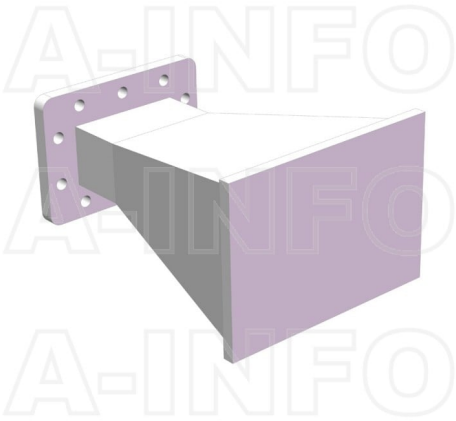




LB-229-10-ASPO Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 3.3GHz to 4.9GHz With a Nominal 10dB Gain With Rectangular Waveguide Interface

Product Information

|     |                |
|-----|----------------|
| SKU | LB-229-10-ASPO |
|-----|----------------|

Description

Standard Gain Horn Antenna LB-229-10-ASPO, operating from 3.3 to 4.9GHz with a nominal 10dB gain and low VSWR 1.15:1 with FDP40 output. The model LB-229-10-ASPO has uniform gain through its frequency span, providing efficient performance characteristics and directionality. Constructed of lightweight corrosion-resistant aluminum, the horn comes with a specially designed weatherproof radome which provides excellent protection against the rain and dust but has very little loss across the full operating frequency band. 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

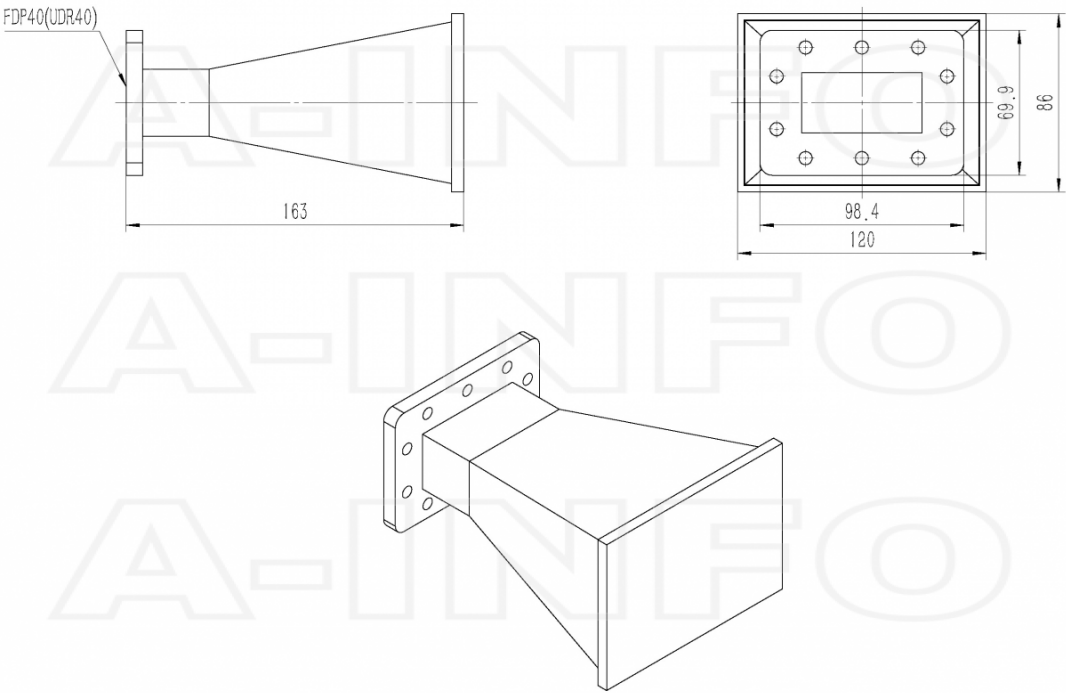
| Electrical Specification           |             | Interface                |                                         |
|------------------------------------|-------------|--------------------------|-----------------------------------------|
| Frequency, Min (GHz)               | 3.3         | Output Type              | Waveguide                               |
| Frequency, Max (GHz)               | 4.9         | Flange Style             | Rectangular                             |
| Waveguide Type                     | Rectangular | Flange Type              | Cover                                   |
| Waveguide Size EIA WR              | WR229       | Flange Designation       | FDP40(UDR40)                            |
| Gain, Typ (dBi)                    | 10          | Mechanical Specification |                                         |
| Polarization                       | Linear      | Figure                   | A Type                                  |
| 3dB Beamwidth, E-Plane, Typ (Deg.) | 50          | Body Material            | Al                                      |
| 3dB Beamwidth, H-Plane, Typ (Deg.) | 44          | Finish                   | Chemical Conversion Coating, Gray Paint |
| Cross Pol. Isolation, Typ (dB)     | 30          | Size, W (mm)             | 120                                     |
| VSWR, Typ                          | 1.15:1      | Size, H (mm)             | 86                                      |
|                                    |             | Size, L (mm)             | 163                                     |
|                                    |             | Weight, (kg)             | 0.31                                    |

