

### LB-OH-112-20-C-TF Octave Horn Antenna 6-12GHz 20dB Gain TNC Female

Octave Horn Antenna Operating From 6GHz to 12GHz With a Nominal 20dB Gain With TNC Female Connector

## Product Information

SKU	LB-OH-112-20-C-TF
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## Description

Octave horn antenna LB-OH-112-20-C-TF, operating from 6 to 12Hz with a nominal 20dB gain and low VSWR 1.5:1 with TNC Female output connector. The model LB-OH-112-20-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

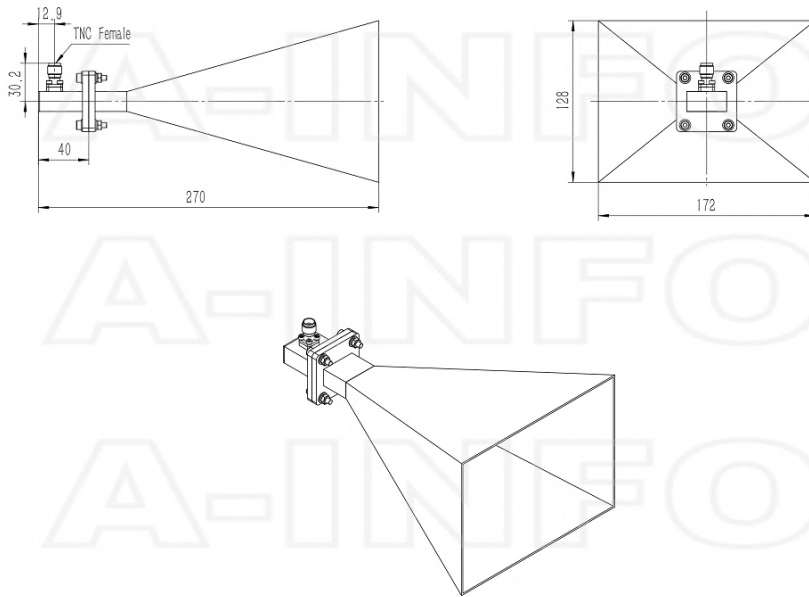
Electrical Specification		Interface	
Frequency, Min (GHz)	6	Output Type	Coaxial
Frequency, Max (GHz)	12	Connector	TNC
Gain, Typ (dBi)	20	Connector Gender	Female
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Min (Deg.)	11	Body Material	Al
3dB Beamwidth, E-Plane, Max (Deg.)	20	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, H-Plane, Min (Deg.)	14	Size, W (mm)	172
3dB Beamwidth, H-Plane, Max (Deg.)	21	Size, H (mm)	128
Cross Pol. Isolation, Typ (dB)	35	Size, L (mm)	270
VSWR, Typ	1.5:1	Weight, (kg)	0.389
Impedance, (Ohm)	50		
Power Handling, CW, (W)	150		
Power Handling, Peak, (W)	3000		

## Additional Information

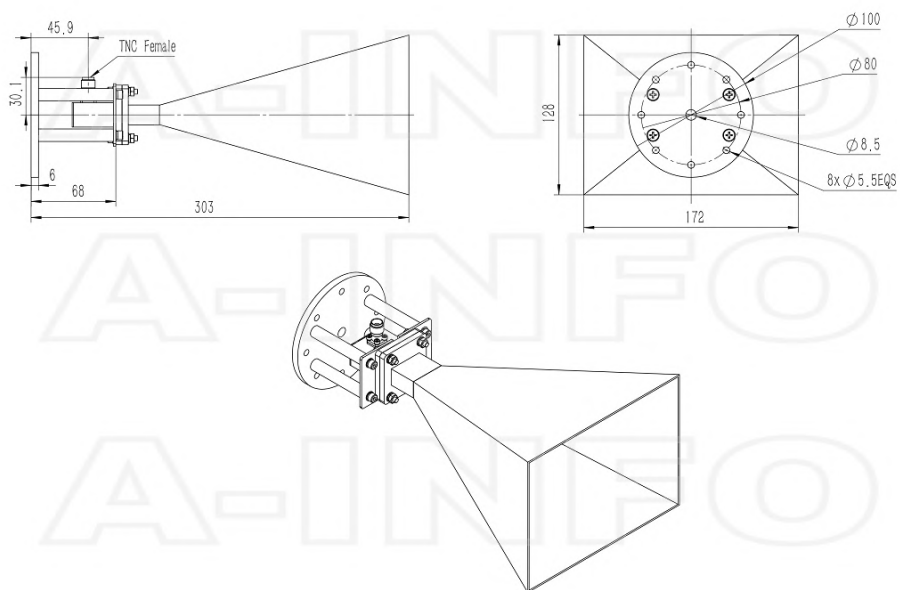
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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## Outline Drawing

