

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



Multi Octave Horn Antenna Operating From 7.5GHz to 18GHz With a Nominal 10dB Gain With N Type Female Connector

### Product Information

SKU	LB-75180-10-C-NF
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### Description

Multi octave horn antenna LB-75180-10-C-NF, operating from 7.5 to 18GHz with a nominal 10dB gain and low VSWR 1.5:1 with N Type Female output connector. The model LB-75180-10-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 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

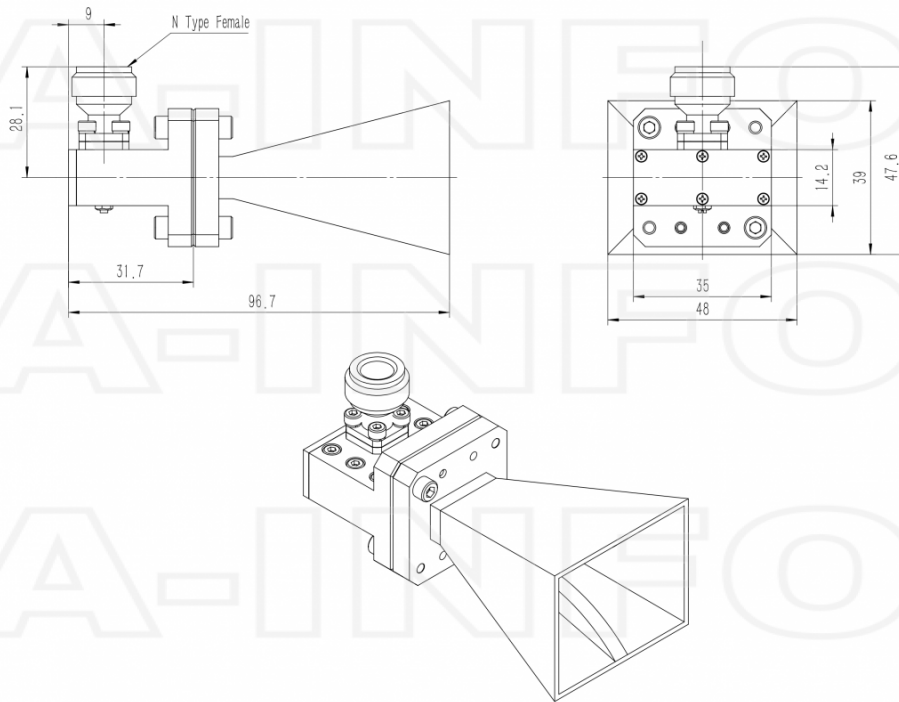
Electrical Specification		Interface	
Frequency, Min (GHz)	7.5	Output Type	Coaxial
Frequency, Max (GHz)	18	Connector	N Type
Waveguide Type	Double Ridge	Connector Gender	Female
Waveguide Size EIA WRD	WRD750	Mechanical Specification	
Gain, Typ (dBi)	10	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	26	Finish	Nickel Plated and Passivation, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	56	Size, W (mm)	48
3dB Beamwidth, H-Plane, Min (Deg.)	26	Size, H (mm)	52.6
3dB Beamwidth, H-Plane, Max (Deg.)	57	Size, L (mm)	96.7
Cross Pol. Isolation, Typ (dB)	35	Weight, (kg)	0.21
VSWR, Typ	1.5:1		
Impedance, (Ohm)	50		
Power Handling, CW, (W)	150		
Power Handling, Peak, (W)	3000		

## Additional Information

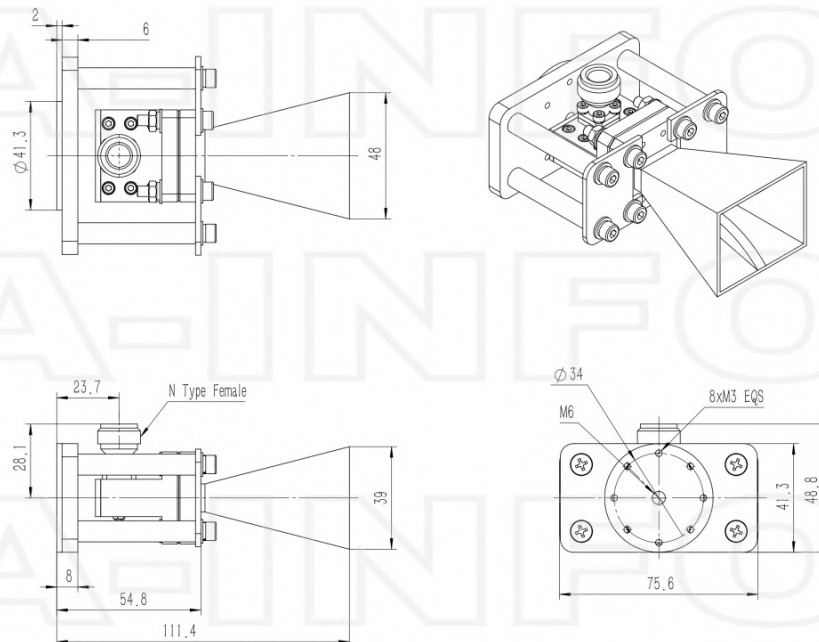
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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## Outline Drawing

