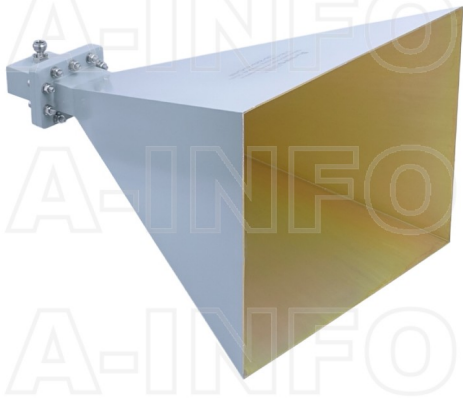




LB-229-20-C-NF Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain N Type Female

Standard Gain Horn Antenna Operating From 3.3GHz to 4.9GHz With a Nominal 20dB Gain With N Type Female Connector

### Product Information

|     |                |
|-----|----------------|
| SKU | LB-229-20-C-NF |
|-----|----------------|

### Description

Standard Gain Horn Antenna LB-229-20-C-NF, operating from 3.3 to 4.9GHz with a nominal 20dB gain and low VSWR 1.25:1 with N Type Female connector output. The model LB-229-20-C-NF 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 standard gain horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

### Technical Specification

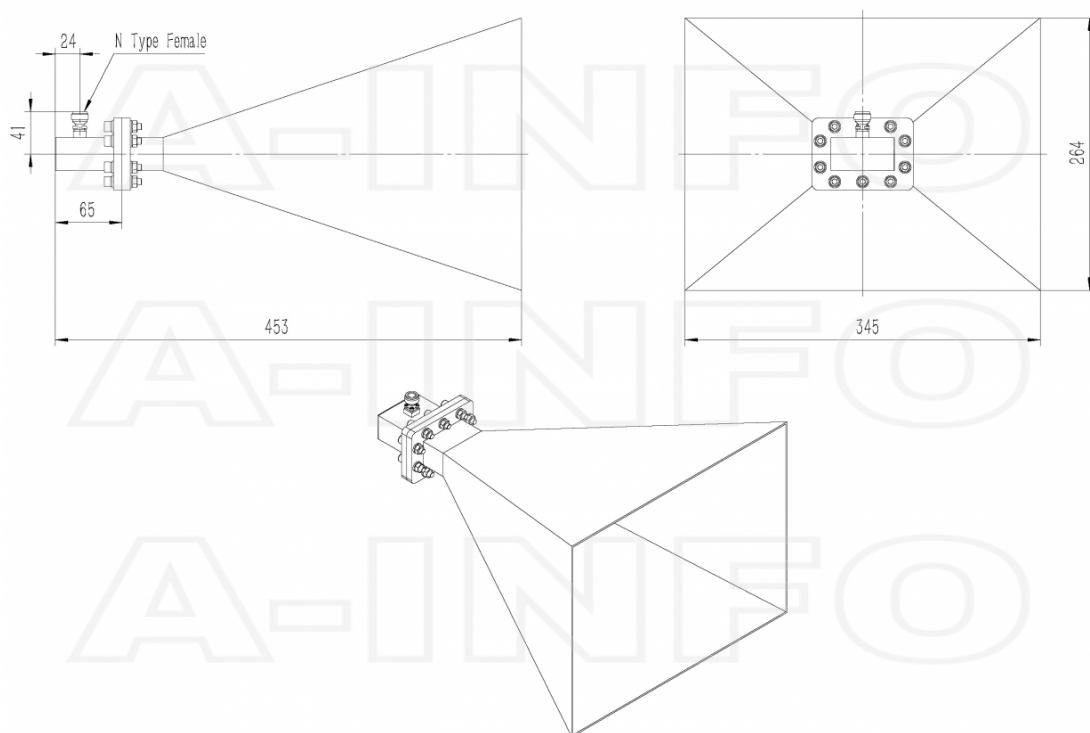
| Electrical Specification           |             | Interface                |                                         |
|------------------------------------|-------------|--------------------------|-----------------------------------------|
| Frequency, Min (GHz)               | 3.3         | Output Type              | Coaxial                                 |
| Frequency, Max (GHz)               | 4.9         | Connector                | N Type                                  |
| Waveguide Type                     | Rectangular | Connector Gender         | Female                                  |
| Waveguide Size EIA WR              | WR229       | Mechanical Specification |                                         |
| Gain, Typ (dBi)                    | 20          | Figure                   | C Type                                  |
| Polarization                       | Linear      | Body Material            | Al                                      |
| 3dB Beamwidth, E-Plane, Typ (Deg.) | 16          | Finish                   | Chemical Conversion Coating, Gray Paint |
| 3dB Beamwidth, H-Plane, Typ (Deg.) | 18          | Size, W (mm)             | 345                                     |
| Cross Pol. Isolation, Typ (dB)     | 40          | Size, H (mm)             | 264                                     |
| VSWR, Typ                          | 1.25:1      | Size, L (mm)             | 453                                     |
| Impedance, (Ohm)                   | 50          | Weight, (kg)             | 2                                       |
| Power Handling, CW, (W)            | 150         |                          |                                         |
| Power Handling, Peak, (W)          | 3000        |                          |                                         |

