

### LB-75180-15-A Multi Octave Horn Antenna 7.5-18GHz 15dB Gain Double Ridge Waveguide Interface



Multi Octave Horn Antenna From 7.5GHz to 18GHz With a Nominal 15dB Gain With Double Ridge Waveguide Interface

### Product Information

SKU	LB-75180-15-A
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### Description

Multi octave horn antenna LB-75180-15-A, operating from 7.5 to 18GHz with a nominal 15dB gain and low VSWR 1.5:1 with FPWRD750D24 output. The model LB-75180-15-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

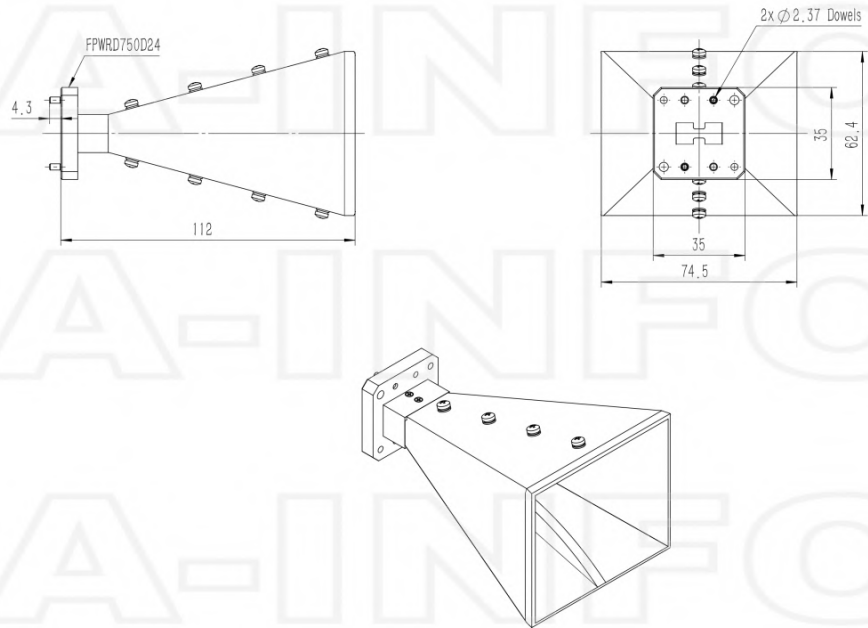
Electrical Specification		Interface	
Frequency, Min (GHz)	7.5	Output Type	Waveguide
Frequency, Max (GHz)	18	Flange Designation, WRD	FPWRD750D24
Waveguide Type	Double Ridge	Connector Gender	N/A
Waveguide Size EIA WRD	WRD750	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	A Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	19	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	34	Size, W (mm)	74.5
3dB Beamwidth, H-Plane, Min (Deg.)	18	Size, H (mm)	62.4
3dB Beamwidth, H-Plane, Max (Deg.)	38	Size, L (mm)	112
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	0.16
VSWR, Typ	1.5:1		

