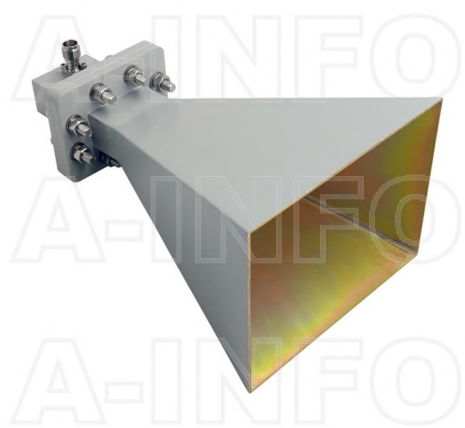


LB-OH-159-15-C-TF Octave Horn Antenna 4-8GHz 15dB Gain TNC Female



Octave Horn Antenna Operating From 4GHz to 8GHz With a Nominal 15dB Gain With TNC Female Connector

### Product Information

SKU	LB-OH-159-15-C-TF
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### Description

Octave horn antenna LB-OH-159-15-C-TF, operating from 4 to 8GHz with a nominal 15dB gain and low VSWR 1.5:1 with TNC Female output connector. The model LB-OH-159-15-C-TF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 150W continuously and 3000W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This octave horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

### Technical Specification

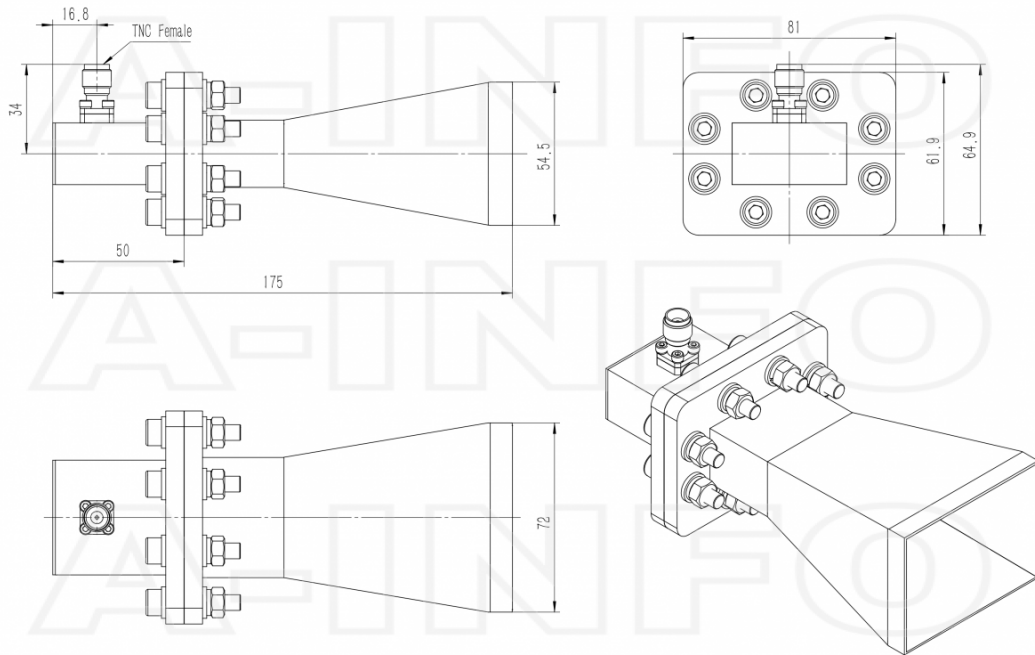
Electrical Specification		Interface	
Frequency, Min (GHz)	4	Output Type	Coaxial
Frequency, Max (GHz)	8	Connector	TNC
Gain, Typ (dBi)	15	Connector Gender	Female
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Min (Deg.)	17	Body Material	Al
3dB Beamwidth, E-Plane, Max (Deg.)	44	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, H-Plane, Min (Deg.)	18	Size, W (mm)	138.1
3dB Beamwidth, H-Plane, Max (Deg.)	40	Size, H (mm)	102.9
Cross Pol. Isolation, Typ (dB)	40	Size, L (mm)	230
VSWR, Typ	1.5:1	Weight, (kg)	0.5
Impedance, (Ohm)	50		
Power Handling, CW, (W)	150		
Power Handling, Peak, (W)	3000		

