

LB-75180-10-A Multi Octave Horn Antenna 7.5-18GHz 10dB Gain Double Ridge Waveguide Interface



Multi Octave Horn Antenna From 7.5GHz to 18GHz With a Nominal 10dB Gain With Double Ridge Waveguide Interface

Product Information

| | |
|-----|---------------|
| SKU | LB-75180-10-A |
|-----|---------------|

Description

Multi octave horn antenna LB-75180-10-A, operating from 7.5 to 18GHz with a nominal 10dB gain and low VSWR 1.5:1 with FPWRD750D24 output. The model LB-75180-10-A has uniform gain through its frequency span, providing efficient performance characteristics and directionality. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This multi 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

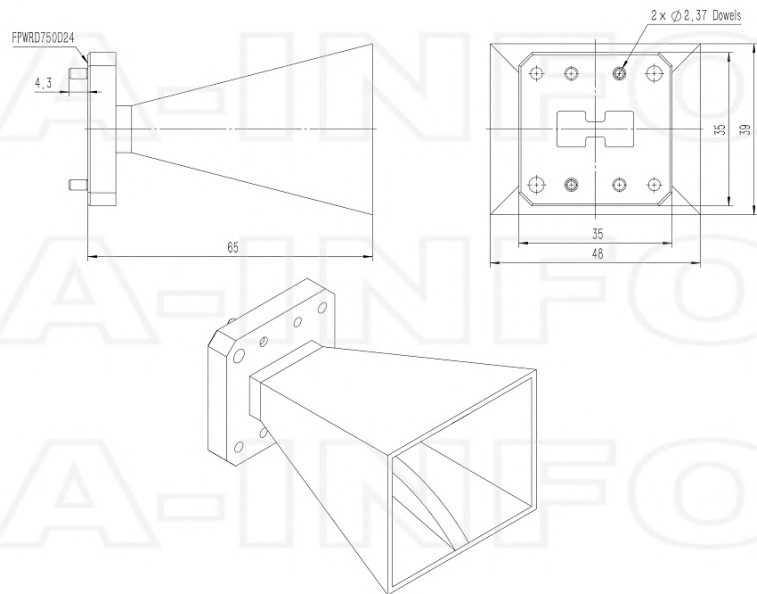
| Electrical Specification | | Interface | |
|------------------------------------|--------------|--------------------------|---------------------------|
| Frequency, Min (GHz) | 7.5 | Output Type | Waveguide |
| Frequency, Max (GHz) | 18 | Flange Designation, WRD | FPWRD750D24 |
| Waveguide Type | Double Ridge | Connector Gender | N/A |
| Waveguide Size EIA WRD | WRD750 | Mechanical Specification | |
| Gain, Typ (dBi) | 10 | Figure | A Type |
| Polarization | Linear | Body Material | Al |
| 3dB Beamwidth, E-Plane, Min (Deg.) | 26 | Finish | Nickel Plated, Gray Paint |
| 3dB Beamwidth, E-Plane, Max (Deg.) | 56 | Size, W (mm) | 48 |
| 3dB Beamwidth, H-Plane, Min (Deg.) | 26 | Size, H (mm) | 39 |
| 3dB Beamwidth, H-Plane, Max (Deg.) | 57 | Size, L (mm) | 65 |
| Cross Pol. Isolation, Typ (dB) | 35 | Weight, (kg) | 0.05 |
| VSWR, Typ | 1.5:1 | | |