## Additional Information

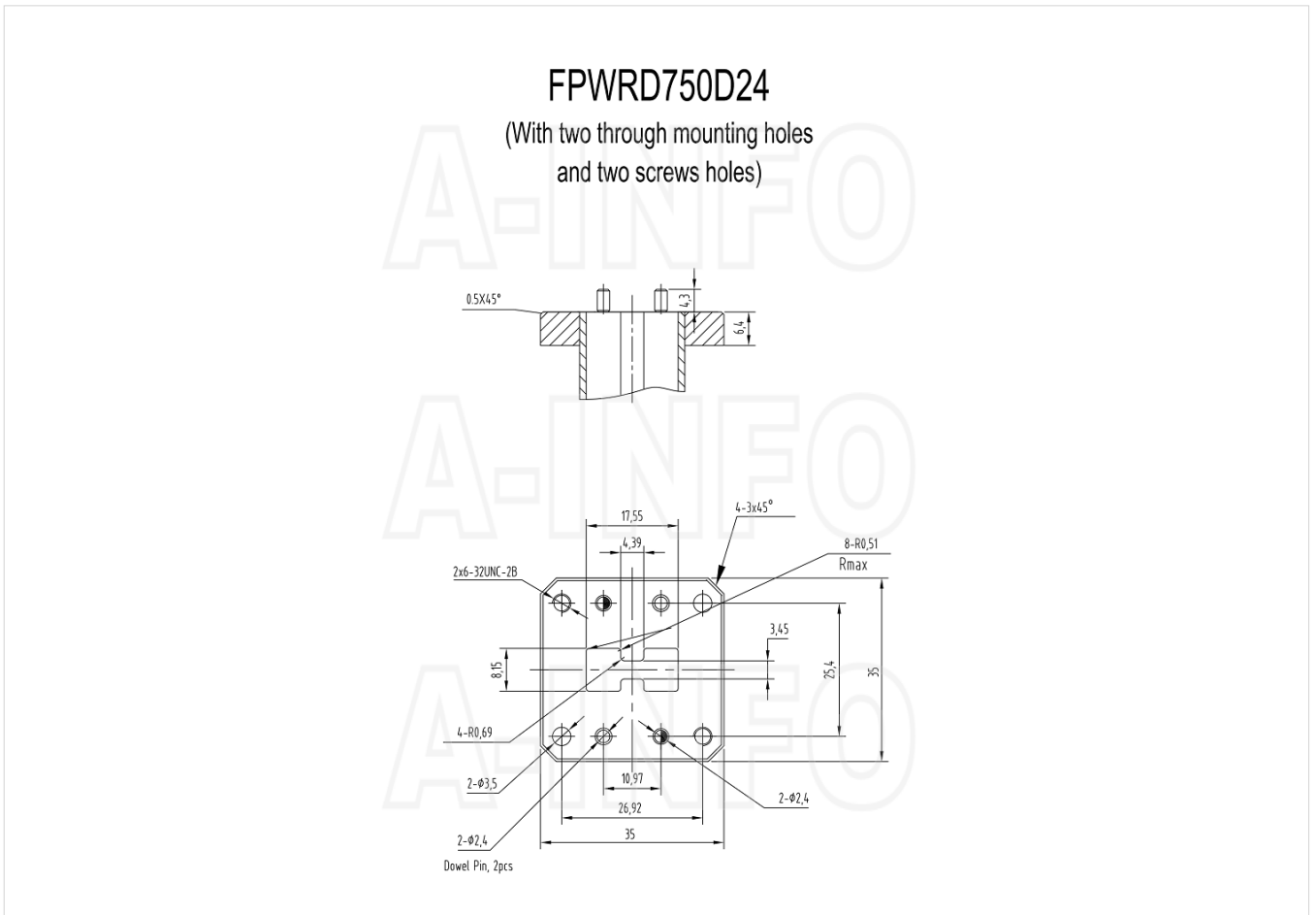
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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## Outline Drawing

FPWRD750D24 Output (P/N: LB-75180-15-A)