## Additional Information

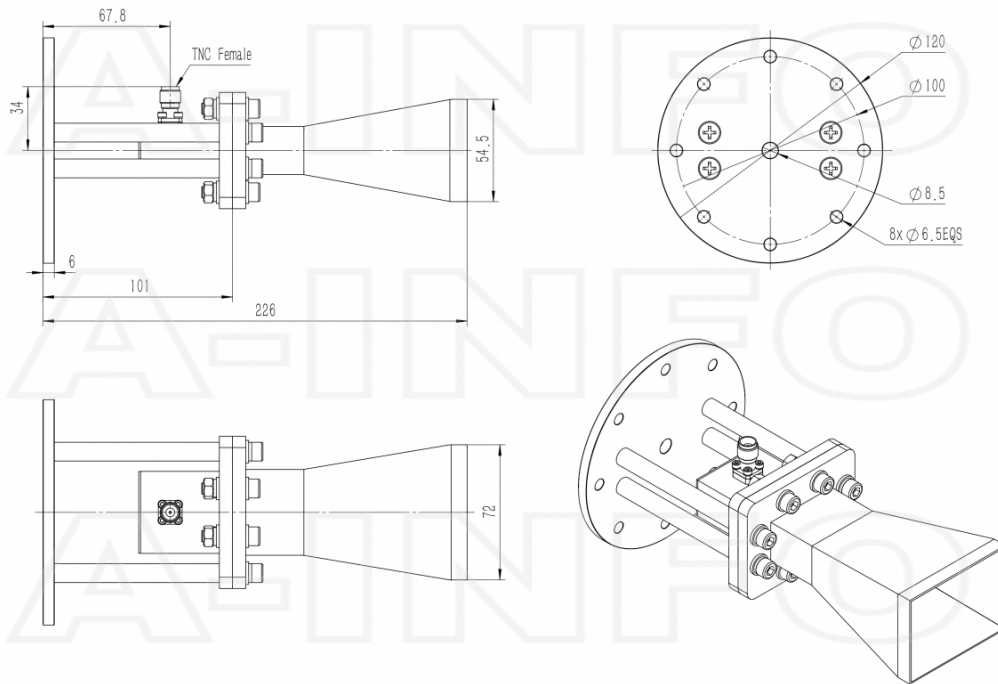
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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## Outline Drawing

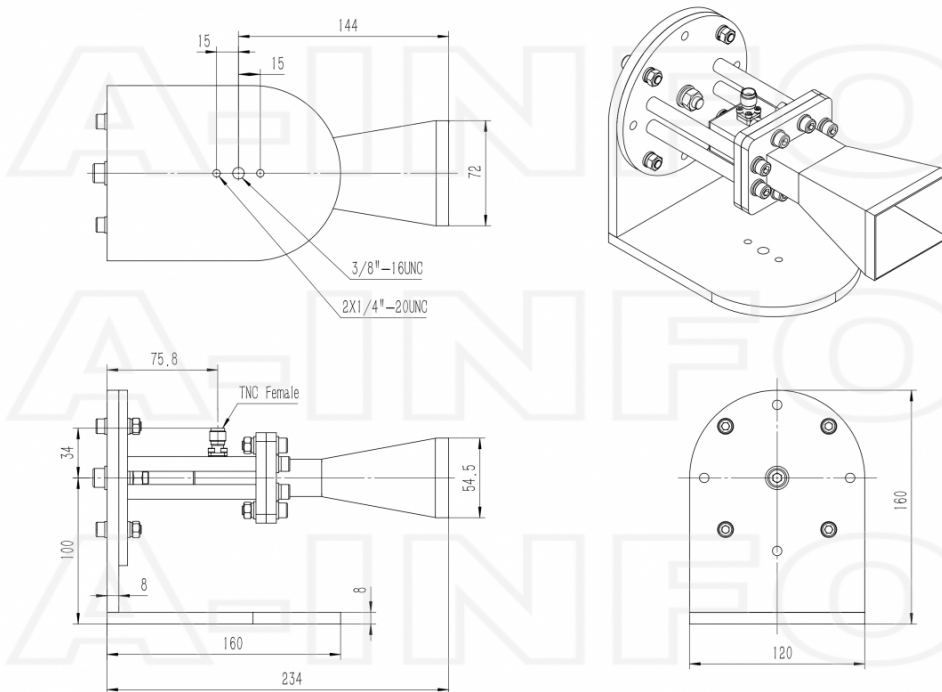
TNC-Female Output (P/N: LB-OH-159-15-C-TF)



TNC-Female Output with Round Mounting Bracket (Option, P/N: LB-159-10-C-MB)