Additional Information

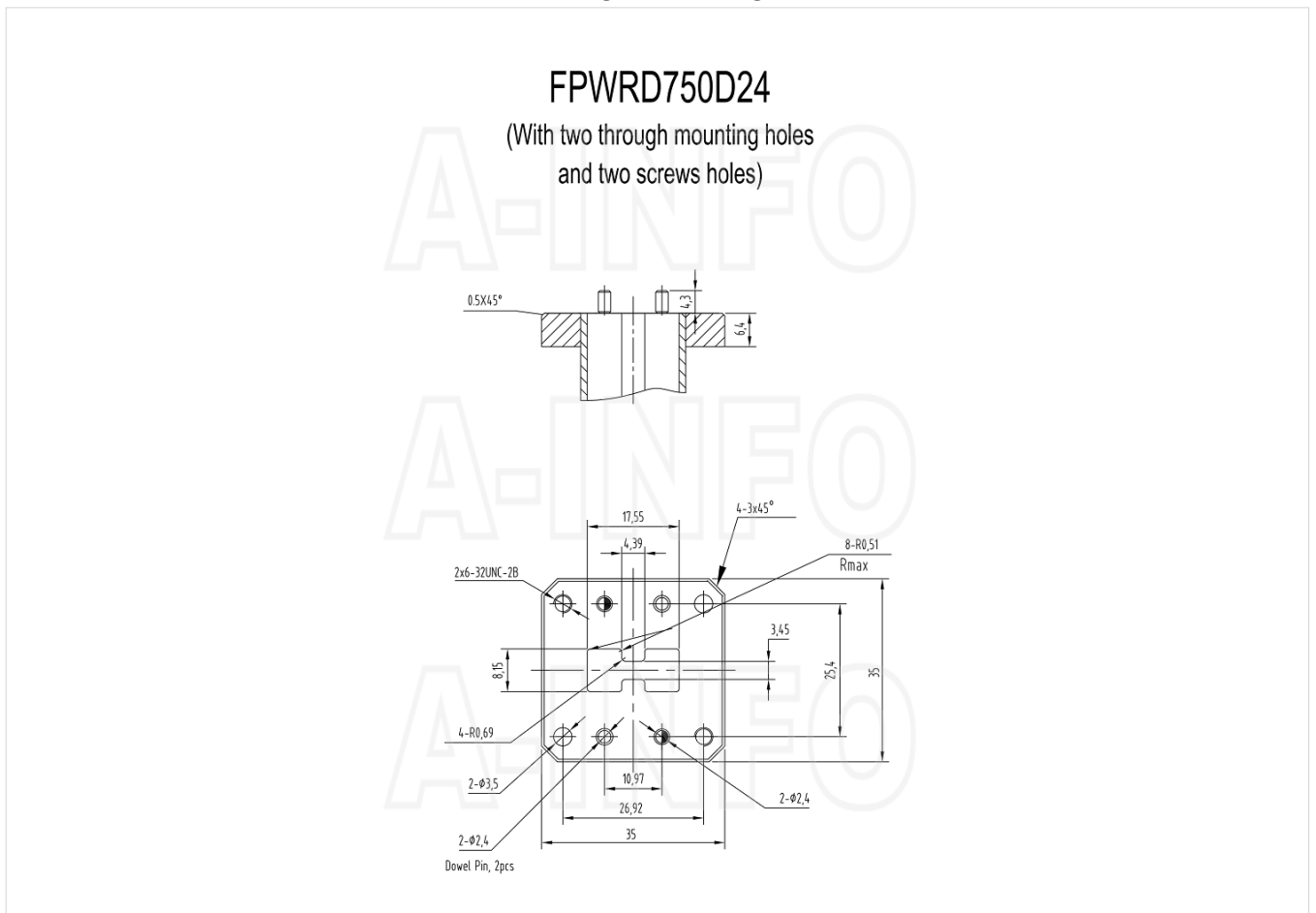
| | | | |
|-------------|---|--------------|---|
| Application | General Purpose Indoor & Outdoor, Fixed | Solution for | Gain Reference Antenna Measurement Far-field Measurement System Intergration |
|-------------|---|--------------|---|

Outline Drawing

FPWRD750D24 Output (P/N: LB-75180-10-A)

