

Synergy Telecom P Ltd.

Dual Polarization Horn Antenna 1.0~10.0GHz

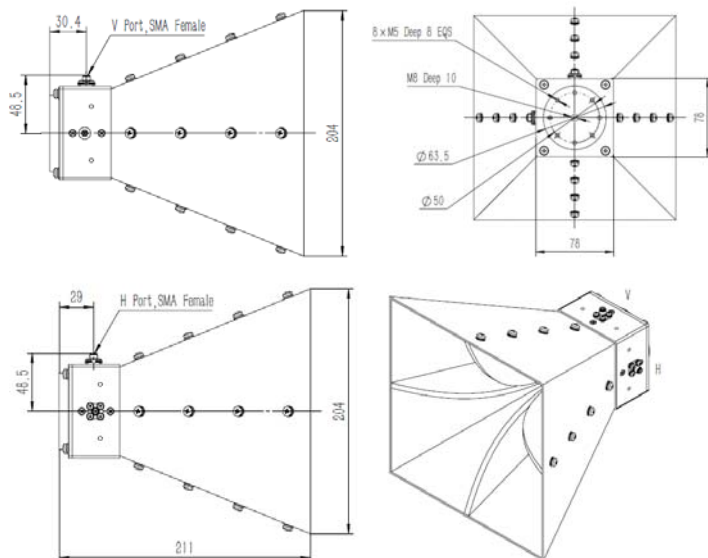


Technical Specification

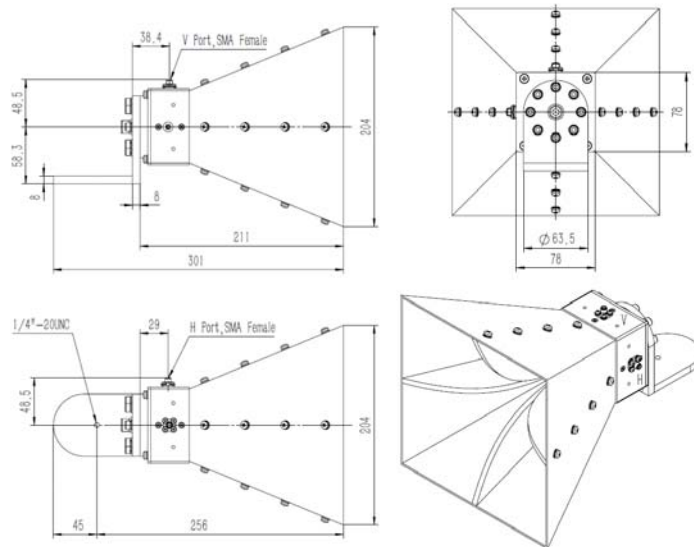
Frequency Range(GHz)	1 - 10
Gain(dBi)	10 Typ.
Polarization	Dual Pol.
3dB Beamwidth(deg)	80-10
Cross Pol. Isolation(dB)	18 Min.
Port to Port Isolation(dB)	20 Min
VSWR	1.5 :1 Typ. / 2.5 :1 Max
Output	SMA-Female/N-Female
Power Handling(W) CW	SMA-Female: 50 Max. CW N-Female: 50 Max. CW
Material	Al
Size(mm)	204 x 204 x 211
Net Weight(Kg)	1.7 Around

Outline Drawing (Size: mm) For N type Female output outline drawing, please contact A-INFO.