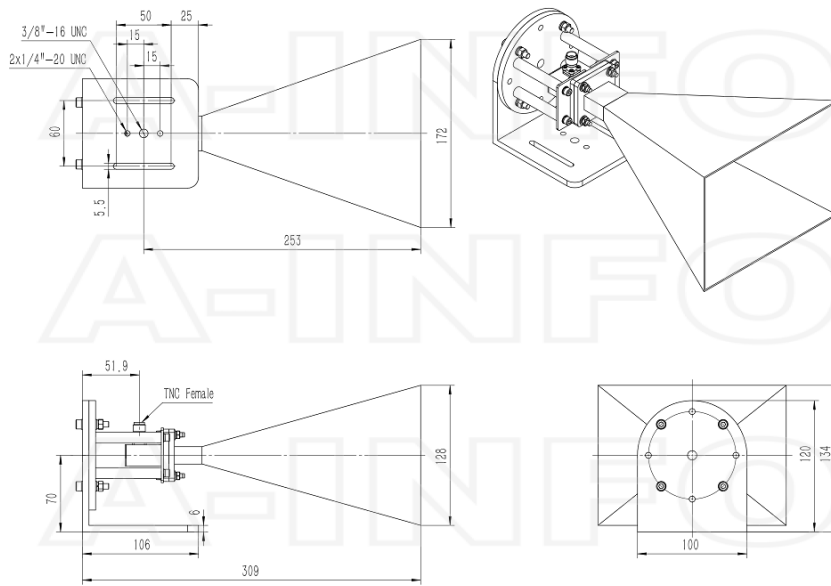
TNC-Female Output (P/N: LB-OH-112-20-C-TF)



TNC-Female Output with Round Mounting Bracket (Option, P/N: LB-112-10-C-MB)

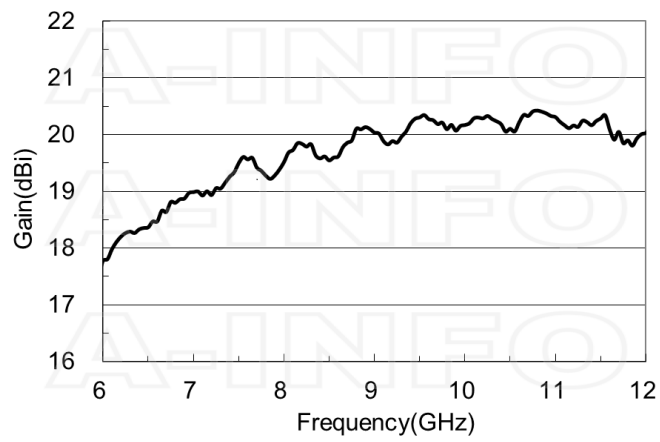


TNC-Female Output with L Type Mounting Bracket (Option, P/N:LB-112-10-C-MBL)