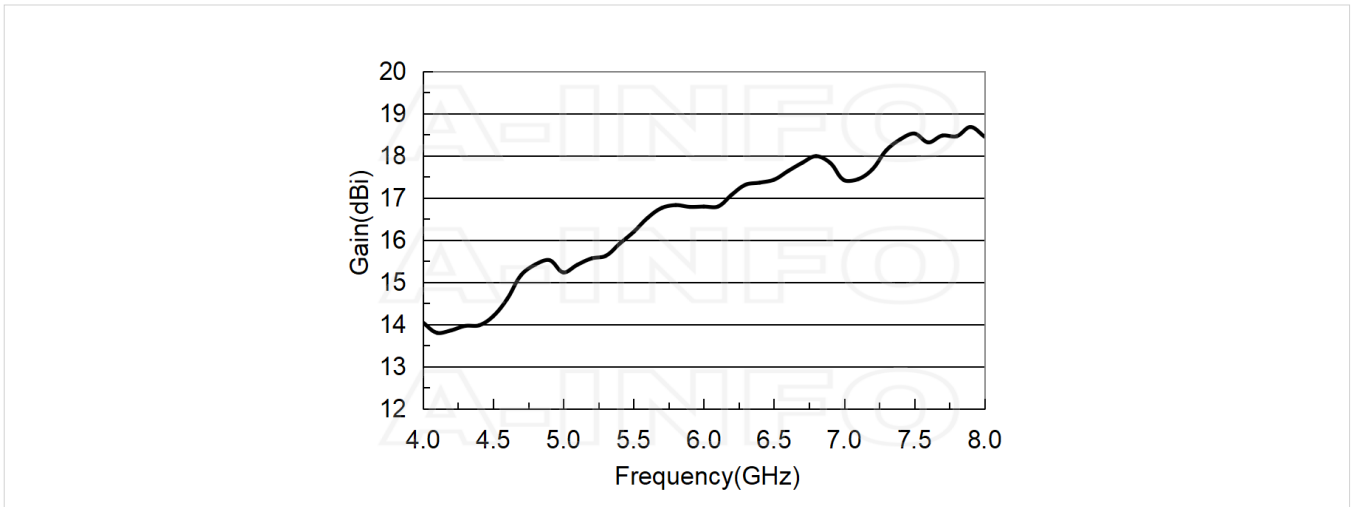


TNC-Female Output with L Type Mounting Bracket (Option, P/N: LB-159-10-C-MBL)