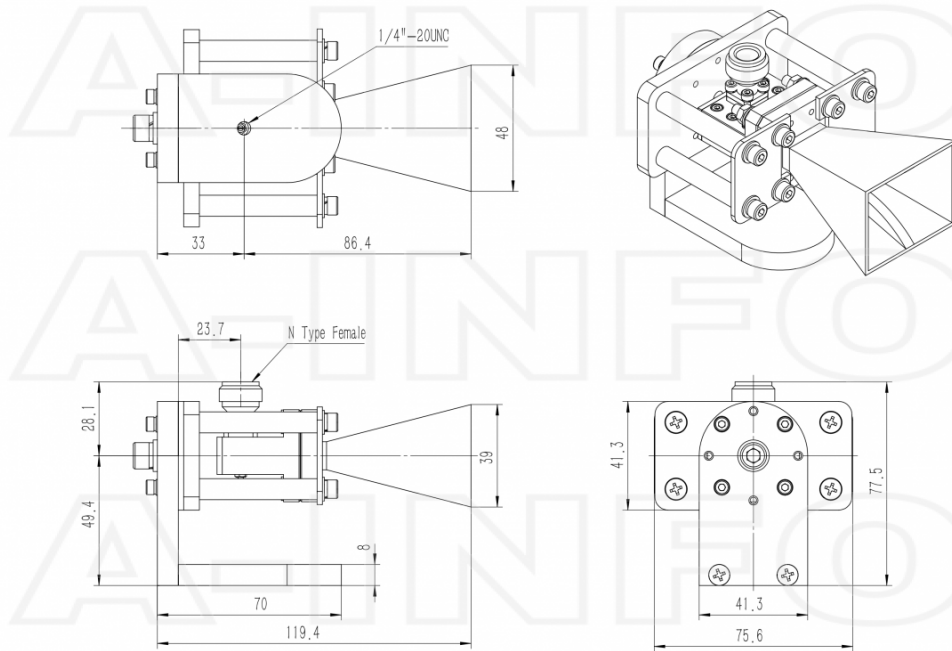
N-Female Output (P/N: LB-75180-10-C-NF)



N-Female Output with Round Mounting Bracket (Option, P/N: LB-75180-10-C-MB)

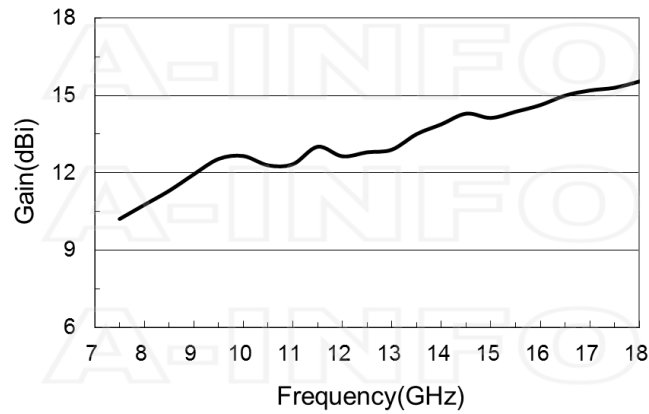


N-Female Output with L Type Mounting Bracket (Option, P/N: LB-75180-10-C-MBL)