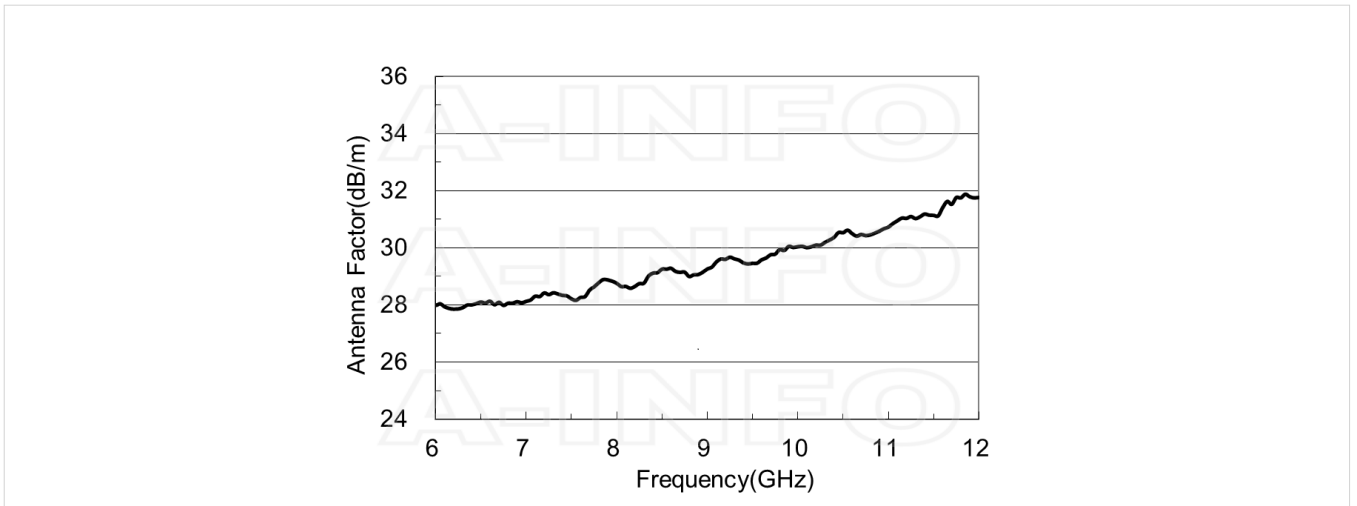


## Typical Test Results

### Gain



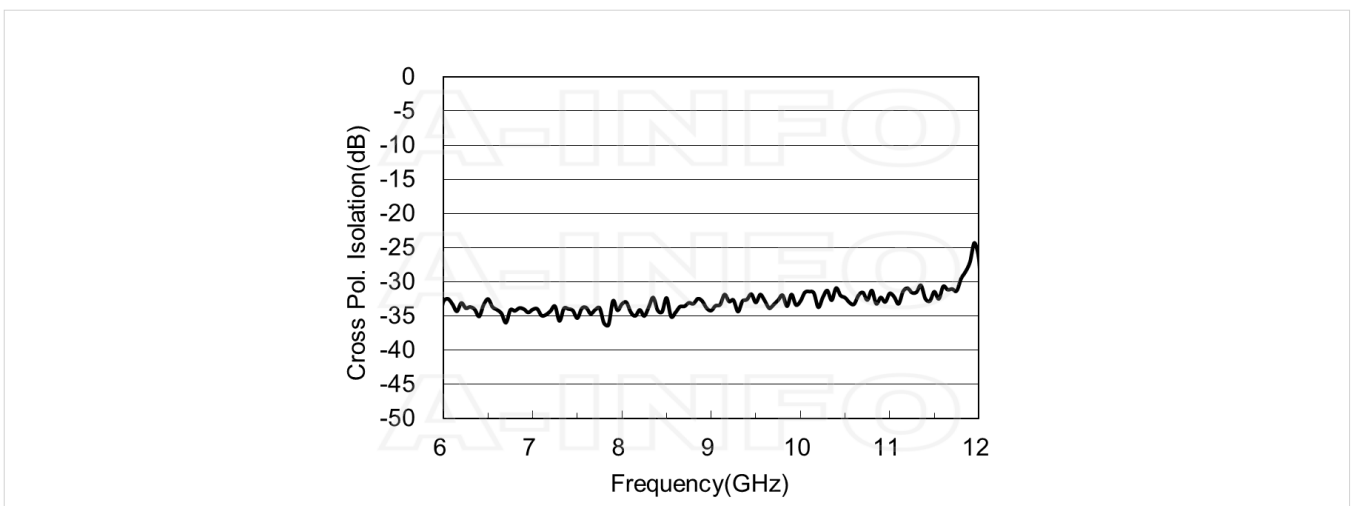
## Antenna Factor



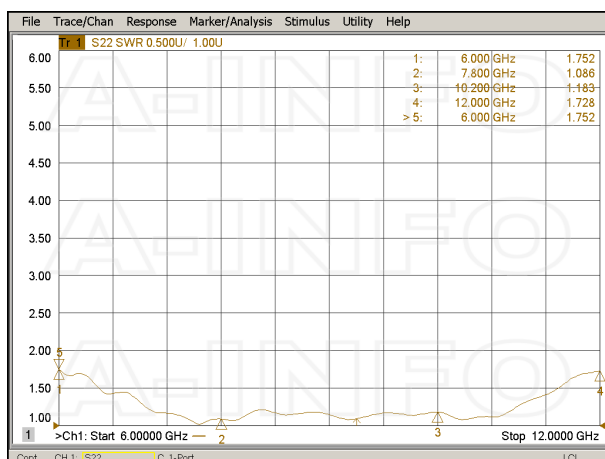
## Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
6.0	17.78	28.00
6.5	18.37	28.10
7.0	18.99	28.13
7.5	19.50	28.21
