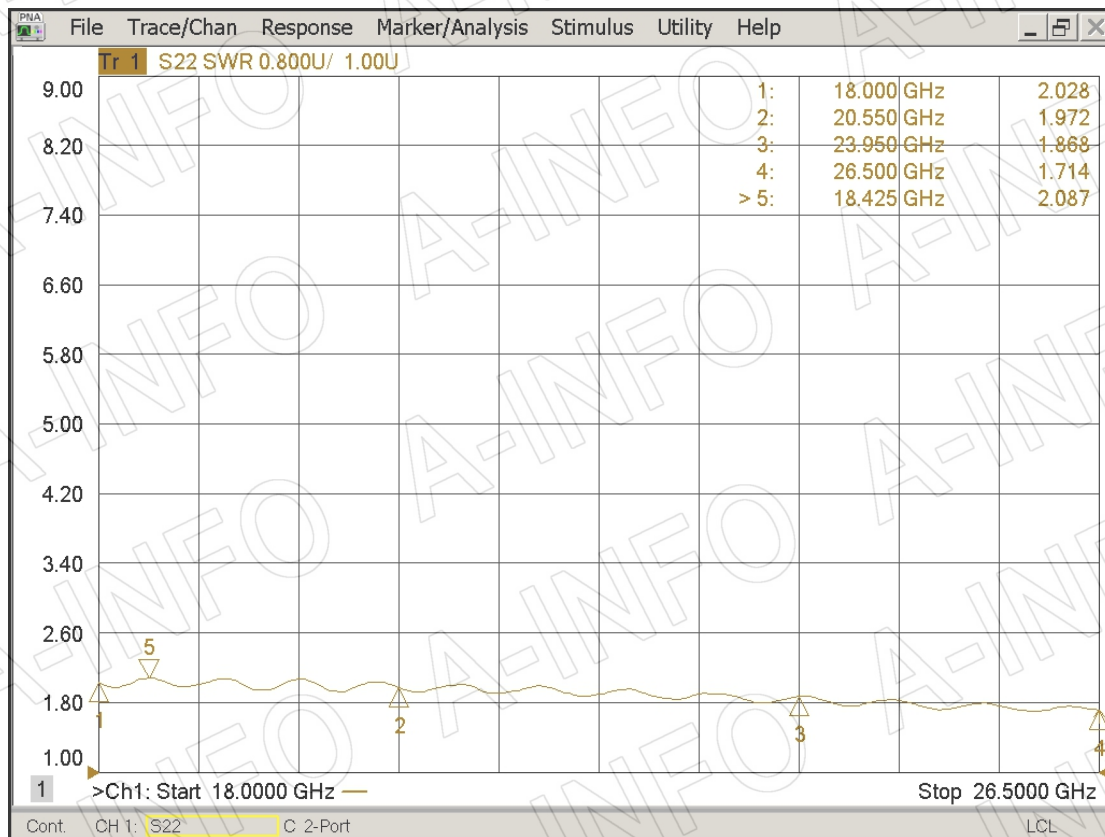
1. Gain & Antenna Factor



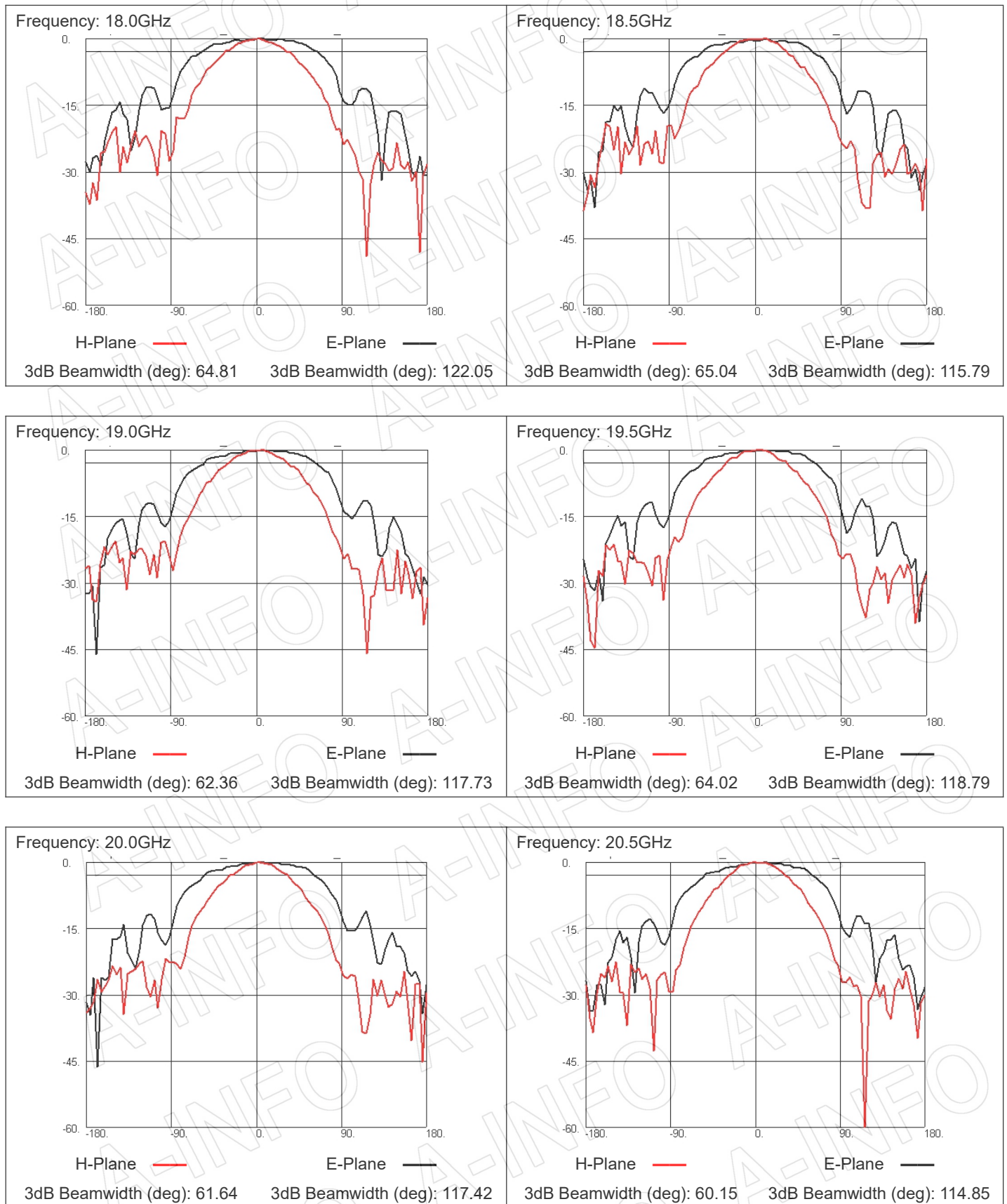
2. Cross Polarization Isolation



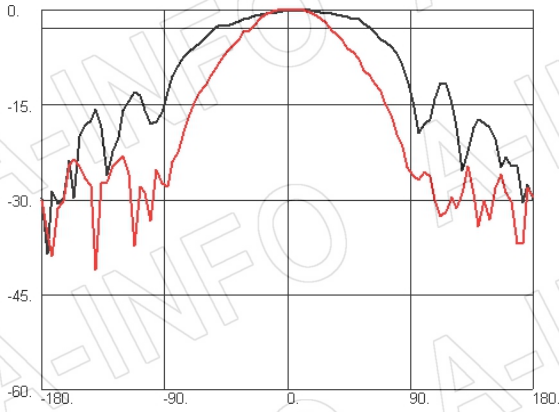
3. VSWR