Additional Information

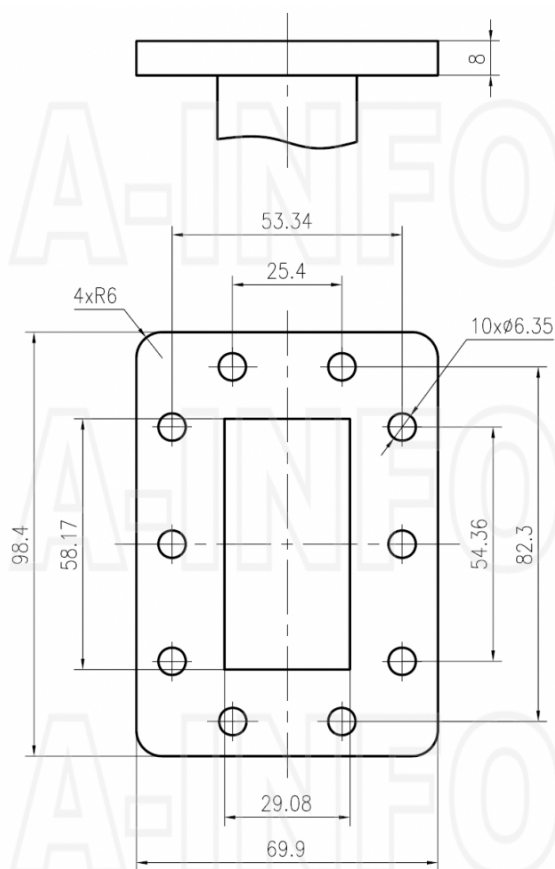
|             |                                          |              |                                                                                                                                 |
|-------------|------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| Application | Outdoor, Waterproof and Dustproof, Fixed | Solution for | Gain Reference<br>Antenna Measurement<br>Reflector Feed<br>Far-field Measurement<br>System Intergration<br>Material Measurement |
|-------------|------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|

Outline Drawing

FDP40 Output with Radome (Option, P/N: LB-229-10-ASPO, Outdoor Application)