8.0	19.51	28.76
8.5	19.54	29.25
9.0	20.04	29.26
9.5	20.30	29.46
10.0	20.17	30.04
10.5	20.10	30.53
11.0	20.31	30.73
11.5	20.29	31.14
12.0	20.03	31.76

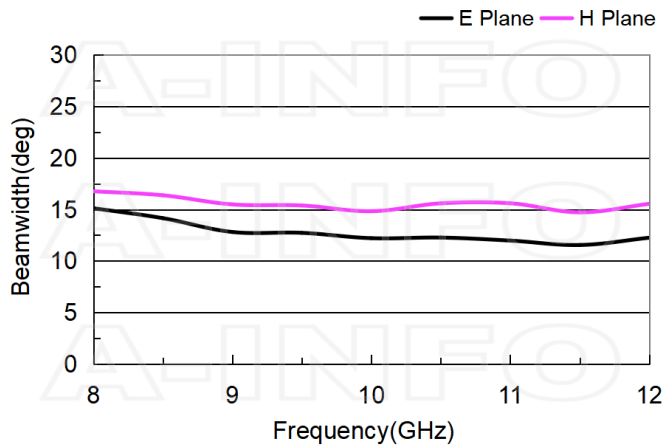
## Cross Polarization Isolation



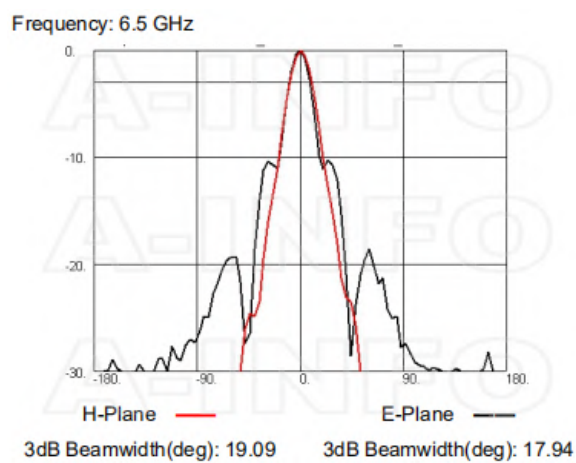
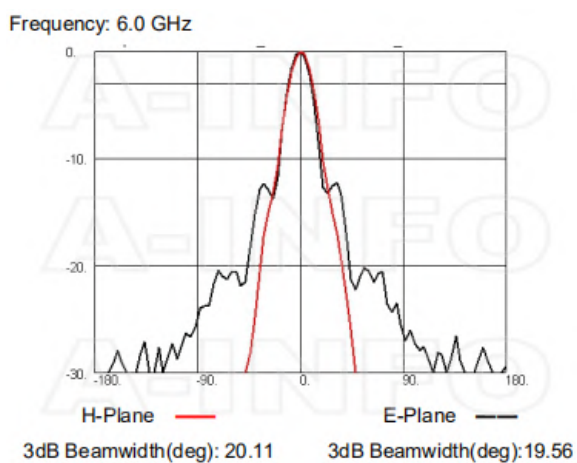
## VSWR