4. Pattern

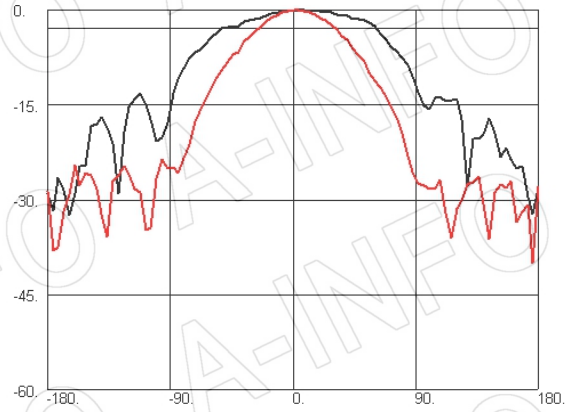


Frequency: 21.0GHz



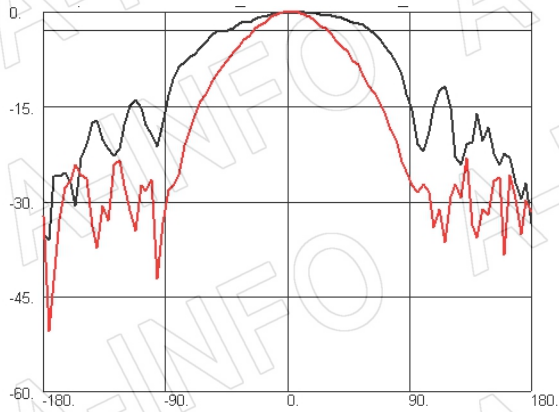
H-Plane — E-Plane —
3dB Beamwidth (deg): 58.29 3dB Beamwidth (deg): 115.02