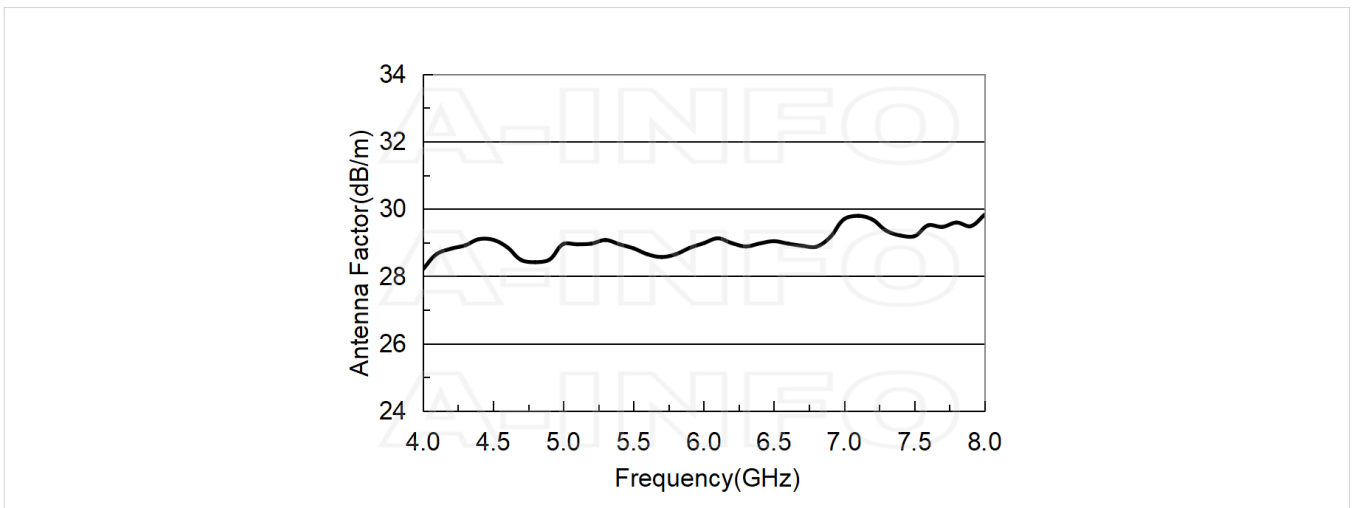


## Typical Test Results

### Gain



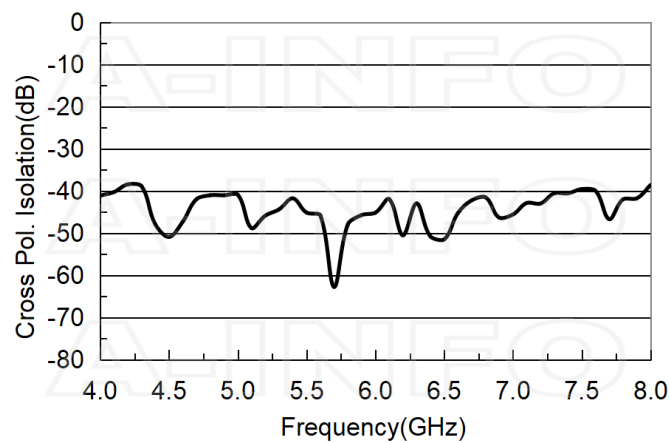
### Antenna Factor



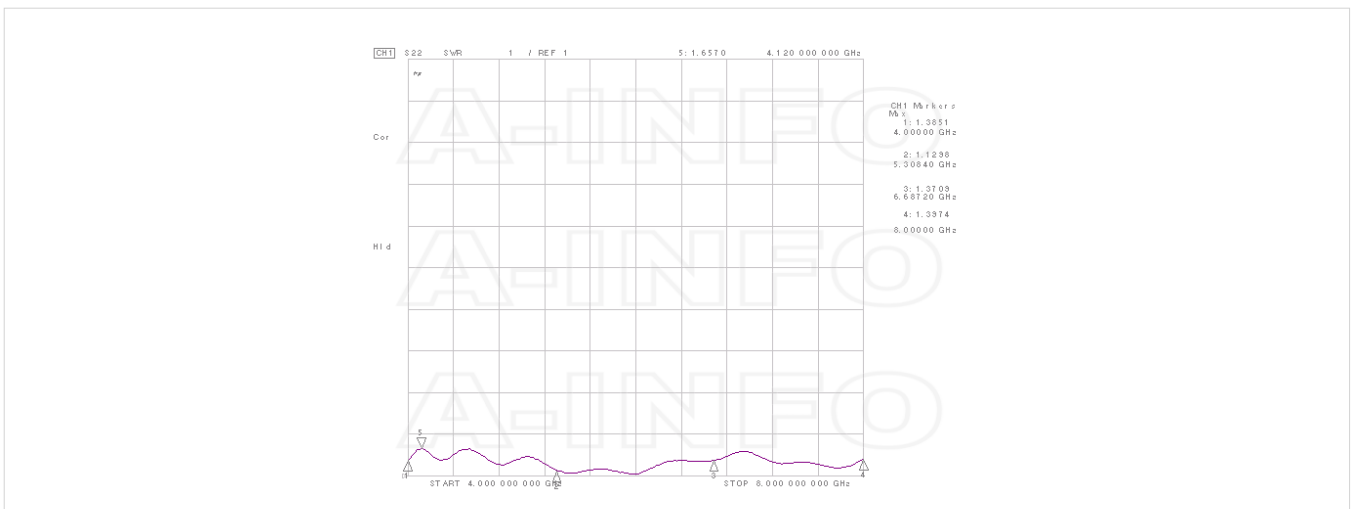
### Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
4	14.04	28.21
4.25	13.85	28.93
4.5	14.19	29.08
4.75	15.29	28.45
5	15.23	28.96
5.25	15.49	29.13
5.5	16.19	28.83
5.75	16.90	28.50
6	16.79	28.98
6.25	17.17	28.96
6.5	17.43	29.04
6.75	18.00	28.80
7	17.42	29.70
7.25	17.86	29.56
7.5	18.52	29.19
7.75	18.46	29.54
8	18.45	29.82