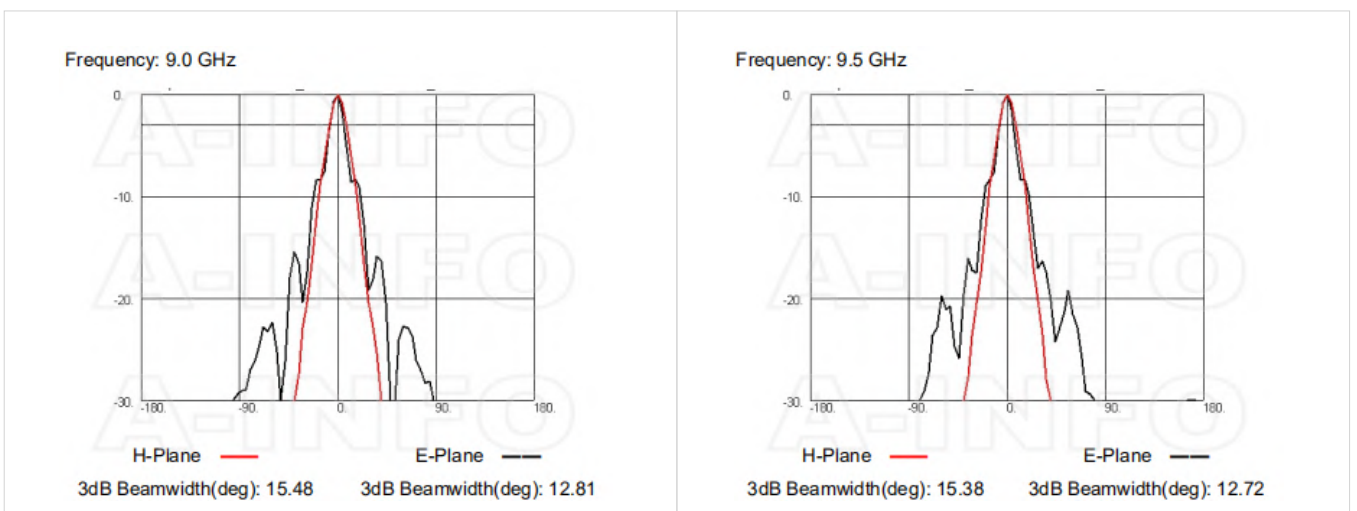
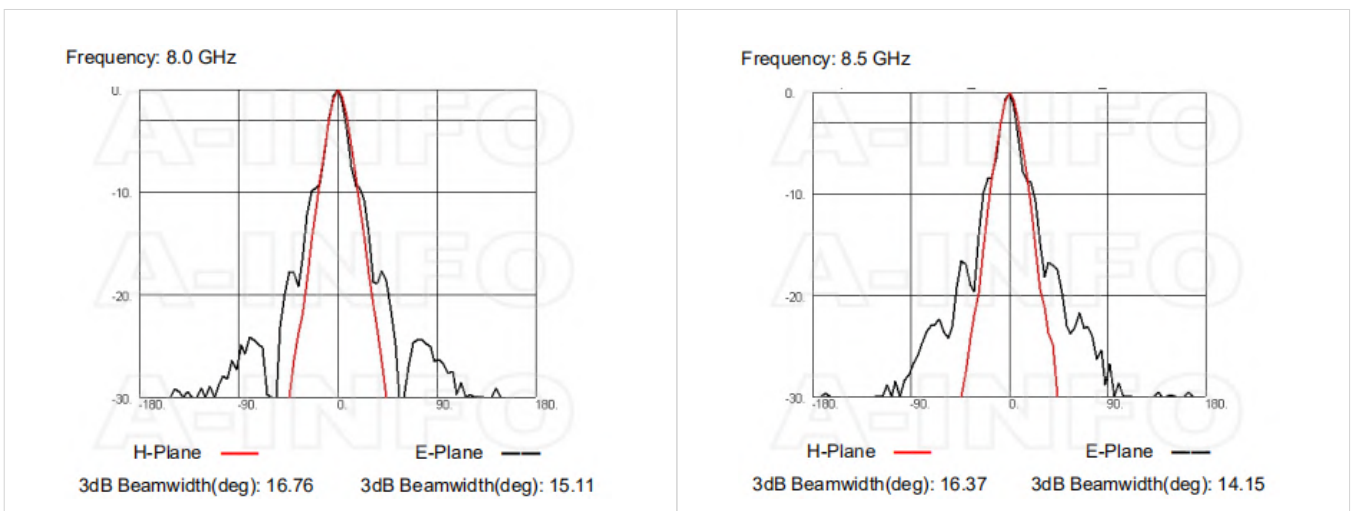