## Additional Information

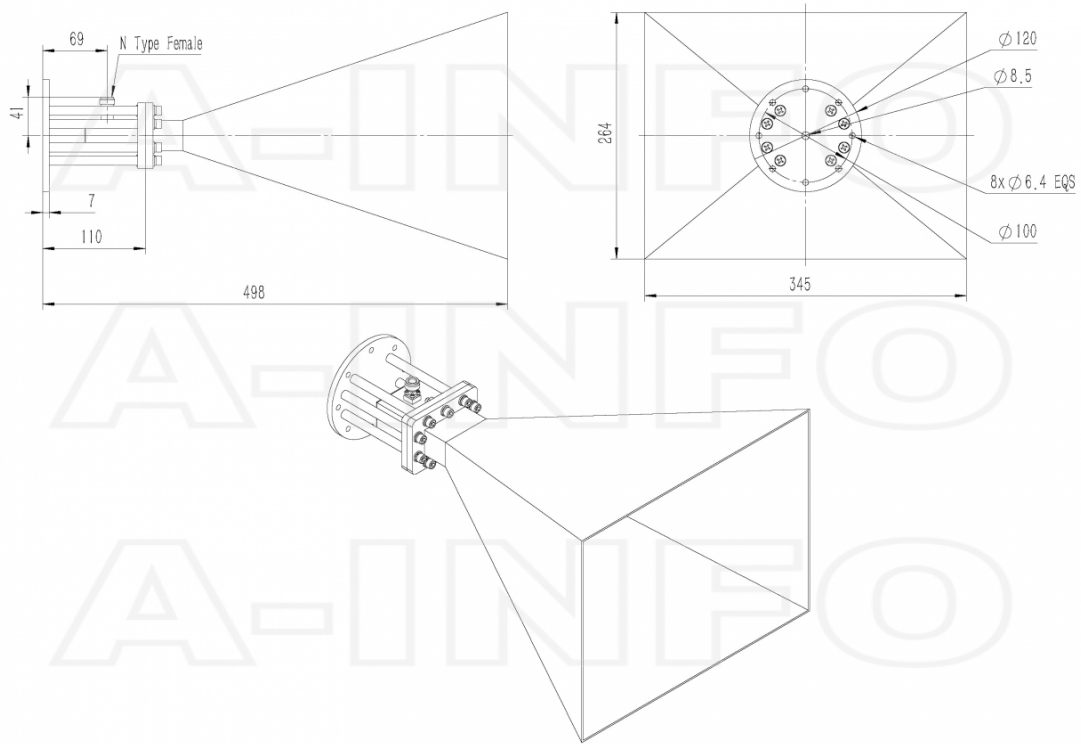
|             |                                         |              |                                                                                                                                 |
|-------------|-----------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| Application | General Purpose Indoor & Outdoor, Fixed | Solution for | Gain Reference<br>Antenna Measurement<br>Reflector Feed<br>Far-field Measurement<br>System Intergration<br>Material Measurement |
|-------------|-----------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|