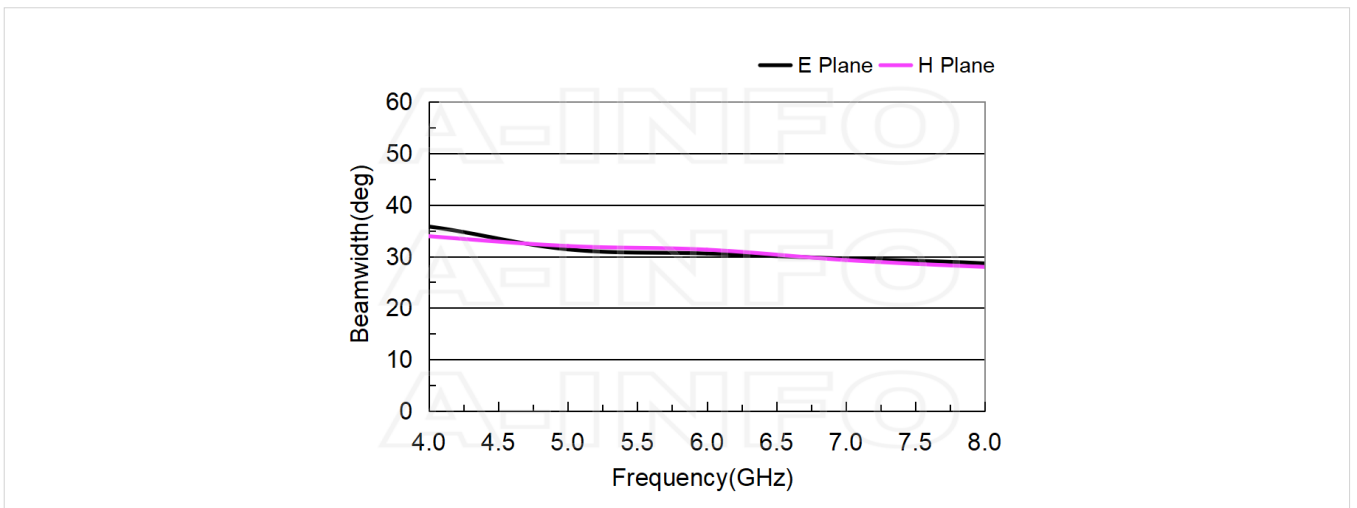
### Cross Polarization Isolation



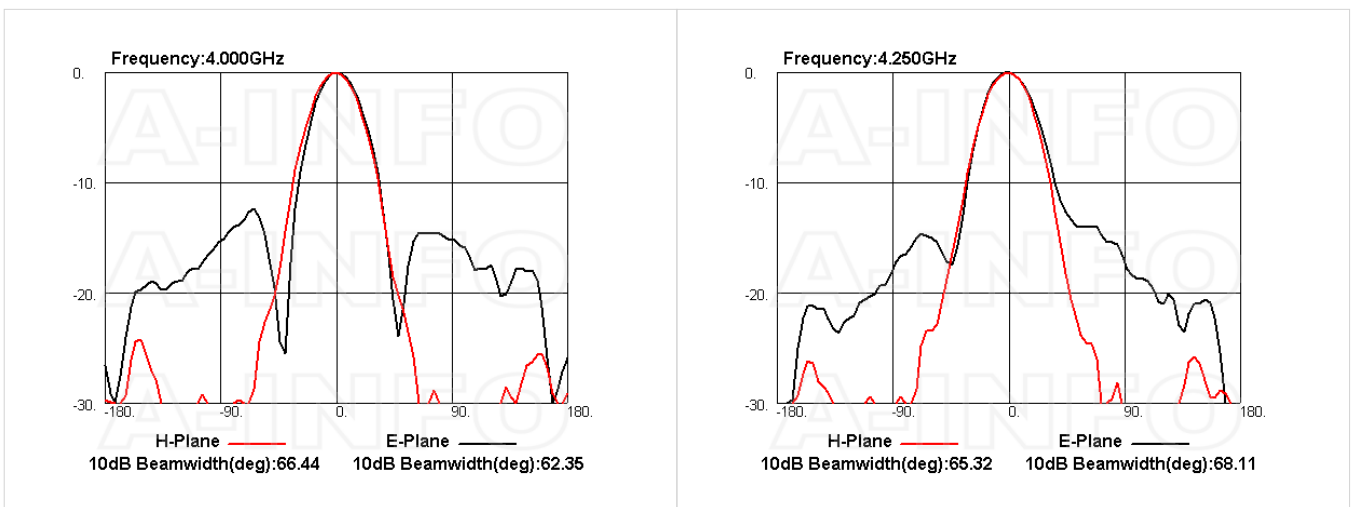
## VSWR

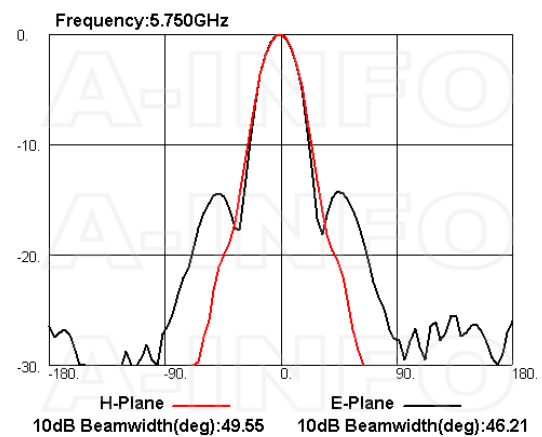