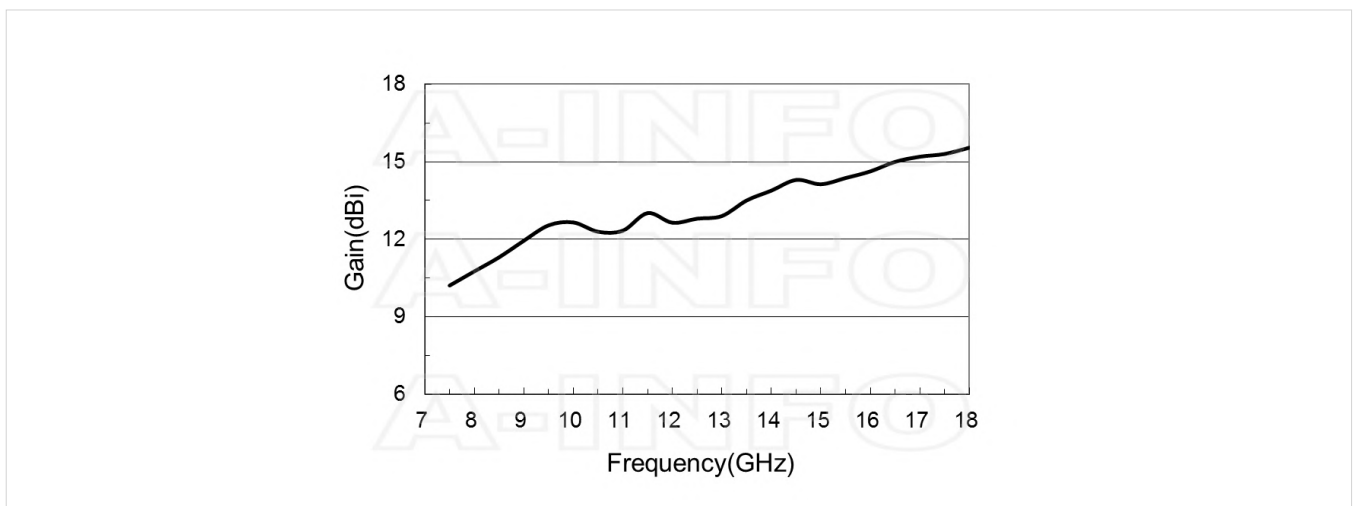


Flange Drawing

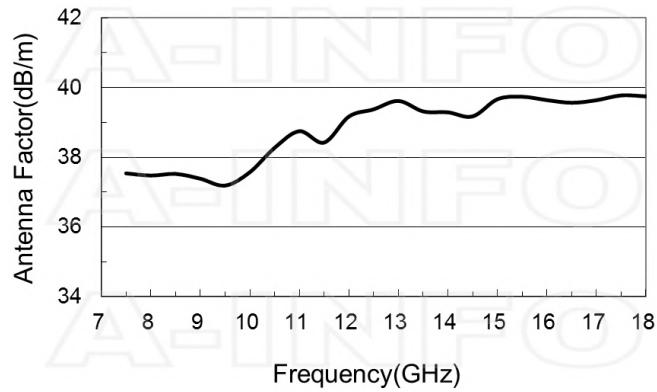


Typical Test Results

Gain



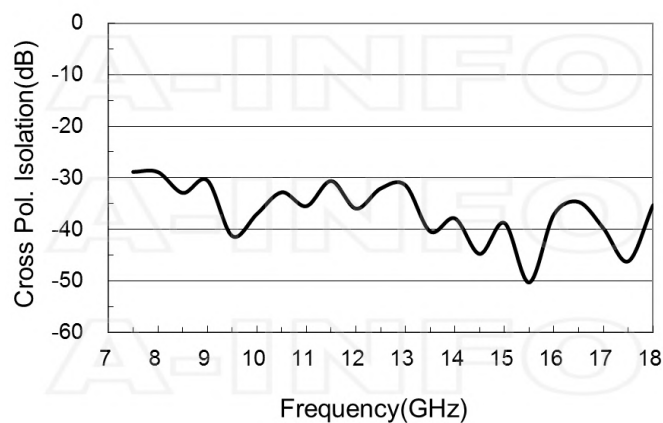
Antenna Factor



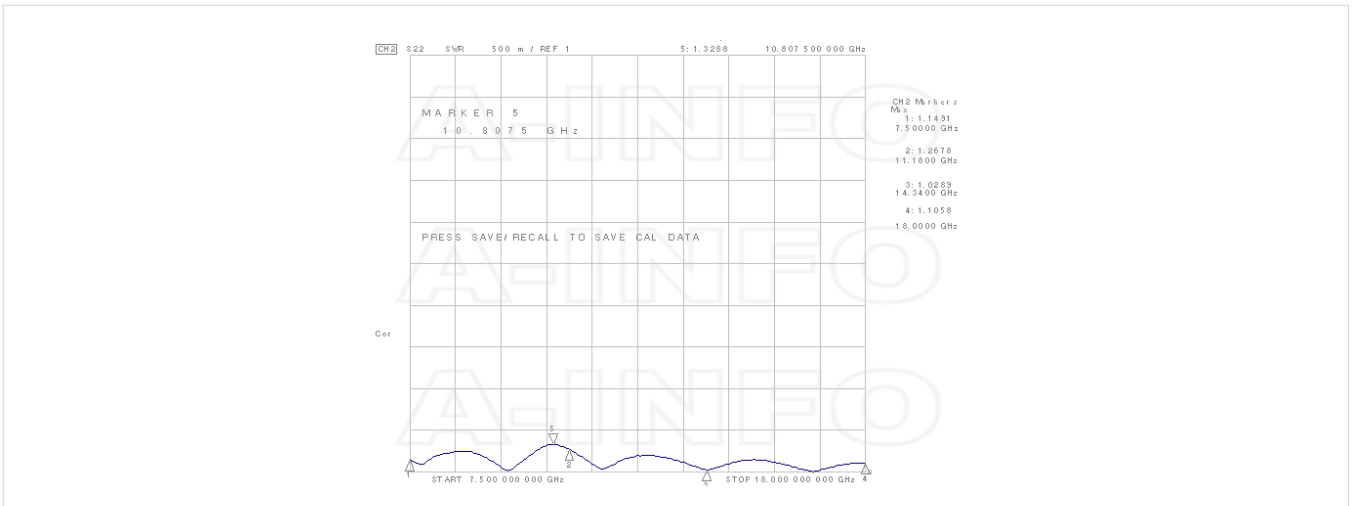
Antenna Factor (Table)

| Frequency(GHz) | Gain(dBi) | AF(dB/m) |
|----------------|-----------|----------|
| 7.5 | 10.21 | 37.50 |
| 8.0 | 10.76 | 37.51 |
| 9.0 | 11.95 | 37.35 |
| 10.0 | 12.65 | 37.56 |
| 11.0 | 12.34 | 38.70 |
| 12.0 | 12.64 | 39.15 |
| 13.0 | 12.90 | 39.59 |
| 14.0 | 13.89 | 39.25 |
| 15.0 | 14.13 | 39.60 |
| 16.0 | 14.63 | 39.66 |
| 17.0 | 15.20 | 39.62 |
| 18.0 | 15.55 | 39.77 |