## Outline Drawing

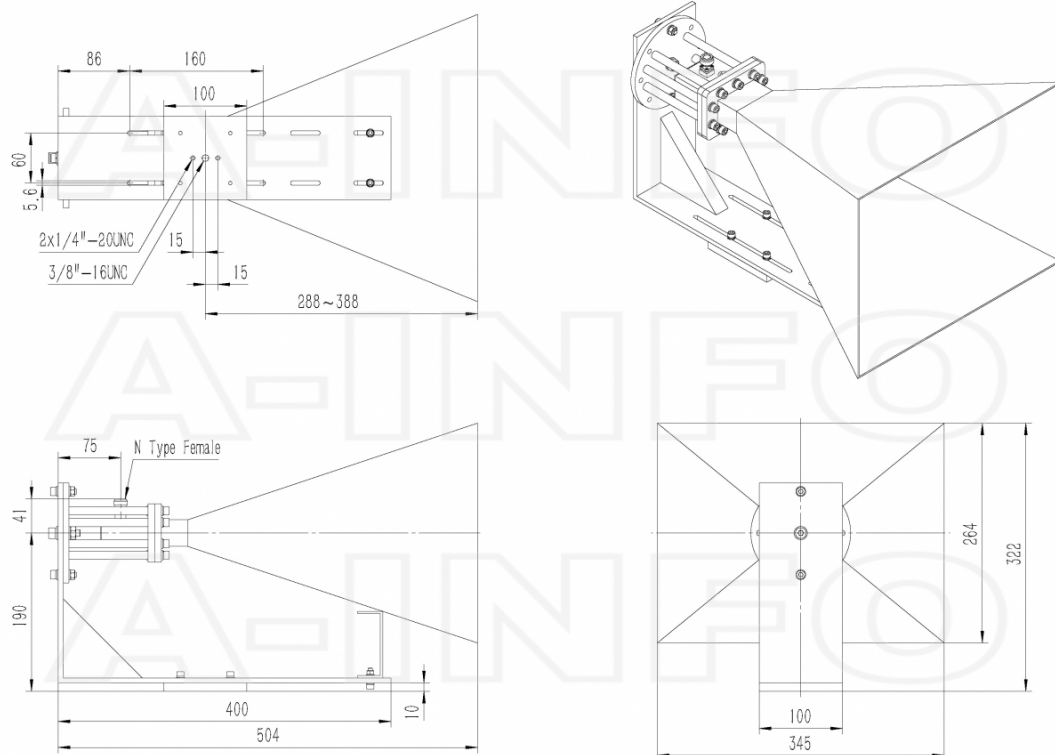
N-Female Output (P/N: LB-229-20-C-NF)