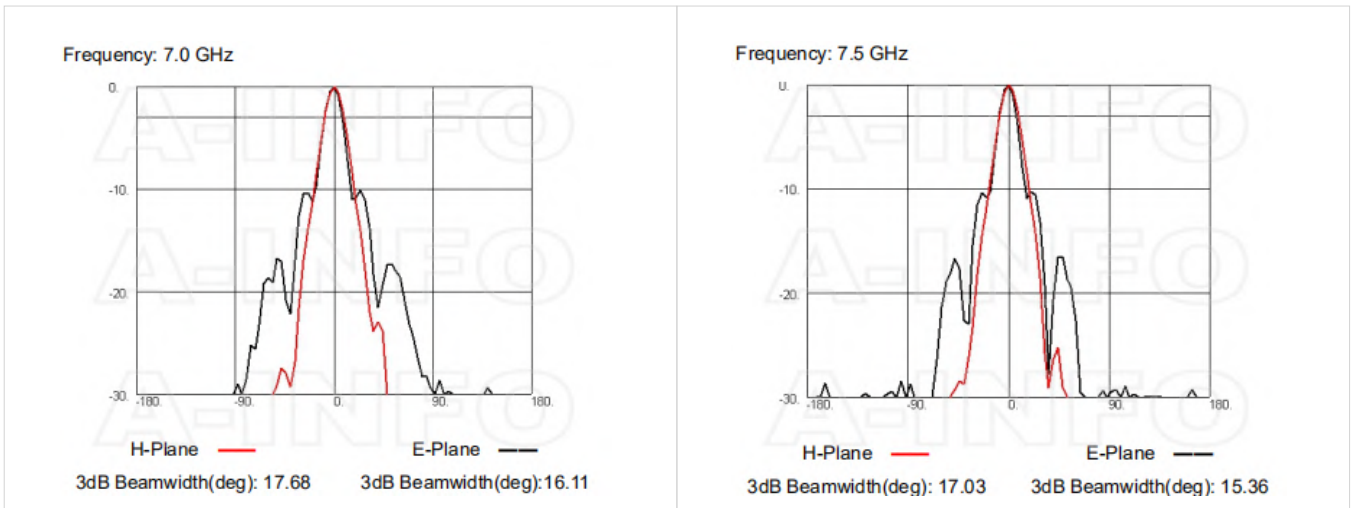