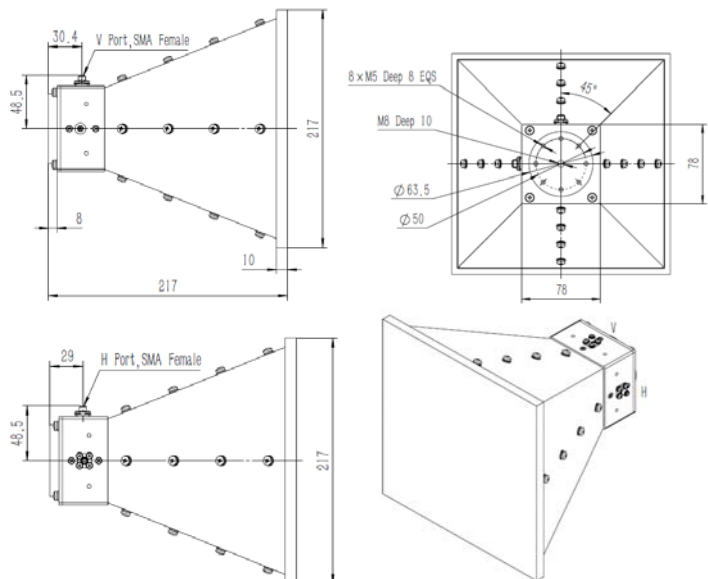
SMA Female Output



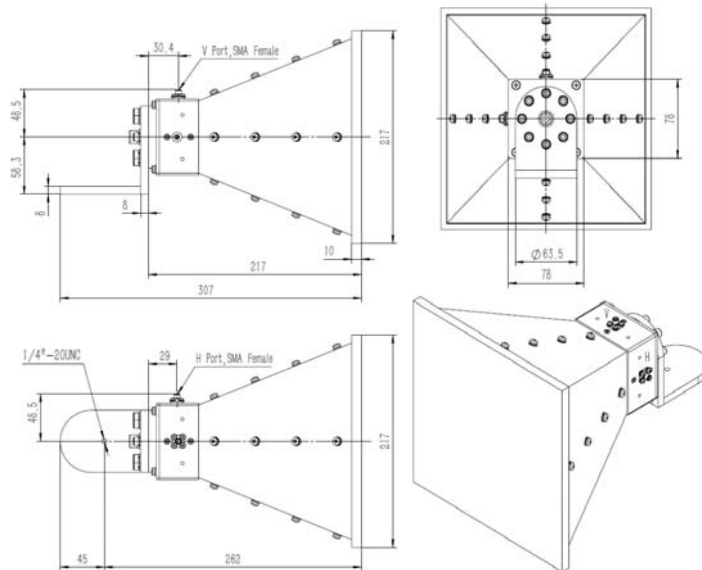
SMA Female Output with L type mounting bracket



SMA Female Output with Radome

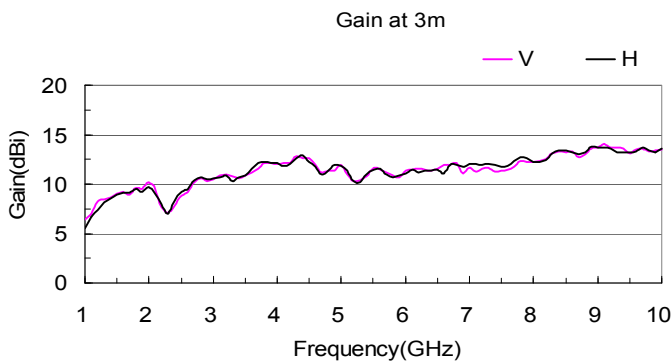
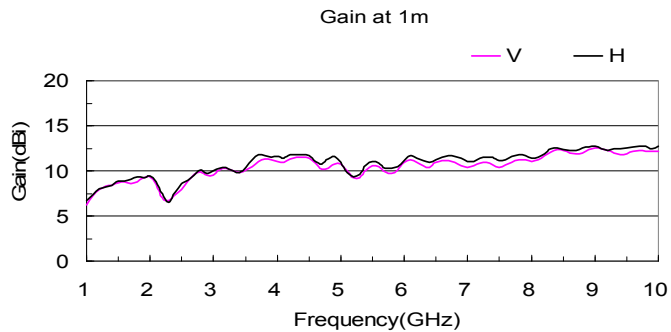