### N-Female Output with Round Mounting Bracket (Option, P/N: LB-229-10-C-MB)

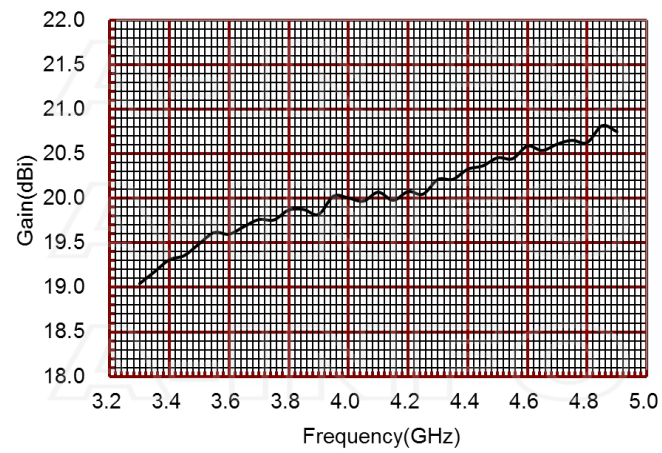


### N-Female Output with L Type Mounting Bracket (Option, P/N: LB-229-20-C-MBL)

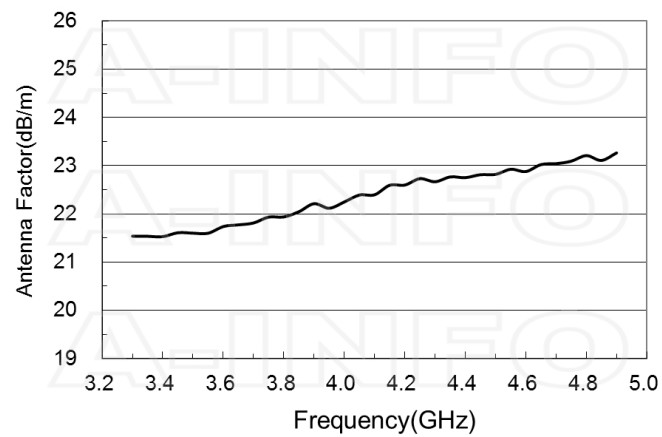


## Typical Test Results

### Gain



### Antenna Factor

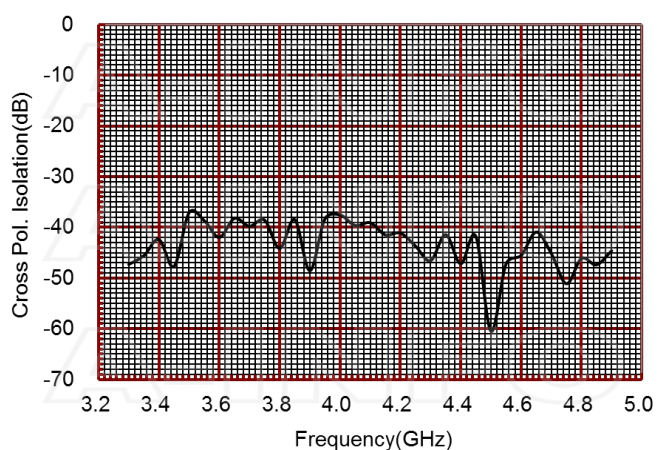




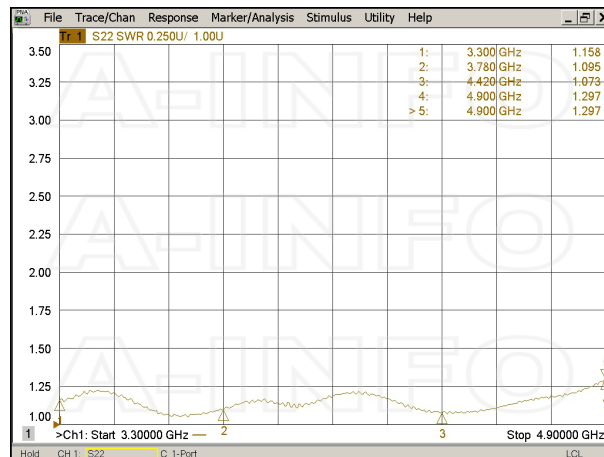
## Antenna Factor (Table)

| Frequency(GHz) | Gain(dBi) | Antenna Factor(dB/m) |
|----------------|-----------|----------------------|
| 3.3            | 19.04     | 21.54                |
| 3.4            | 19.31     | 21.53                |
| 3.5            | 19.49     | 21.60                |
| 3.6            | 19.60     | 21.74                |
| 3.7            | 19.76     | 21.81                |
| 3.8            | 19.87     | 21.94                |
| 3.9            | 19.82     | 22.21                |
| 4.0            | 20.00     | 22.25                |
| 4.1            | 20.07     | 22.40                |
| 4.2            | 20.08     | 22.60                |
| 4.3            | 20.21     | 22.67                |
| 4.4            | 20.33     | 22.75                |
| 4.5            | 20.45     | 22.82                |
| 4.6            | 20.59     | 22.88                |
| 4.7            | 20.61     | 23.04                |
| 4.8            | 20.63     | 23.21                |
| 4.9            | 20.75     | 23.27                |