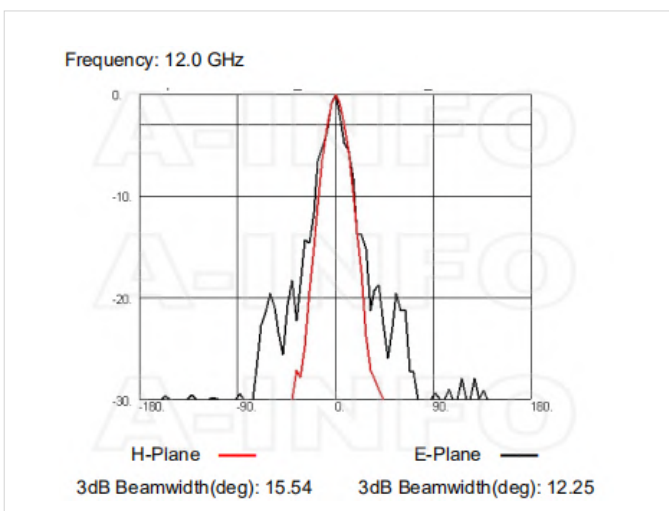
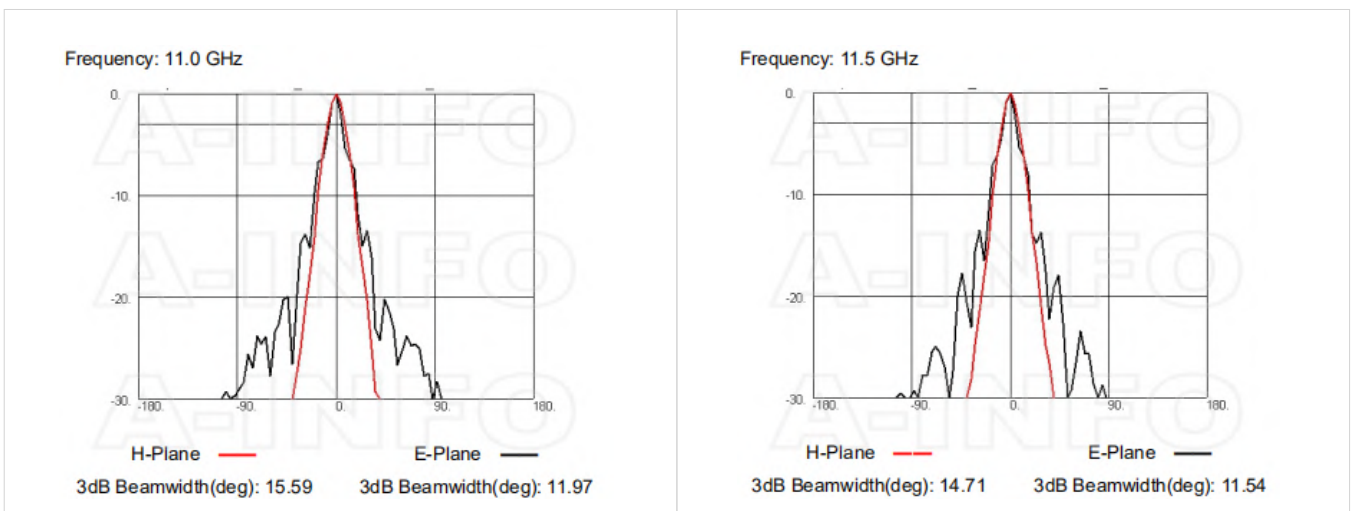
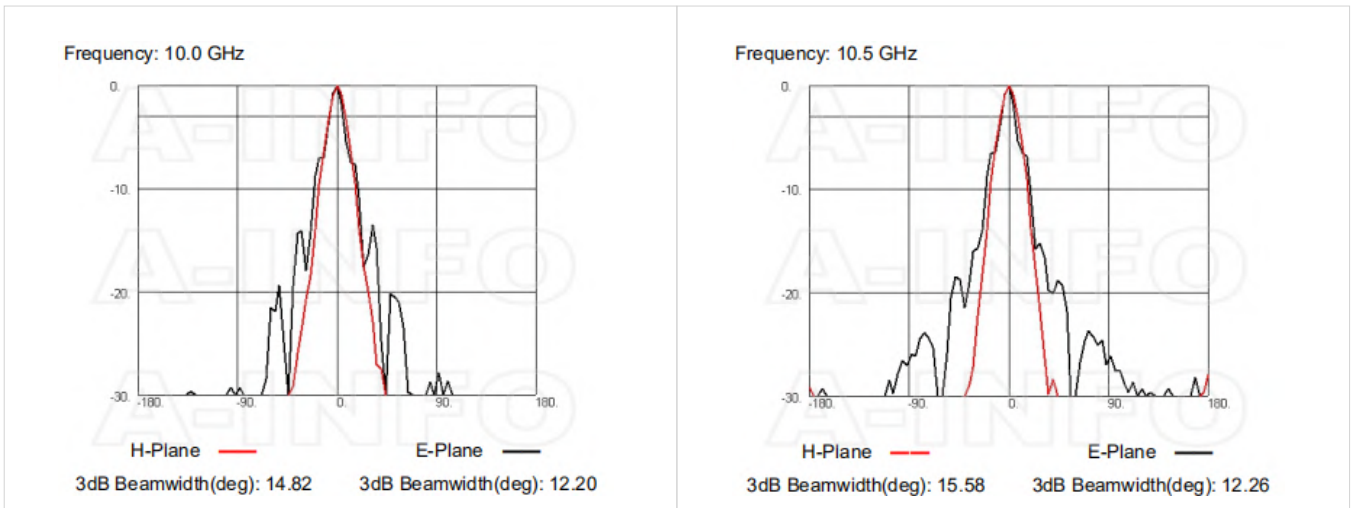
## Beamwidth