Frequency: 21.5GHz



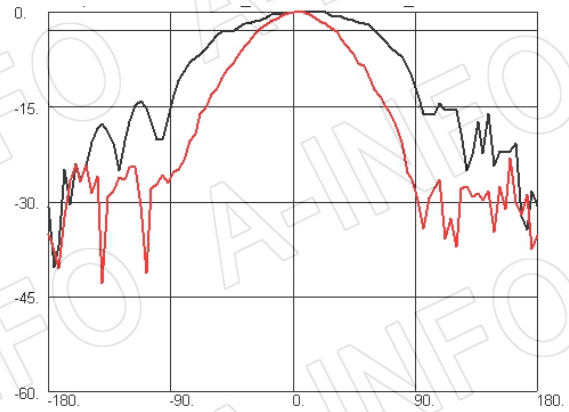
H-Plane — E-Plane —
3dB Beamwidth (deg): 57.10 3dB Beamwidth (deg): 113.21

Frequency: 22.0GHz



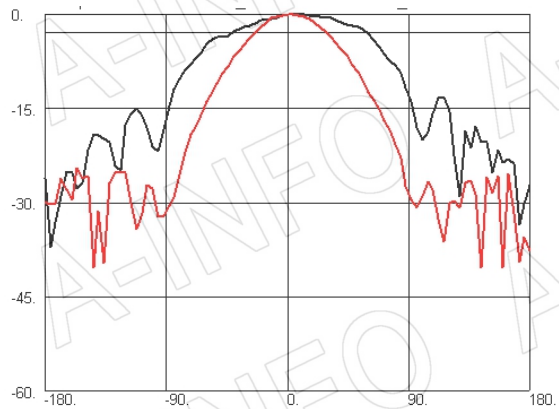
H-Plane — E-Plane —
3dB Beamwidth (deg): 55.54 3dB Beamwidth (deg): 108.26

Frequency: 22.5GHz



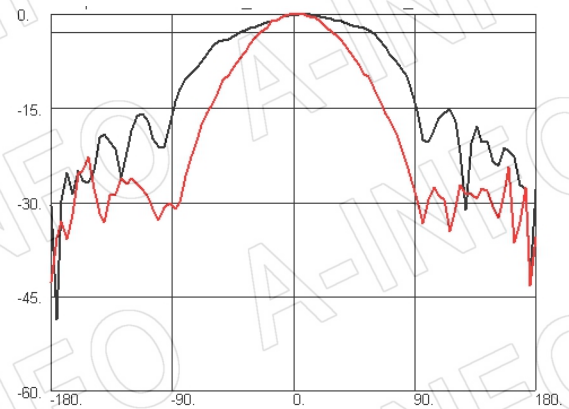
H-Plane — E-Plane —
3dB Beamwidth (deg): 57.00 3dB Beamwidth (deg): 104.14

Frequency: 23.0GHz



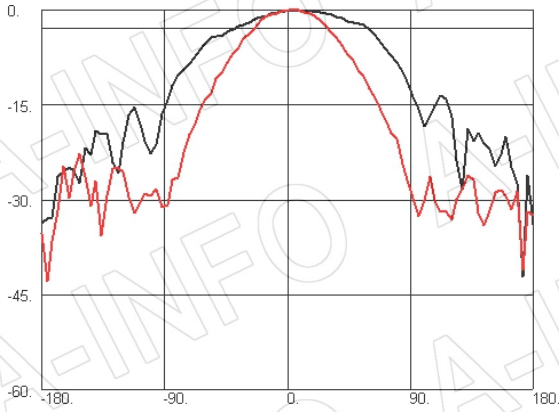
H-Plane — E-Plane —
3dB Beamwidth (deg): 53.91 3dB Beamwidth (deg): 101.33