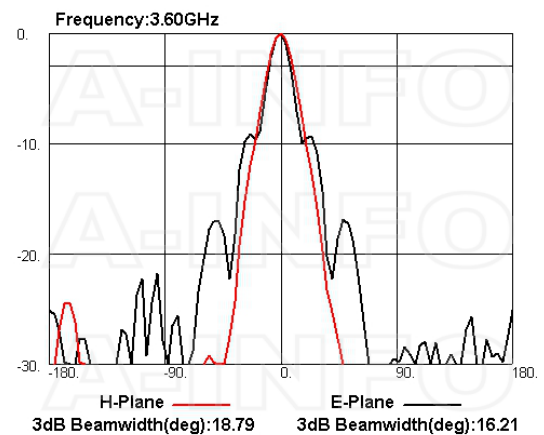
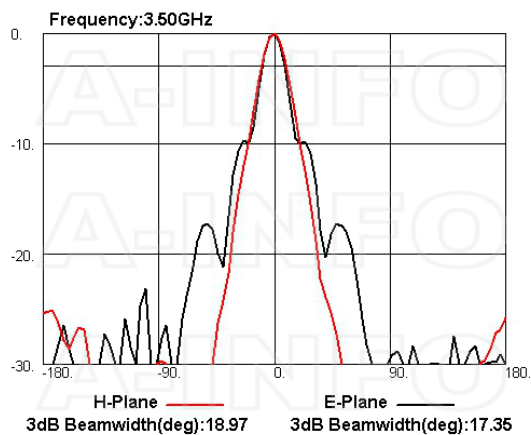
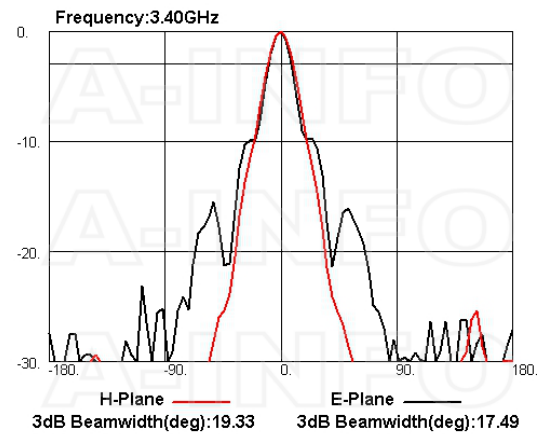
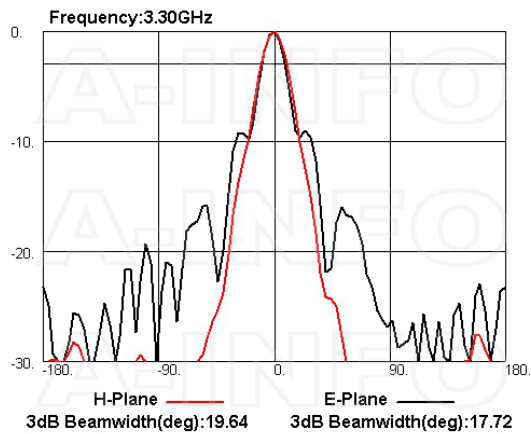
## Cross Polarization Isolation

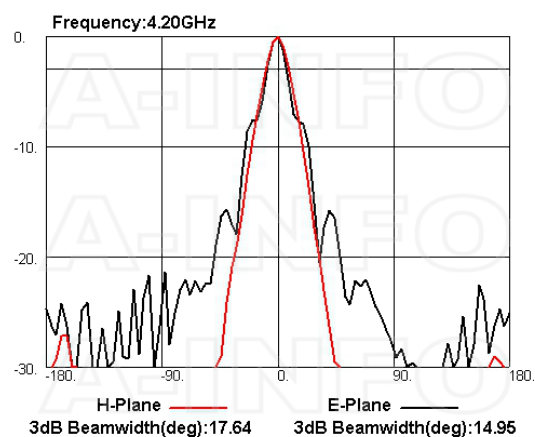