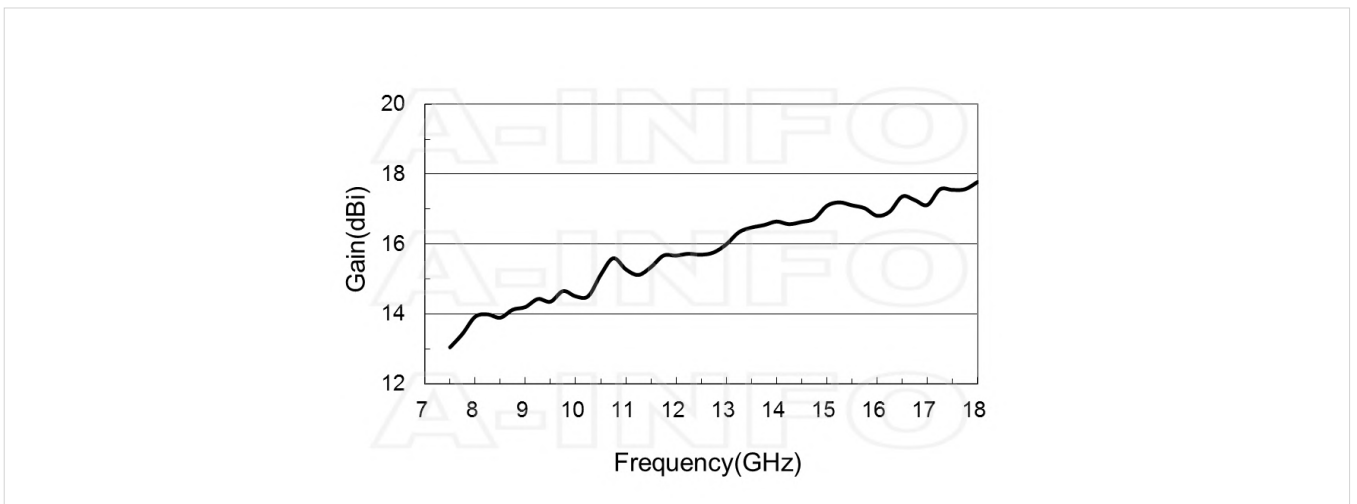


## Flange Drawing

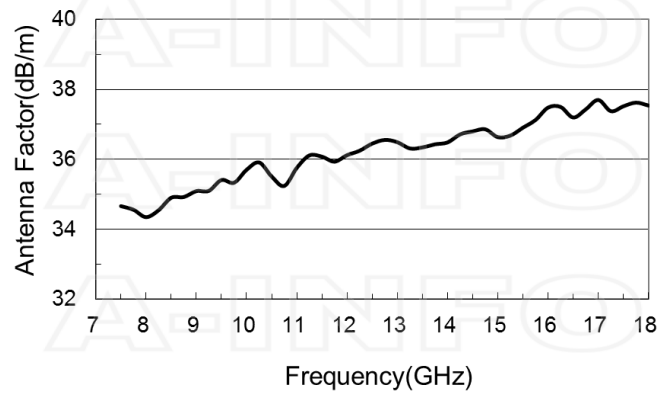


## Typical Test Results

### Gain



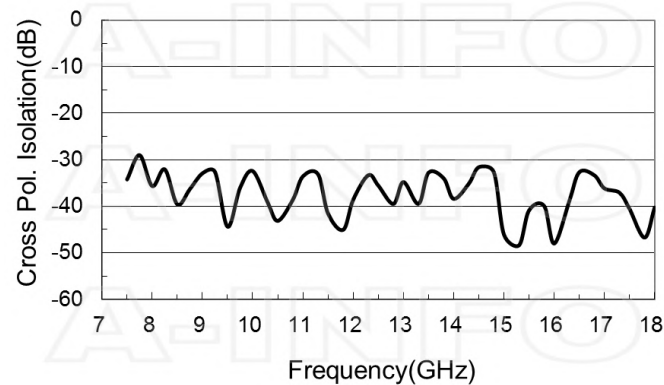
## Antenna Factor



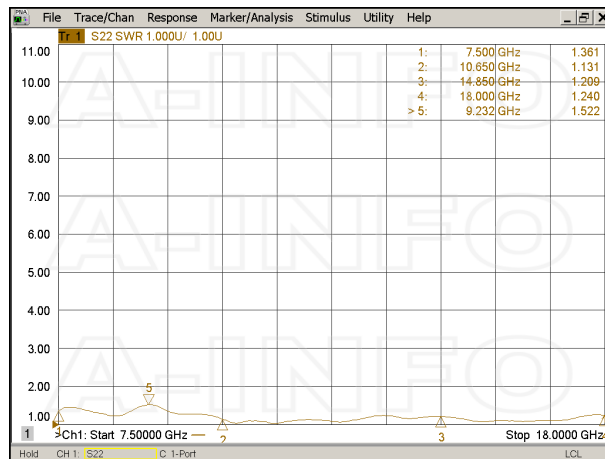
## Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
7.5	13.05	34.66
8.0	13.92	34.35
9.0	14.20	35.09
10.0	14.51	35.70
11.0	15.28	35.76
12.0	15.67	36.12
13.0	16.00	36.49
14.0	16.65	36.49
15.0	17.10	36.64
16.0	16.81	37.48
17.0	17.12	37.70
18.0	17.78	37.54