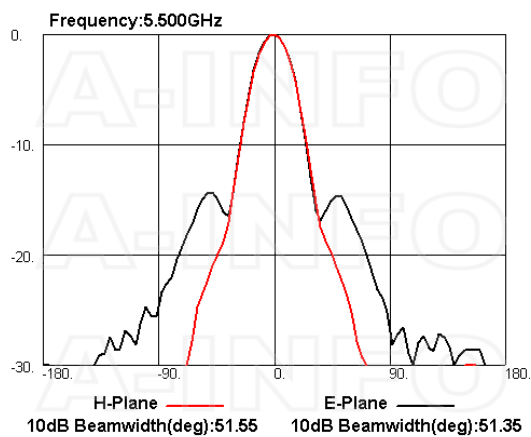
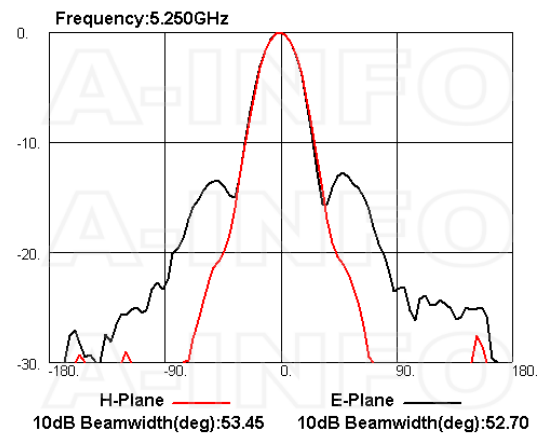
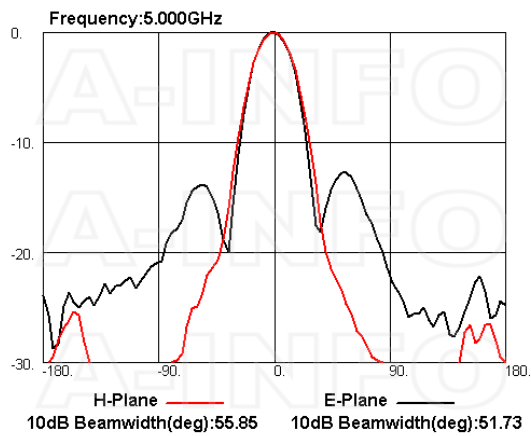
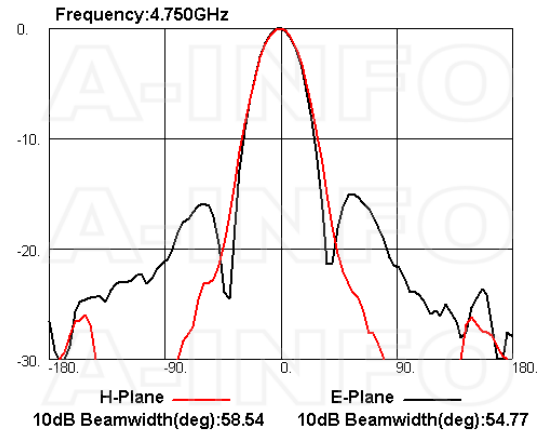
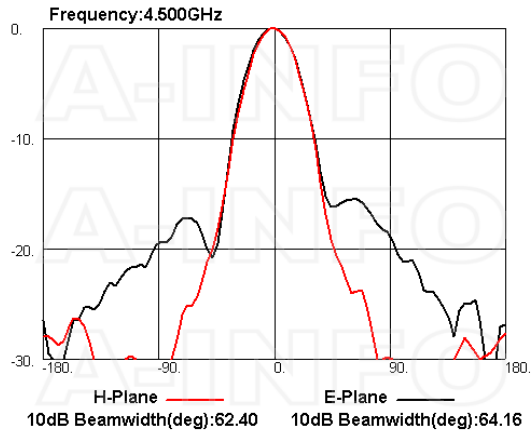