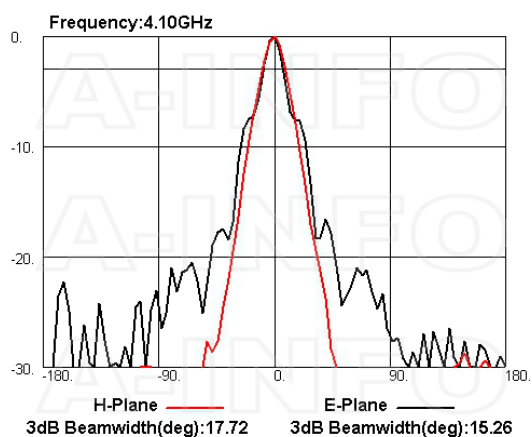
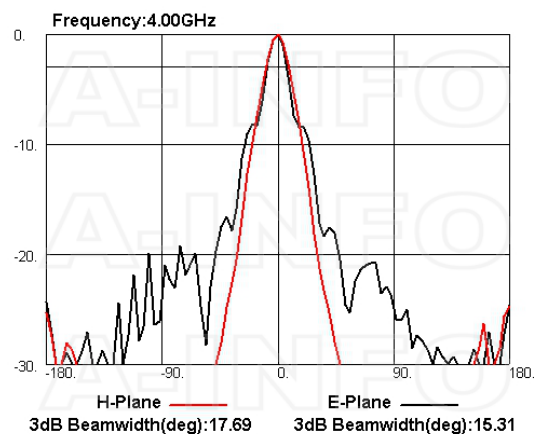
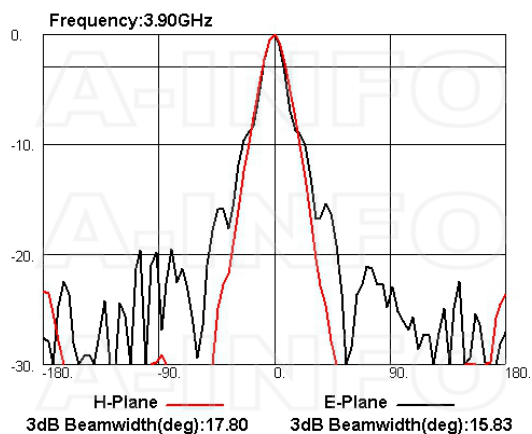
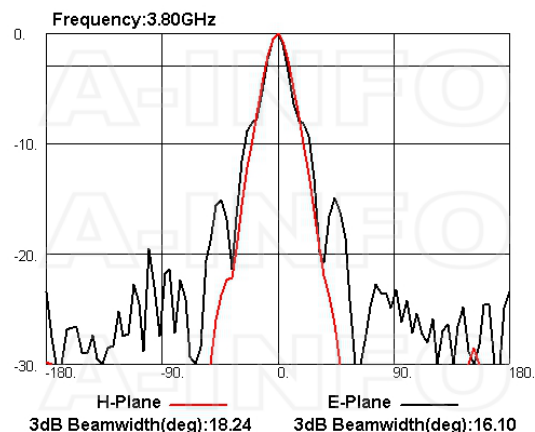
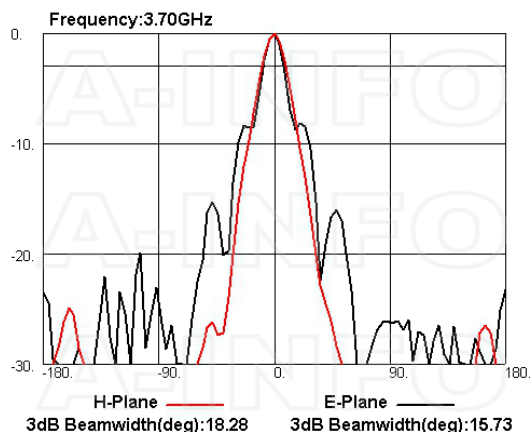