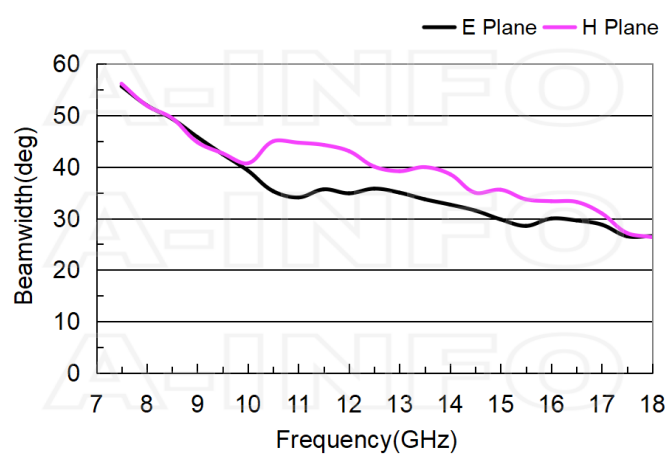
## Cross Polarization Isolation



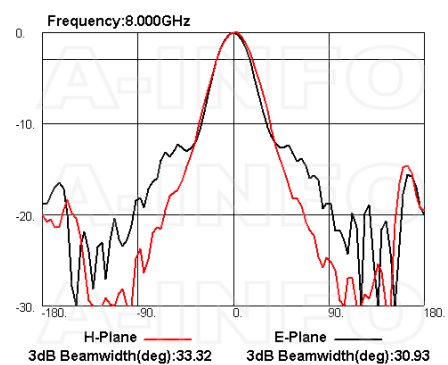
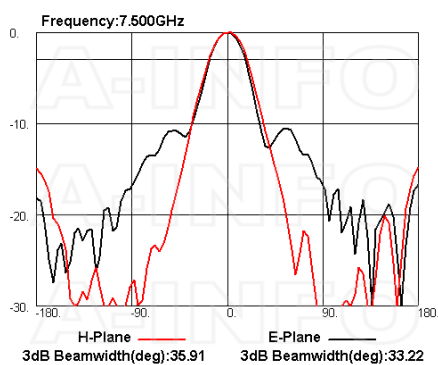
## VSWR