## Pattern







### Related Products



LB-112-10-C-MB Round Type Mounting Bracket



LB-112-10-C-MBL L type mounting bracket



Tripod\_15Kg Al Alloy Tripod



3033HL Wooden Tripod

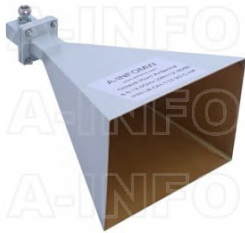


3033QM Wooden Tripod Metalfree



Carrying Case\_LB-112-20-C Al Alloy Carrying Case

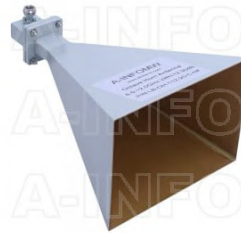
### Similar Products



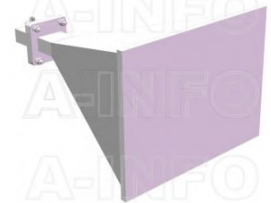
LB-OH-112-20-C-NF Octave Horn Antenna 6-12GHz 20dB Gain N Type Female



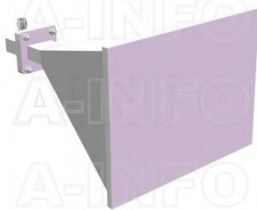
LB-OH-112-20-C-NFSP0 Octave Horn Antenna 6-12GHz 20dB Gain N Type Female



LB-OH-112-20-C-SF Octave Horn Antenna 6-12GHz 20dB Gain SMA Female



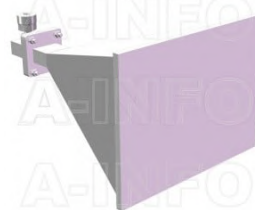
LB-OH-112-20-C-SFSP0 Octave Horn Antenna 6-12GHz 20dB Gain SMA Female



LB-OH-112-20-C-TFSP0 Octave Horn Antenna 6-12GHz 20dB Gain TNC Female



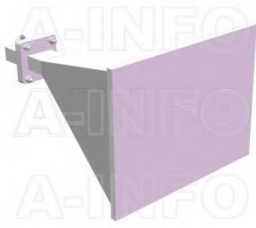
LB-OH-112-20-C-7 Octave Horn Antenna 6-12GHz 20dB Gain 7mm



LB-OH-112-20-C-7SPO Octave Horn Antenna 6-12GHz 20dB Gain 7mm



LB-OH-112-20-C-3.5F Octave Horn Antenna 6-12GHz 20dB Gain 3.5mm Female



LB-OH-112-20-C-3.5FSPO Octave  
Horn Antenna 6-12GHz 20dB  
Gain 3.5mm Female

## About this Datasheet

<ul style="list-style-type: none"> <li>● <b>Product Information</b></li> </ul> <p>Product Link:  <a href="https://www.ainfoinc.com/lb-oh-112-20-c-tf-octave-horn-antenna-6-12-ghz-20db-gain-tnc-female">https://www.ainfoinc.com/lb-oh-112-20-c-tf-octave-horn-antenna-6-12-ghz-20db-gain-tnc-female</a>            Data subject to change without notice.            © A-INFO INC. 2024. All Rights Reserved</p>	<ul style="list-style-type: none"> <li>● <b>Contact Us</b></li> </ul> <p>Address:            60 Tesla, Irvine, CA 92618,            USA</p> <p>Website:  <a href="http://www.ainfoinc.com">www.ainfoinc.com</a></p> <p>Email:  <a href="mailto:sales@ainfoinc.com">sales@ainfoinc.com</a></p>	<ul style="list-style-type: none"> <li>● <b>Phone &amp; Fax</b></li> </ul> <p>Phone:            +1-949-639-9688            +1-949-639-9608</p> <p>Fax:            +1-949-639-9670</p>
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