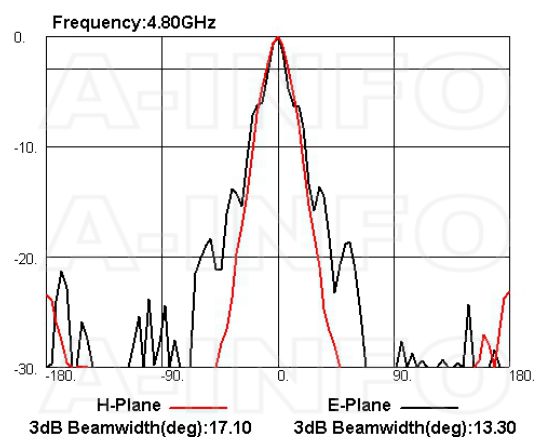
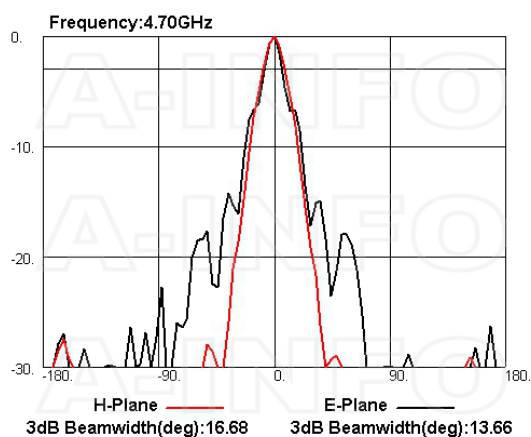
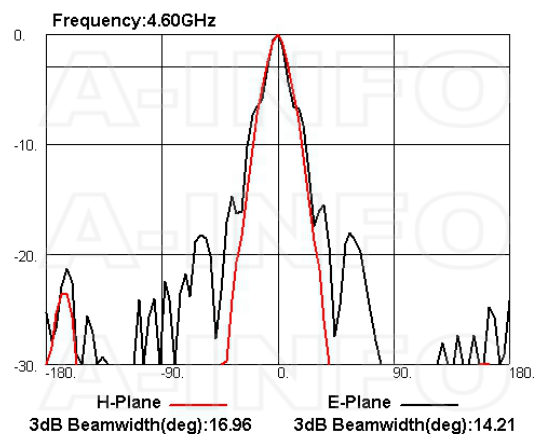
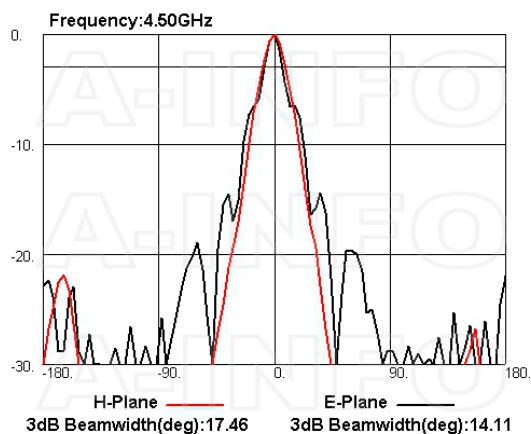
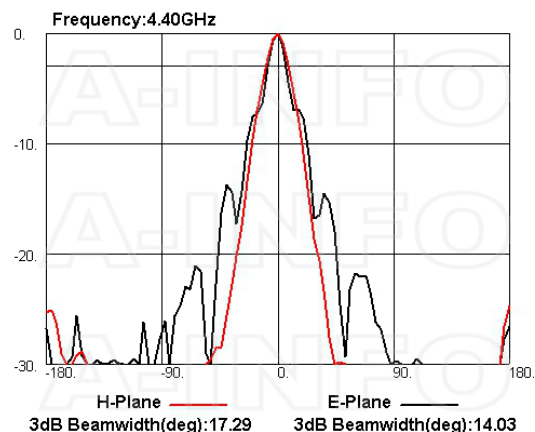
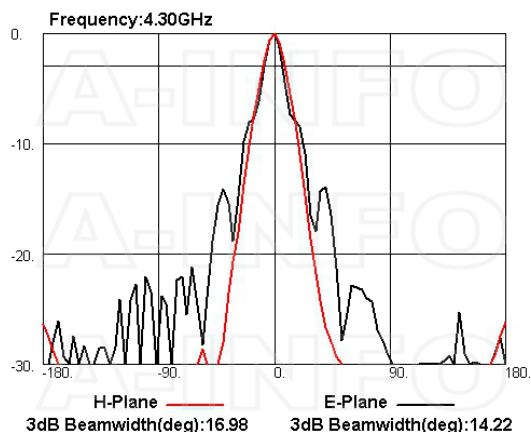
### VSWR