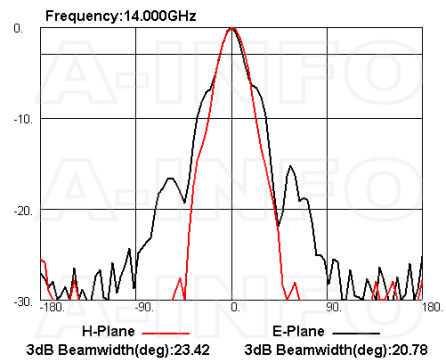
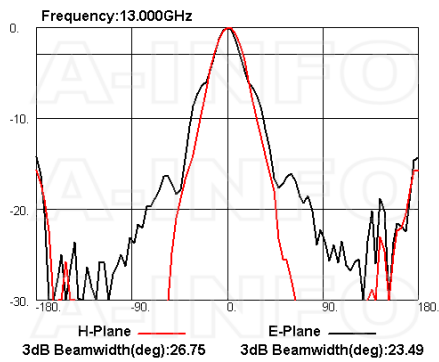
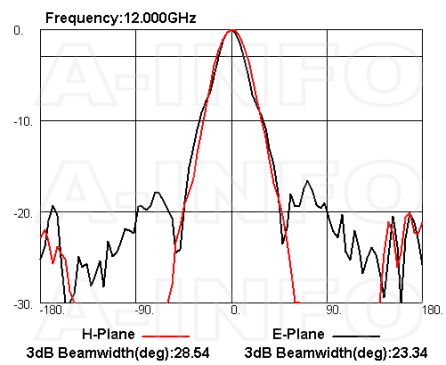
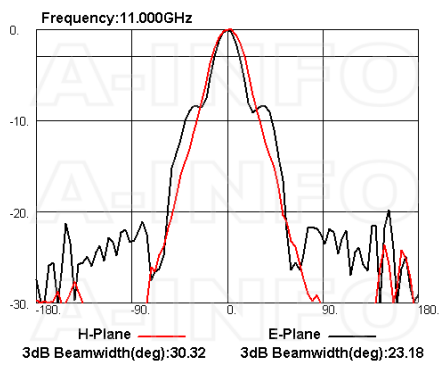
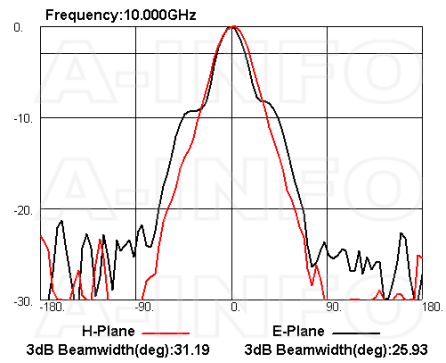
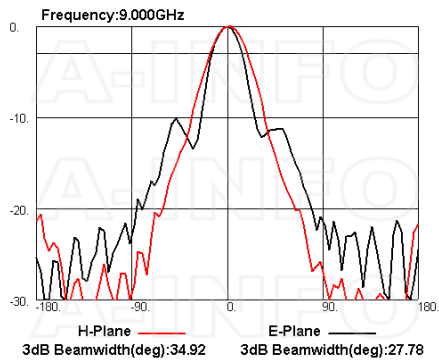


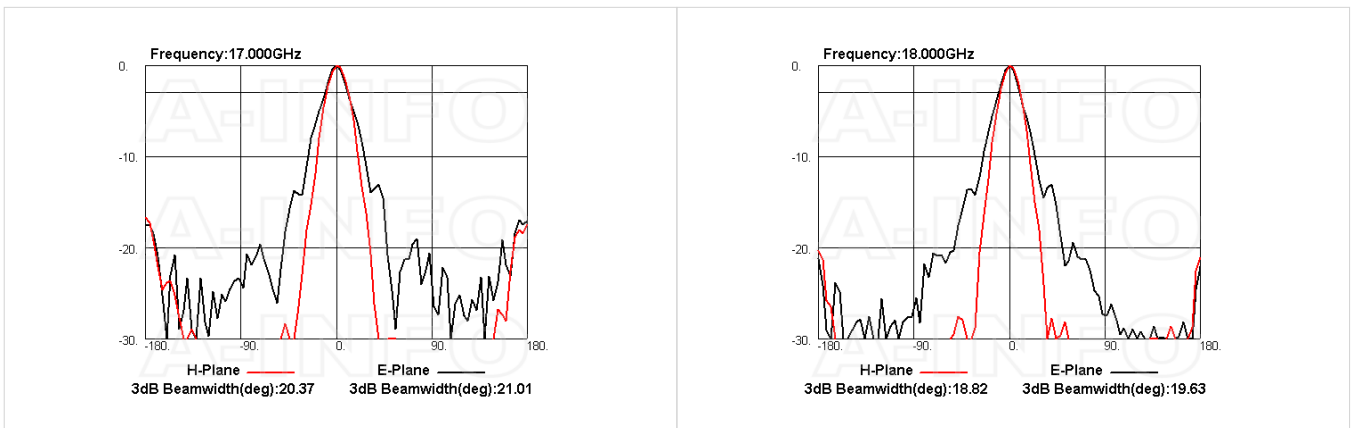
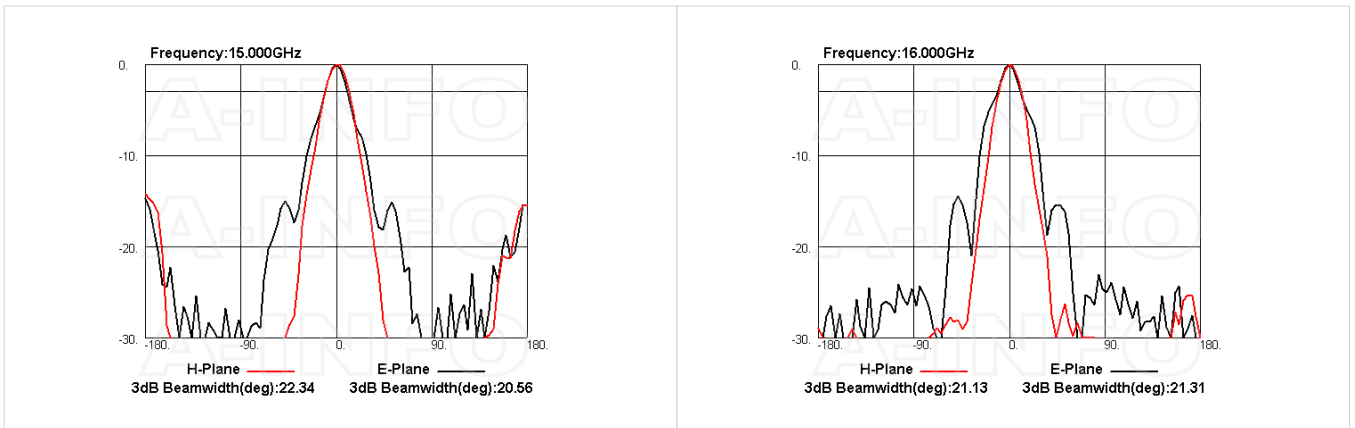
## Beamwidth