SMA-F Output w/ L type mounting bracket & Radome

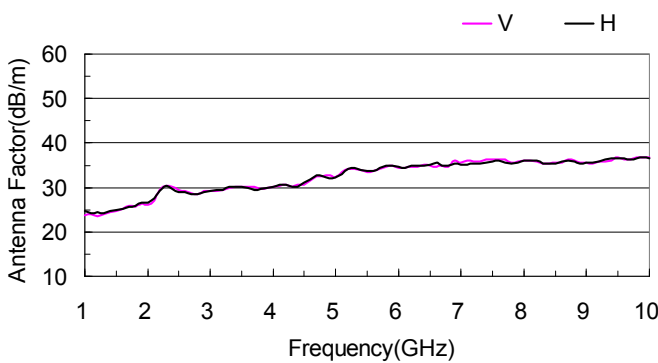
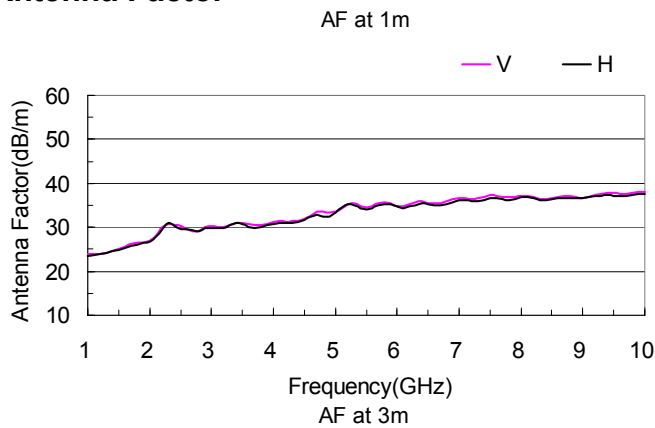


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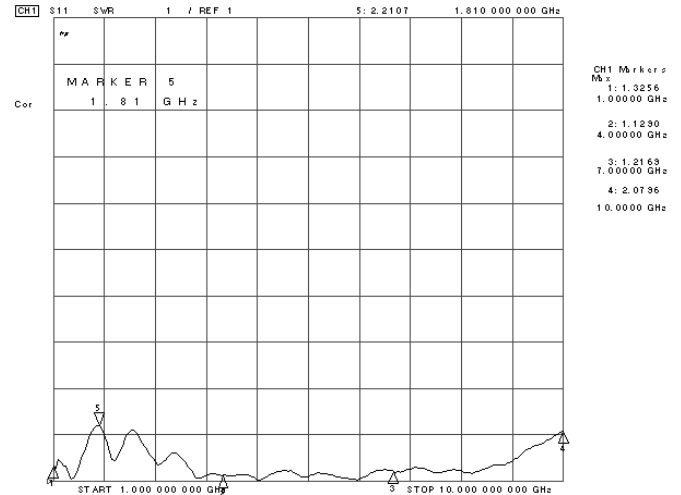
Dual Pol. Horn Antenna 1.0-10.0GHz(continued)