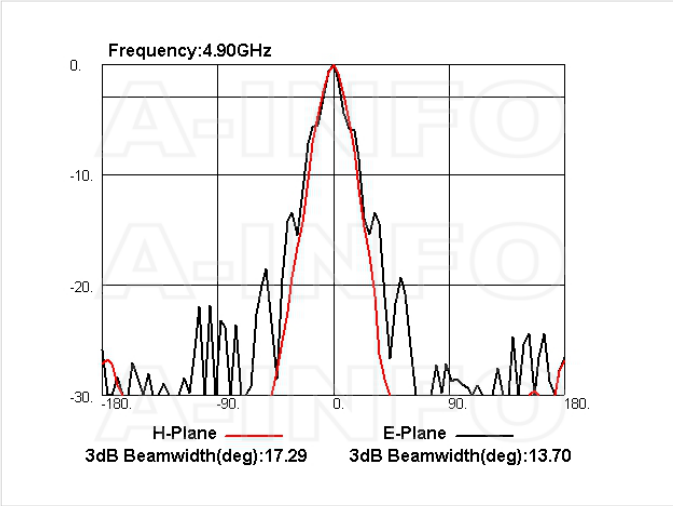


### Pattern









## Related Products



LB-229-10-C-MB Round Type Mounting Bracket



LB-229-20-C-MBL L type mounting bracket



Tripod\_50Kg Al Alloy Tripod



Carrying Case\_LB-229-20-C Al Alloy Carrying Case



M6x30 Hex\_Pack WR284-WR159 Flange Assembly Pack



NM-NM-A050-1000 Flexible Cable Assembly 1000mm DC-18GHz N Male to N Male



NM-NM-A050-1500 Flexible Cable Assembly 1500mm DC-18GHz N Male to N Male



NM-NM-A050-2000 Flexible Cable Assembly 2000mm DC-18GHz N Male to N Male



NM-NM-A050-3000 Flexible Cable Assembly 3000mm DC-18GHz N Male to N Male



NM-NM-A050-5000 Flexible Cable Assembly 5000mm DC-18GHz N Male to N Male



NM-NM-A050-10000 Flexible Cable Assembly 10000mm DC-18GHz N Male to N Male



NM-NM-A050-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male



NM-NM-A100-500 Flexible Cable Assembly 500mm DC- 18GHz N Male to N Male



NM-NM-A100-1000 Flexible Cable Assembly 1000mm DC- 18GHz N Male to N Male



NM-NM-A100-1500 Flexible Cable Assembly 1500mm DC- 18GHz N Male to N Male



NM-NM-A100-2000 Flexible Cable Assembly 2000mm DC- 18GHz N Male to N Male



NM-NM-A100-3000 Flexible Cable Assembly 3000mm DC- 18GHz N Male to N Male



NM-NM-A100-5000 Flexible Cable Assembly 5000mm DC- 18GHz N Male to N Male



NM-NM-A100-10000 Flexible Cable Assembly 10000mm DC- 18GHz N Male to N Male



NM-NM-A100-20000 Flexible Cable Assembly 20000mm DC- 18GHz N Male to N Male

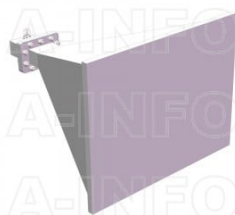
### Similar Products



LB-229-20-A Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain Rectangular Waveguide Interface



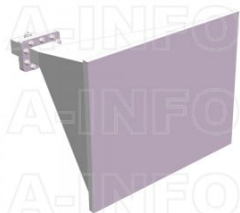
LB-229-20-ASPO Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain Rectangular Waveguide Interface



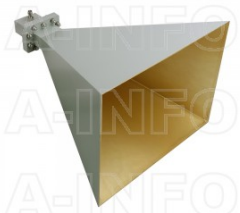
LB-229-20-C-NFSPO Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain N Type Female



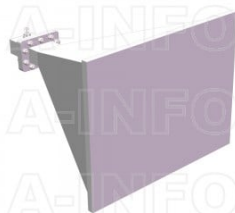
LB-229-20-C-SF Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain SMA Female



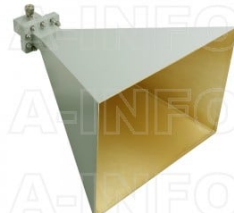
LB-229-20-C-SFSPO Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain SMA Female



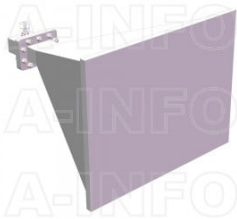
LB-229-20-C-TF Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain TNC Female



LB-229-20-C-TFSPO Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain TNC Female



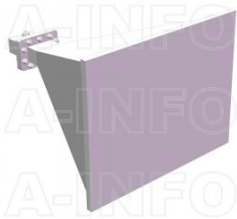
LB-229-20-C-7 Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain 7mm



LB-229-20-C-7SPO Standard Gain  
Horn Antenna 3.3-4.9GHz 20dB  
Gain 7mm



LB-229-20-C-3.5F Standard Gain  
Horn Antenna 3.3-4.9GHz 20dB  
Gain 3.5mm Female



LB-229-20-C-3.5FSPO Standard  
Gain Horn Antenna 3.3-4.9GHz  
20dB Gain 3.5mm Female

About this Datasheet

|                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                |                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>● Product Information</li></ul> <p>Product Link:<br/><a href="https://www.ainfoinc.com/lb-229-20-c-nf-standard-gain-horn-antenna-3-3-4-9-ghz-20db-gain-n-type-female">https://www.ainfoinc.com/lb-229-20-c-nf-standard-gain-horn-antenna-3-3-4-9-ghz-20db-gain-n-type-female</a><br/>Data subject to change without notice.<br/>© A-INFO INC. 2023. All Rights Reserved</p> | <ul style="list-style-type: none"><li>● Contact Us</li></ul> <p>Address:dd<br/>60 Tesla, Irvine, CA 92618,<br/>USA</p> <p>Website:<br/><a href="http://www.ainfoinc.com">www.ainfoinc.com</a></p> <p>Email:<br/><a href="mailto:sales@ainfoinc.com">sales@ainfoinc.com</a></p> | <ul style="list-style-type: none"><li>● Phone &amp; Fax</li></ul> <p>Phone:<br/>+1-949-639-9688<br/>+1-949-639-9608</p> <p>Fax:<br/>+1-949-639-9670</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|