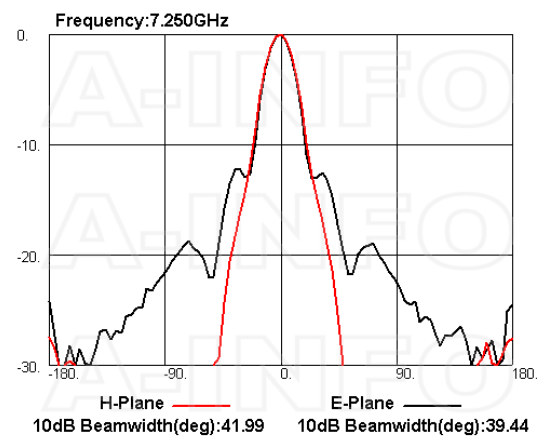
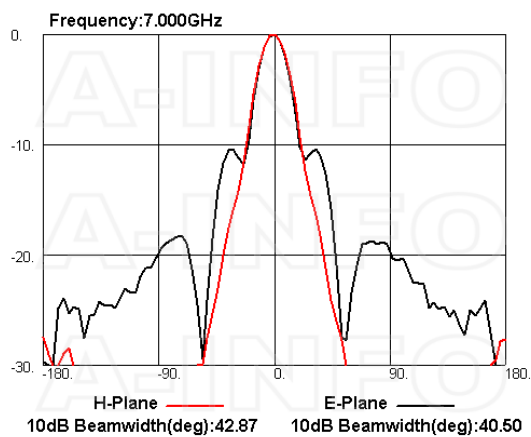
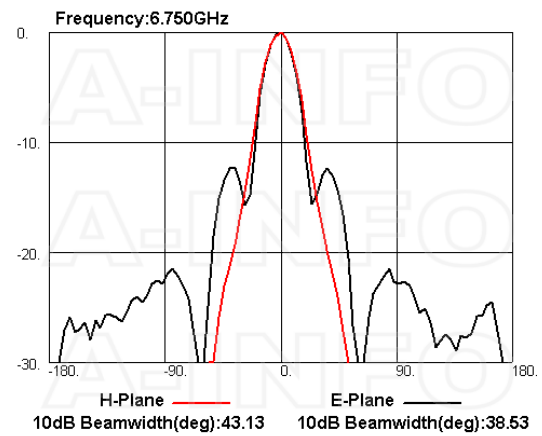
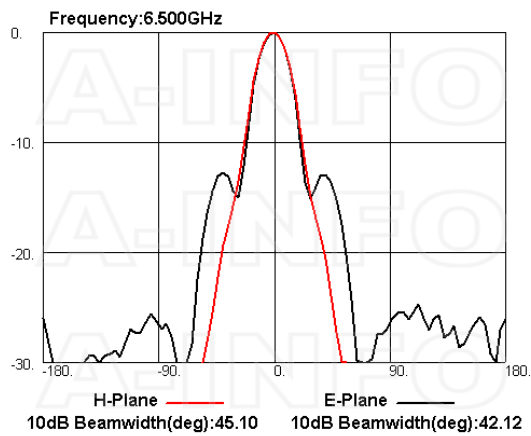
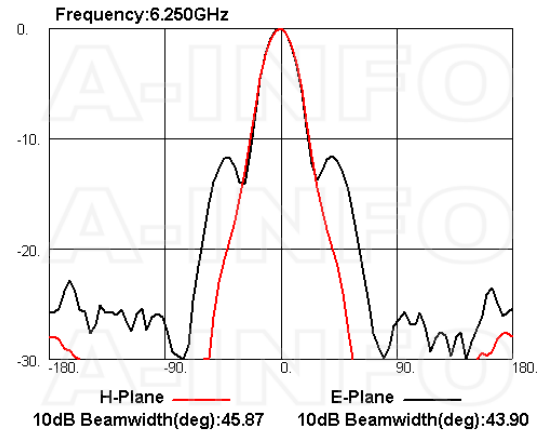
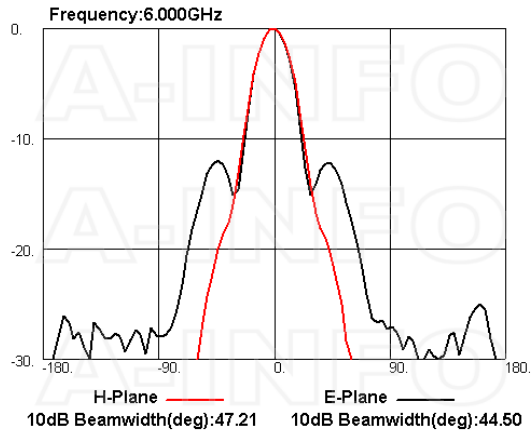
## Beamwidth