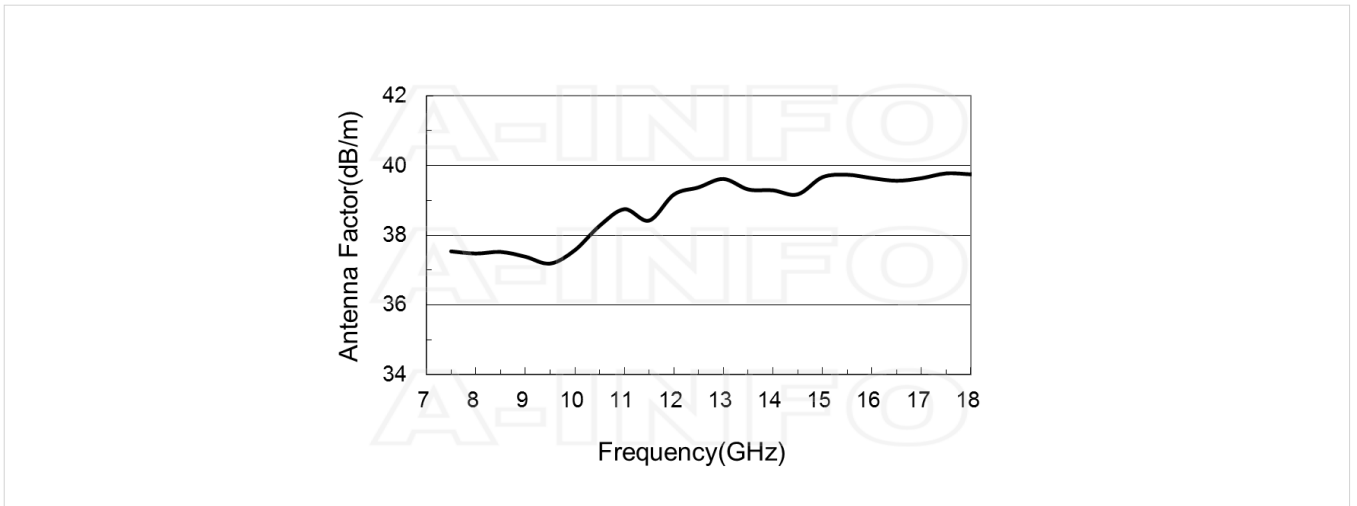


## Typical Test Results

### Gain



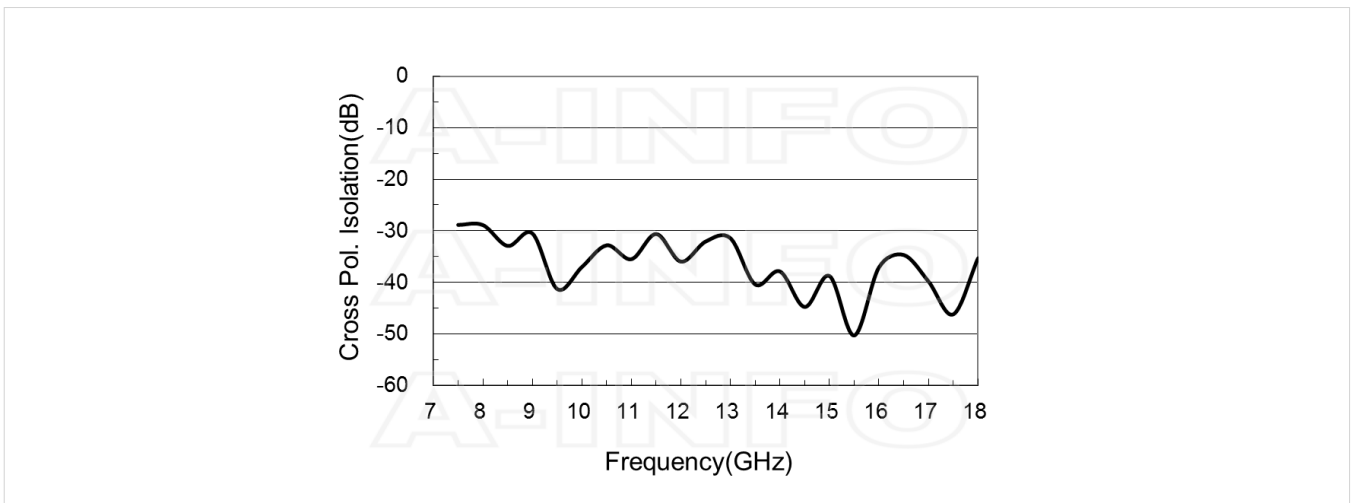
## Antenna Factor



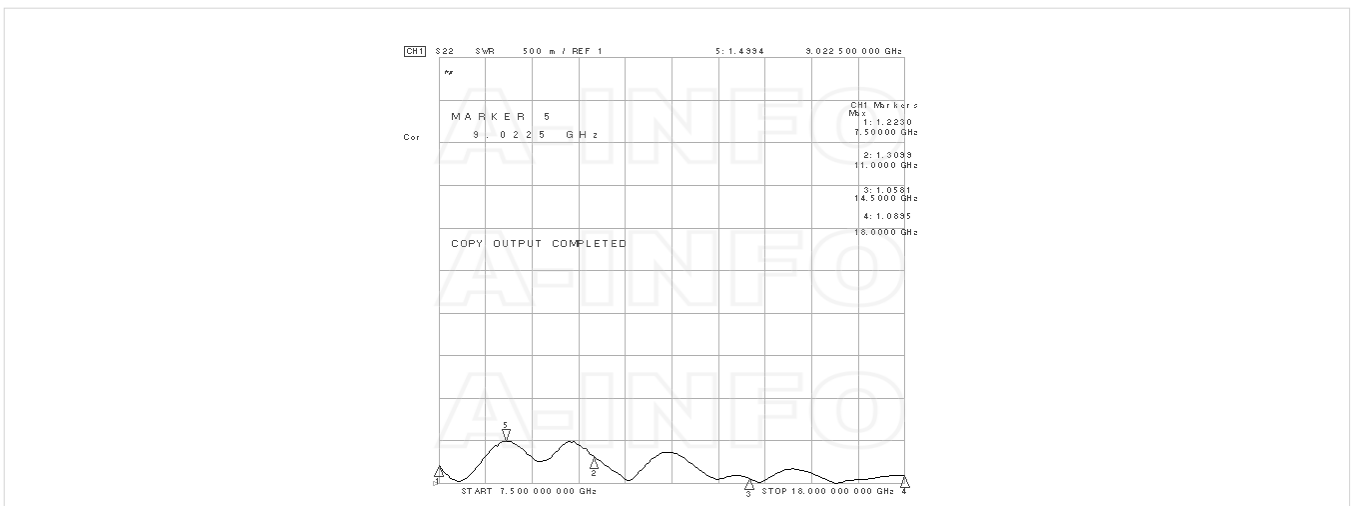
## Antenna Factor (Table)