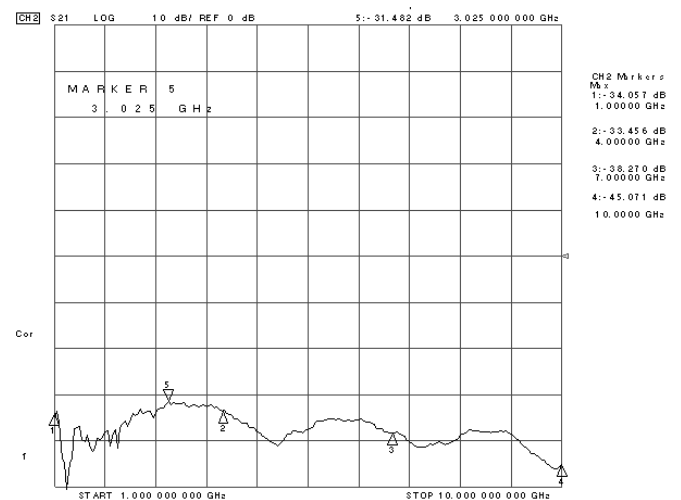
Antenna Factor



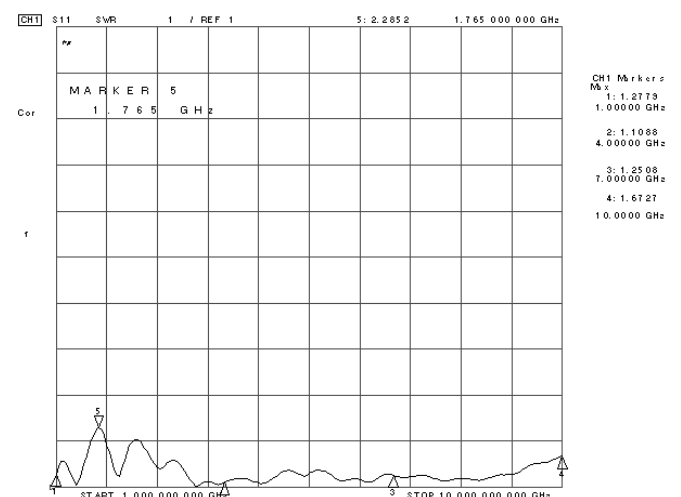
VSWR(Port-V)



VSWR(Port-H)



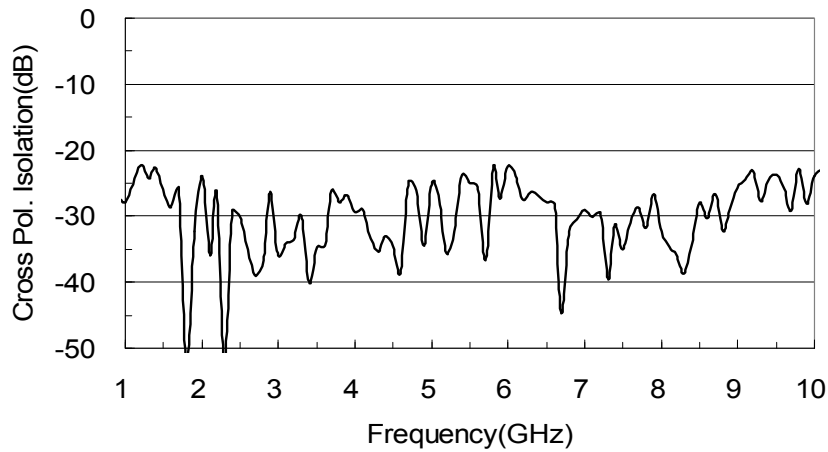
Port to Port Isolation



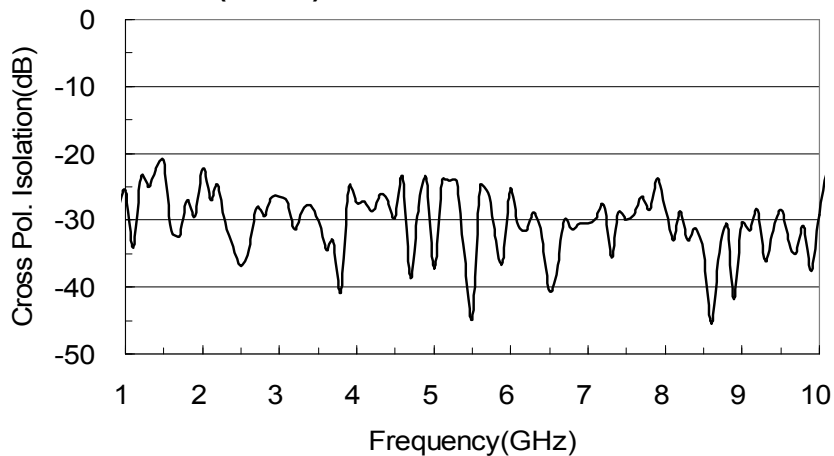
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Dual Pol. Horn Antenna 1.0-10.0GHz