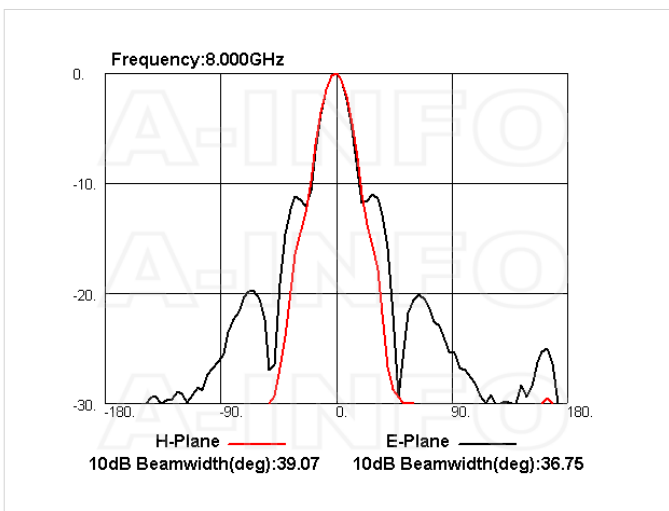
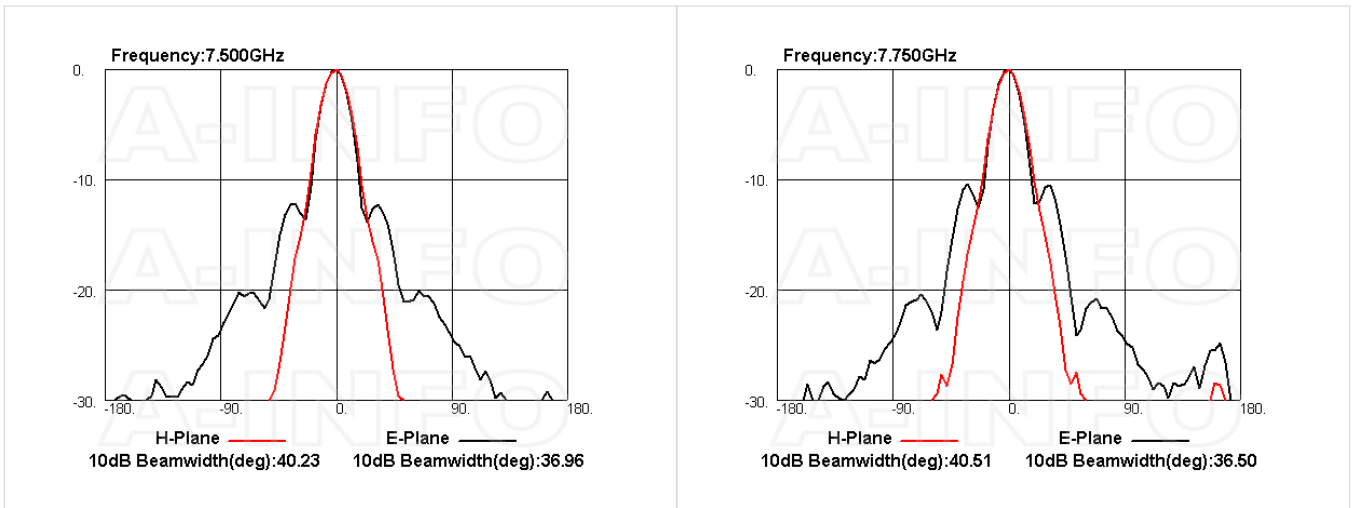


## Pattern









## Related Products

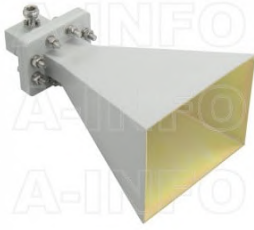


LB-159-10-C-MB Round Type Mounting Bracket

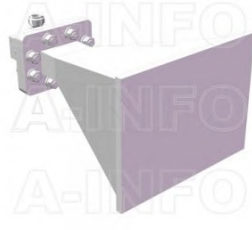


LB-159-10-C-MBL L type mounting bracket

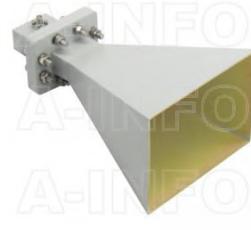
### Similar Products



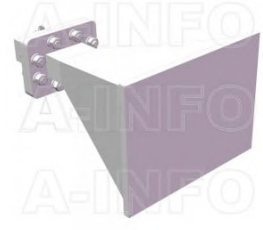
LB-OH-159-15-C-NF Octave Horn Antenna 4-8GHz 15dB Gain N Type Female



LB-OH-159-15-C-NFSPO Octave Horn Antenna 4-8GHz 15dB Gain N Type Female



LB-OH-159-15-C-SF Octave Horn Antenna 4-8GHz 15dB Gain SMA Female



LB-OH-159-15-C-SFSPO Octave Horn Antenna 4-8GHz 15dB Gain SMA Female



LB-OH-159-15-C-TFSPO Octave Horn Antenna 4-8GHz 15dB Gain TNC Female



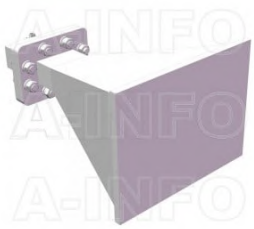
LB-OH-159-15-C-7 Octave Horn Antenna 4-8GHz 15dB Gain 7mm



LB-OH-159-15-C-7SPO Octave Horn Antenna 4-8GHz 15dB Gain 7mm



LB-OH-159-15-C-3.5F Octave Horn Antenna 4-8GHz 15dB Gain 3.5mm Female



LB-OH-159-15-C-3.5FSPO Octave Horn Antenna 4-8GHz 15dB Gain 3.5mm Female

### About this Datasheet

- **Product Information**

Product Link:  
<https://www.ainfoinc.com/lb-oh-159-15-c-tf-octave-horn-antenna-4-8-ghz-15db-gain-tnc-female>  
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