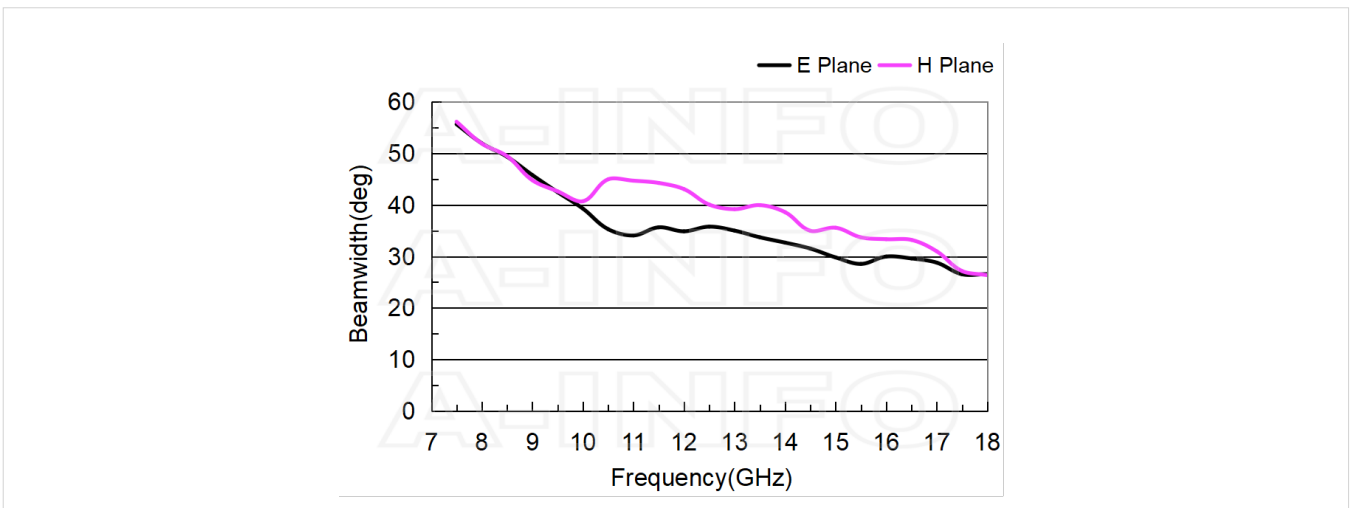
Cross Polarization Isolation



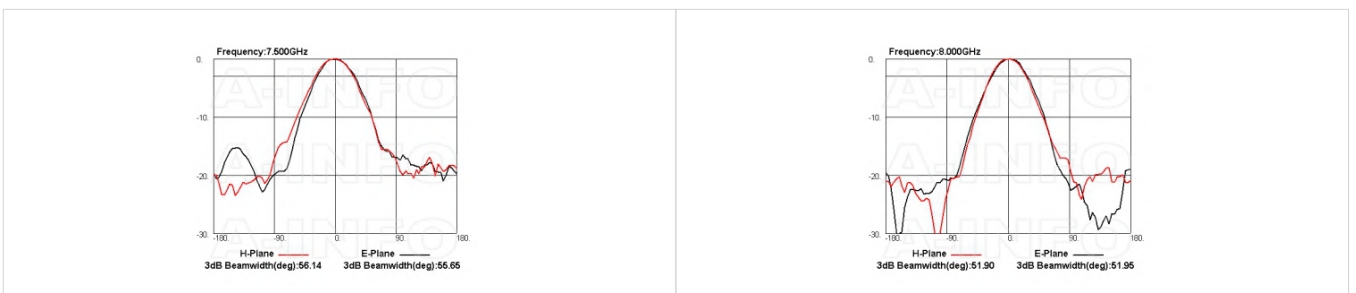
VSWR

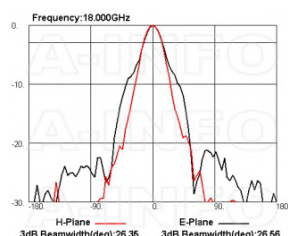
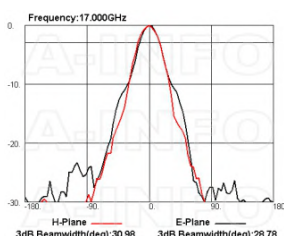
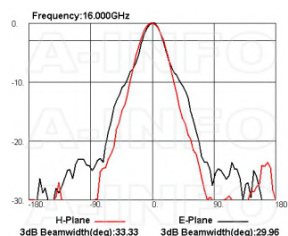
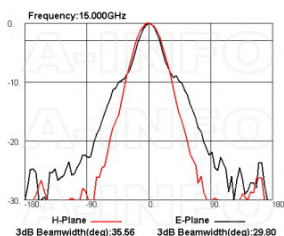
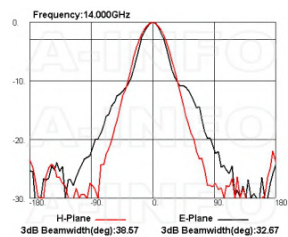
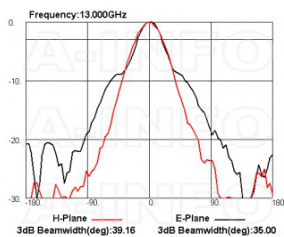
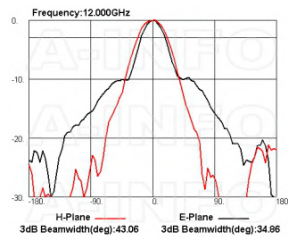
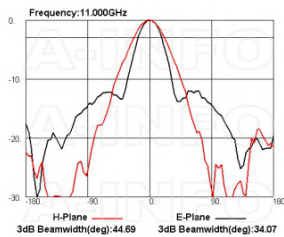
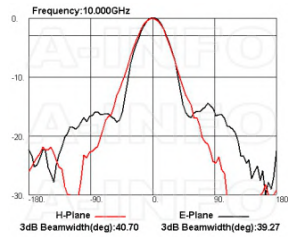
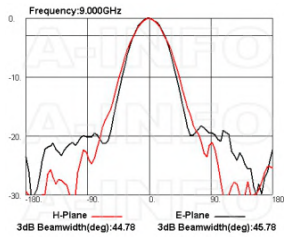