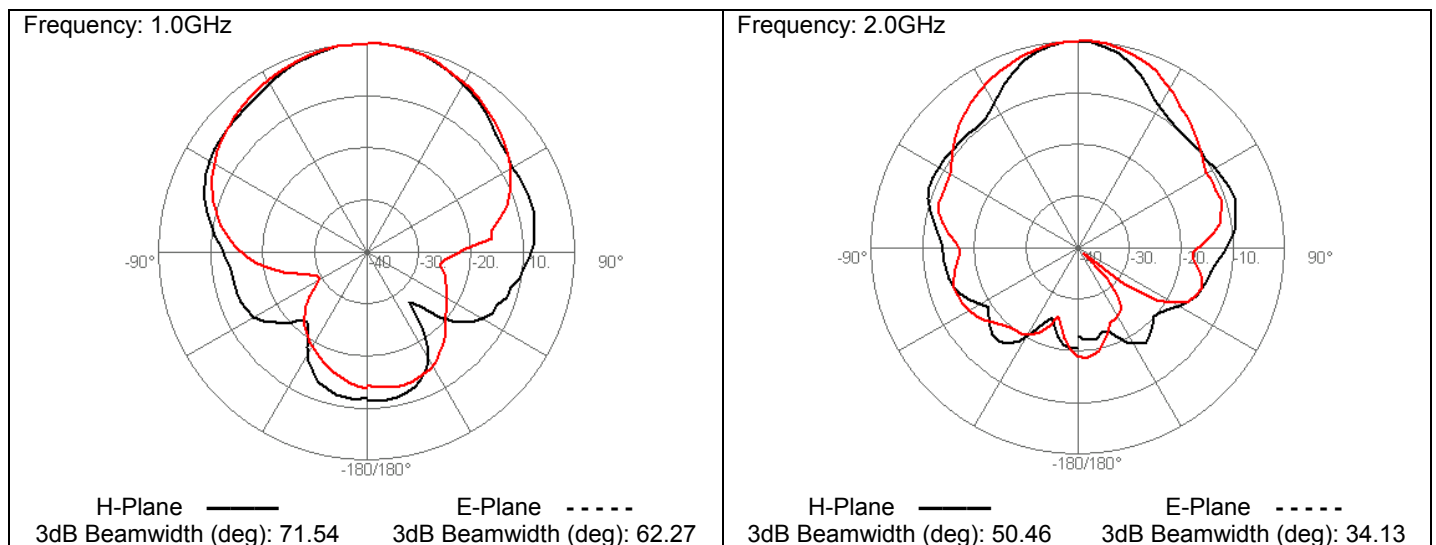
Cross Polarization Isolation(Port-V)



Cross Polarization Isolation(Port-H)