## 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

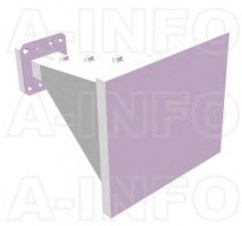


3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree

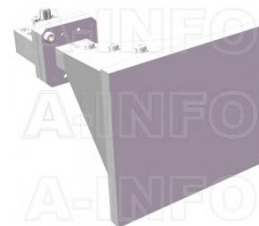
## Similar Products



LB-75180-15-ASPO Multi Octave Horn Antenna 7.5-18GHz 15dB Gain Double Ridge Waveguide Interface



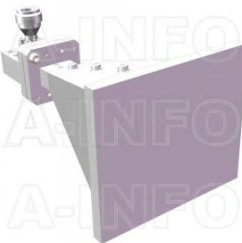
LB-75180-15-C-SF Multi Octave Horn Antenna 7.5-18GHz 15dB Gain SMA Female



LB-75180-15-C-SFSPO Multi Octave Horn Antenna 7.5-18GHz 15dB Gain SMA Female



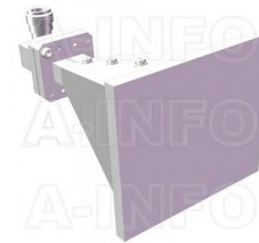
LB-75180-15-C-NF Multi Octave Horn Antenna 7.5-18GHz 15dB Gain N Type Female



LB-75180-15-C-NFSPO Multi Octave Horn Antenna 7.5-18GHz 15dB Gain N Type Female



LB-75180-15-C-HNF Multi Octave Horn Antenna 7.5-18GHz 15dB Gain High Power N Type Female



LB-75180-15-C-HNFSPO Multi Octave Horn Antenna 7.5-18GHz 15dB Gain High Power N Type 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-75180-15-a-multi-octave-horn-antenna-7-5-18-ghz-15db-gain-fpwr750d24">https://www.ainfoinc.com/lb-75180-15-a-multi-octave-horn-antenna-7-5-18-ghz-15db-gain-fpwr750d24</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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