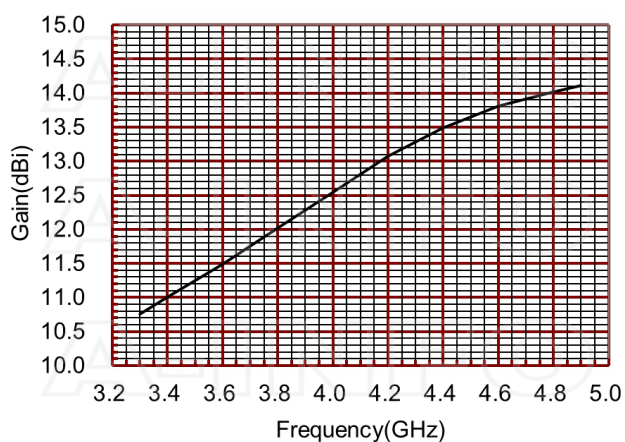
## Flange Drawing



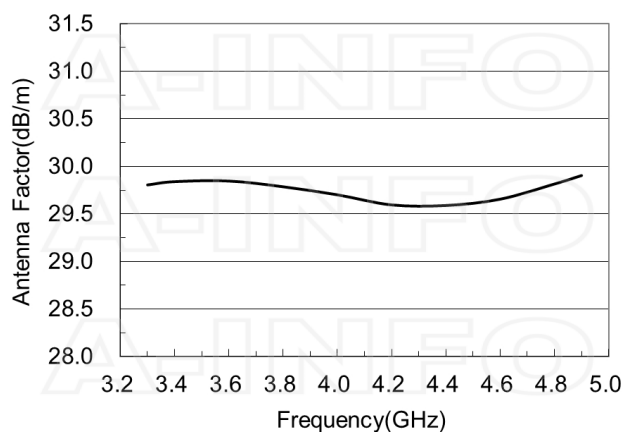
FDP40

## Typical Test Results

### Gain



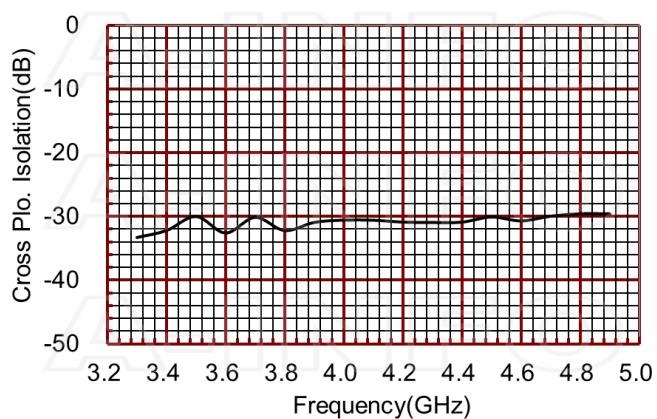
### Antenna Factor



### Antenna Factor (Table)

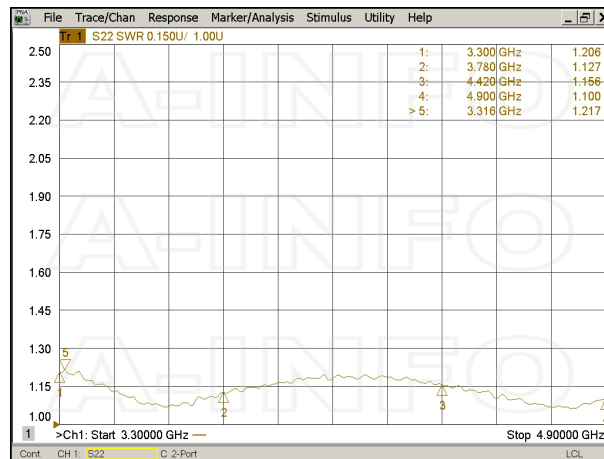
| Frequency(GHz) | Gain(dBi) | Antenna Factor(dB/m) |
|----------------|-----------|----------------------|
| 3.2            | 10.55     | 29.82                |
| 3.4            | 11.00     | 29.84                |
| 3.6            | 11.49     | 29.85                |
| 3.8            | 12.02     | 29.79                |
| 4.0            | 12.55     | 29.70                |
| 4.2            | 13.08     | 29.59                |
| 4.4            | 13.49     | 29.59                |
| 4.6            | 13.81     | 29.66                |
| 4.8            | 14.02     | 29.81                |
| 4.9            | 14.11     | 29.90                |

### Cross Polarization Isolation

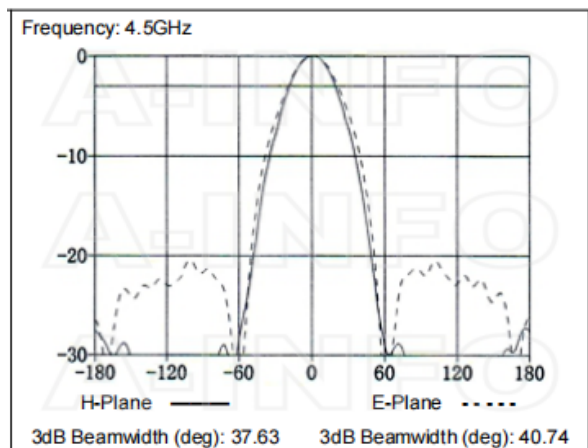
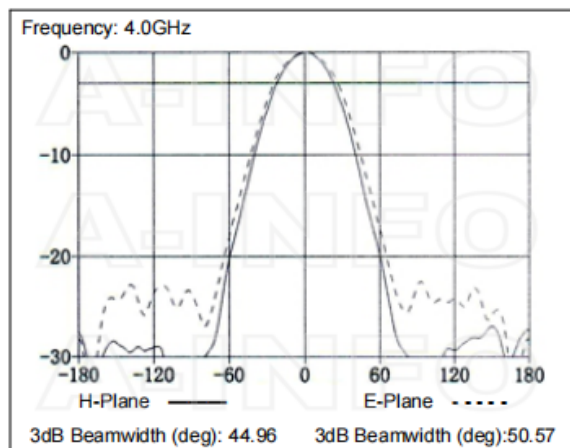
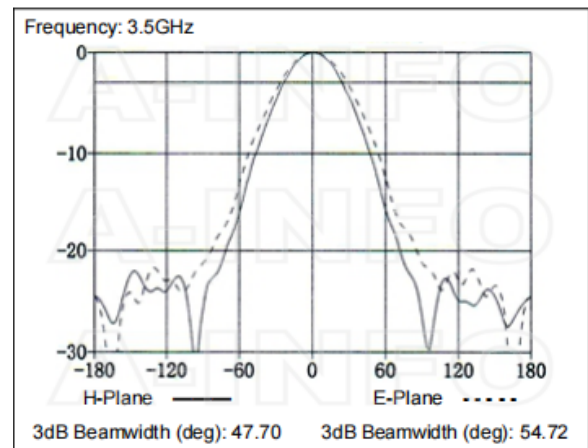
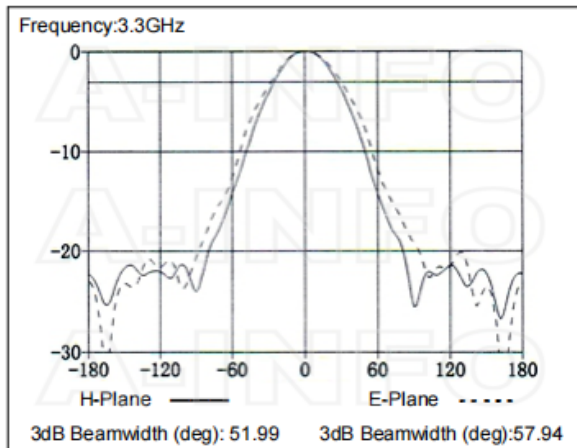