Frequency: 23.5GHz



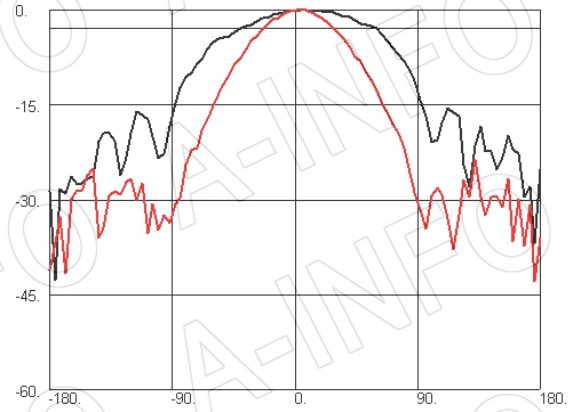
H-Plane — E-Plane —
3dB Beamwidth (deg): 54.89 3dB Beamwidth (deg): 99.95

Frequency: 24.0GHz



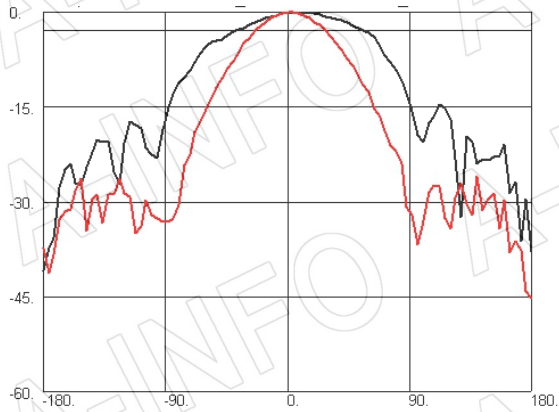
H-Plane — 3dB Beamwidth (deg): 54.19 E-Plane — 3dB Beamwidth (deg): 99.64

Frequency: 24.5GHz



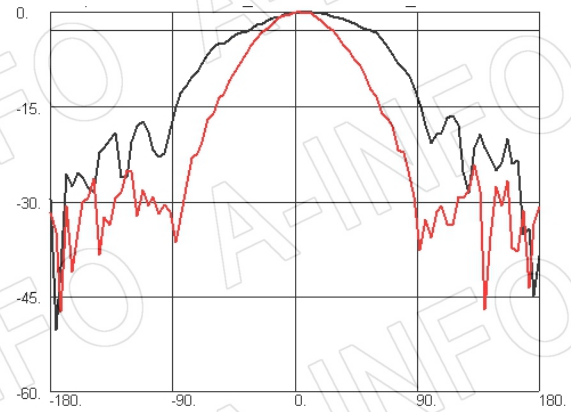
H-Plane — 3dB Beamwidth (deg): 52.19 E-Plane — 3dB Beamwidth (deg): 101.08

Frequency: 25.0GHz



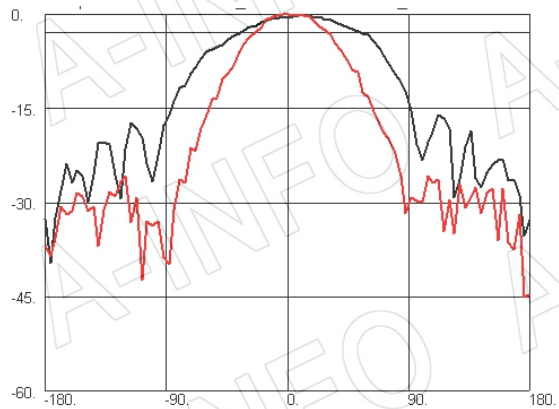
H-Plane — 3dB Beamwidth (deg): 52.84 E-Plane — 3dB Beamwidth (deg): 96.35

Frequency: 25.5GHz



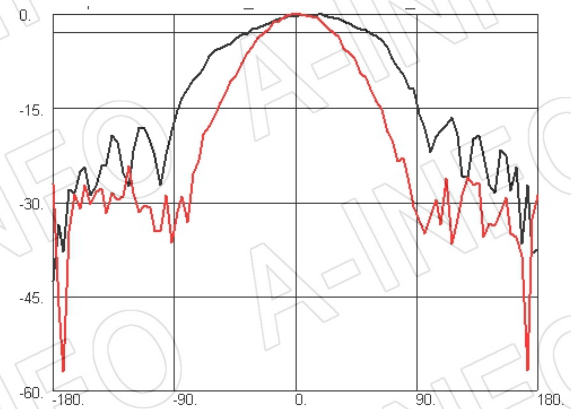
H-Plane — 3dB Beamwidth (deg): 51.14 E-Plane — 3dB Beamwidth (deg): 92.51

Frequency: 26.0GHz



H-Plane — 3dB Beamwidth (deg): 55.43 E-Plane — 3dB Beamwidth (deg): 90.08

Frequency: 26.5GHz



H-Plane — 3dB Beamwidth (deg): 51.72 E-Plane — 3dB Beamwidth (deg): 90.47