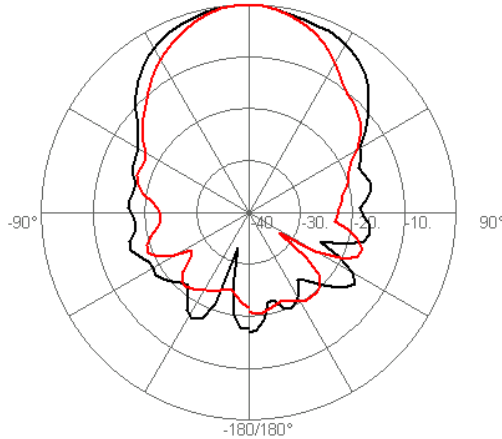
Pattern



Dual Polarization Horn Antenna 1.0-10.0GHz

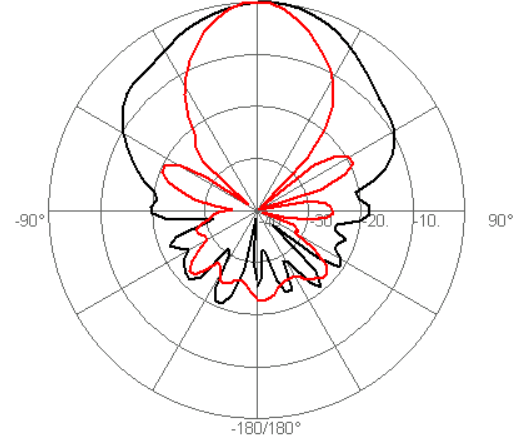
Pattern

Frequency: 3.0GHz



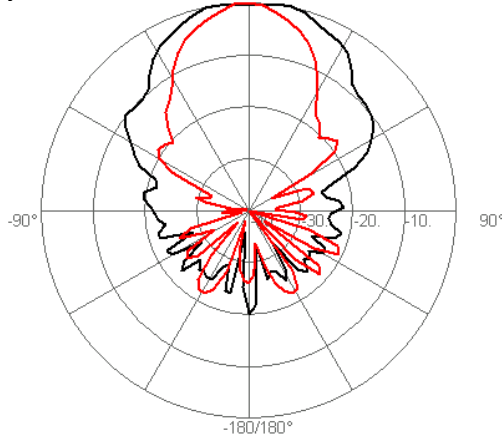
H-Plane — 3dB Beamwidth (deg): 39.25
E-Plane - - - - 3dB Beamwidth (deg): 59.64

Frequency: 4.0GHz



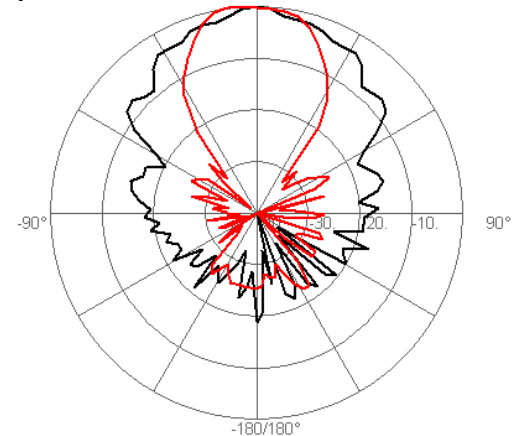
H-Plane — 3dB Beamwidth (deg): 26.23
E-Plane - - - - 3dB Beamwidth (deg): 48.61

Frequency: 6.0GHz



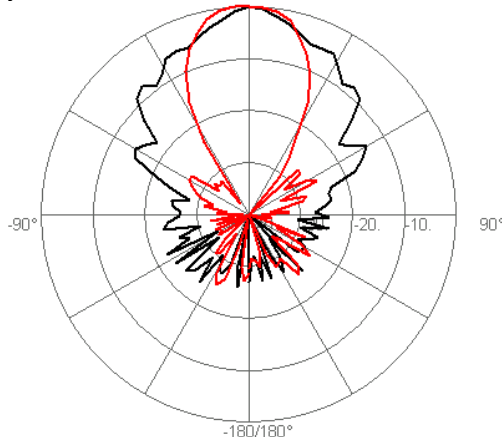
H-Plane — 3dB Beamwidth (deg): 26.50
E-Plane - - - - 3dB Beamwidth (deg): 50.08

Frequency: 8.0GHz



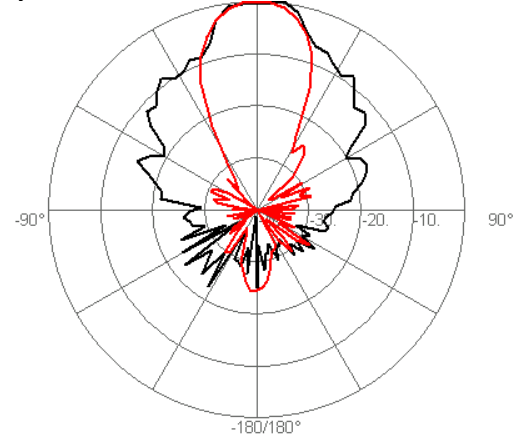
H-Plane — 3dB Beamwidth (deg): 34.14
E-Plane - - - - 3dB Beamwidth (deg): 42.73

Frequency: 9.0GHz



H-Plane — 3dB Beamwidth (deg): 28.22
H-Plane — 3dB Beamwidth (deg): 23.87

Frequency: 10.0GHz



H-Plane — 3dB Beamwidth (deg): 24.94
E-Plane - - - - 3dB Beamwidth (deg): 25.20