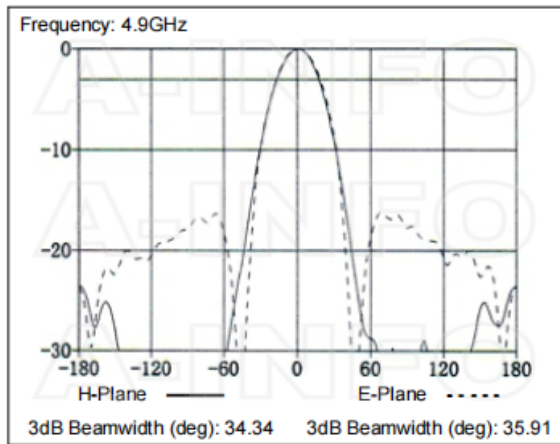


### VSWR

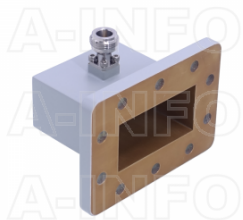


### Pattern





### Related Products



229WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to N Type Female



229WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to N Type Male



229WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to SMA Female



229WCASM Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to SMA Male



229WCAT Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to TNC Female



229WCATM Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to TNC Male



229WCA7 Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 7mm



229WCA3.5 Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 3.5mm Female



229WCA3.5M Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 3.5mm Male



229WCAK Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 2.92mm Female



229WCAKM Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 2.92mm Male



229WCA2.4 Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 2.4mm Female



229WCA2.4M Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 2.4mm Male



229WECAN Endlaunch Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to N Type Female



229WECAS Endlaunch Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to SMA Female



229WECAK Endlaunch Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 2.92mm Female



M6x30 Hex\_Pack WR284-WR159 Flange Assembly Pack

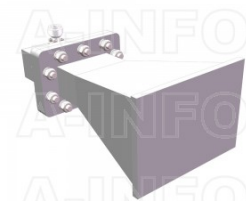
### Similar Products



LB-229-10-A Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain Rectangular Waveguide Interface



LB-229-10-C-NF Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain N Type Female



LB-229-10-C-NFSPO Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain N Type Female



LB-229-10-C-SF Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain SMA Female



LB-229-10-C-SFSPO Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain SMA Female



LB-229-10-C-TF Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain TNC Female



LB-229-10-C-TFSPO Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain TNC Female



LB-229-10-C-7 Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain 7mm



LB-229-10-C-7SPO Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain 7mm



LB-229-10-C-3.5F Standard Gain Horn Antenna 3.3-4.9GHz 10dB Gain 3.5mm Female



LB-229-10-C-3.5FSPO Standard Gain Horn Antenna 3.3-4.9GHz 10dB 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-229-10-aspo-standard-gain-horn-antenna-3-3-4-9-ghz-10db-gain-fdp40">https://www.ainfoinc.com/lb-229-10-aspo-standard-gain-horn-antenna-3-3-4-9-ghz-10db-gain-fdp40</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, 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> |
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