Beamwidth



Pattern





Related Products



750DRWCAN_Cu Right Angle Double Ridge Waveguide to Coaxial Adapter 7.5-18GHz WRD750 to N Type Female



750DRWCAS_Cu Right Angle Double Ridge Waveguide to Coaxial Adapter 7.5-18GHz WRD750 to SMA Female



750DRWECAN_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 7.5-18GHz WRD750 to N Type Female



750DRWECAS_Cu Endlaunch Double Ridge Waveguide to Coaxial Adapter 7.5-18GHz WRD750 to SMA Female



750DRWHCAN_Cu Right Angle High Power Double Ridge Waveguide to Coaxial Adapter 7.5-18GHz WRD750 to N Type Female



LB-75180-10-C-MB Round Type Mounting Bracket



LB-75180-10-C-MBL L Type Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case_LB-75180-10 Al Alloy Carrying Case

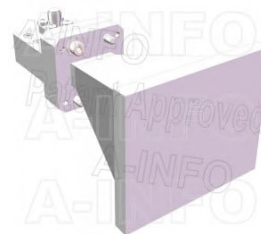
Similar Products



LB-75180-10-ASPO Multi Octave Horn Antenna 7.5-18GHz 10dB Gain Double Ridge Waveguide Interface



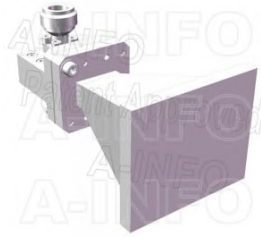
LB-75180-10-C-SF Multi Octave Horn Antenna 7.5-18GHz 10dB Gain SMA Female



LB-75180-10-C-SFSP Multi Octave Horn Antenna 7.5-18GHz 10dB Gain SMA Female



LB-75180-10-C-NF Multi Octave Horn Antenna 7.5-18GHz 10dB Gain N Type Female



LB-75180-10-C-NFSPO Multi Octave Horn Antenna 7.5-18GHz 10dB Gain N Type Female



LB-75180-10-C-HNF Multi Octave Horn Antenna 7.5-18GHz 10dB Gain High Power N Type Female



LB-75180-10-C-HNFSPO Multi Octave Horn Antenna 7.5-18GHz 10dB Gain High Power N Type Female

About this Datasheet

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| <ul style="list-style-type: none"> • Product Information Product Link: https://www.ainfoinc.com/lb-75180-10-a-multi-octave-horn-antenna-7-5-18-ghz-10db-gain-fpwr750d24 Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved | <ul style="list-style-type: none"> • Contact Us Address: 60 Tesla, Irvine, CA 92618, USA Website: www.ainfoinc.com Email: sales@ainfoinc.com | <ul style="list-style-type: none"> • Phone & Fax Phone: +1-949-639-9688 +1-949-639-9608 Fax: +1-949-639-9670 |
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