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

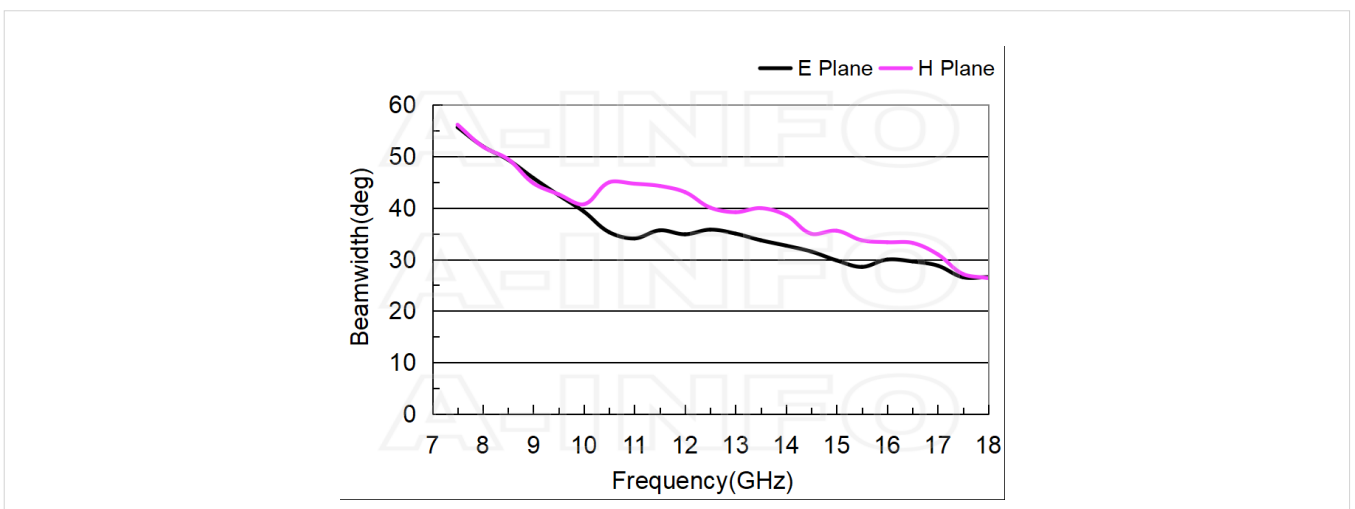
## Cross Polarization Isolation



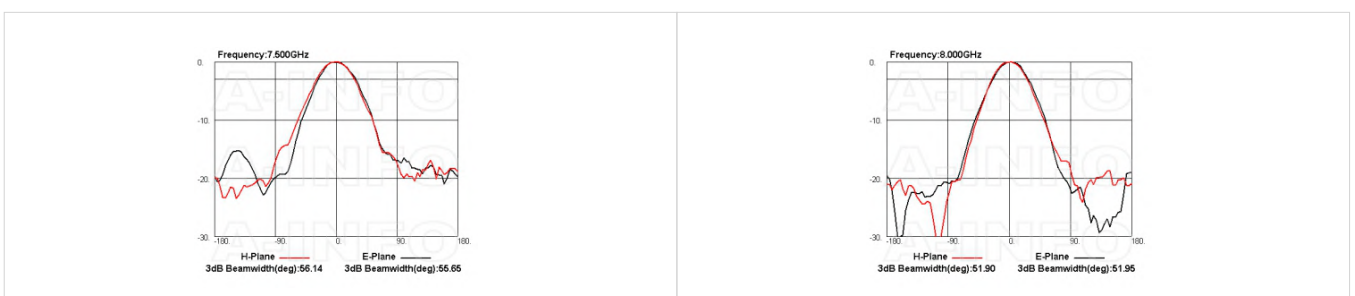
### VSWR

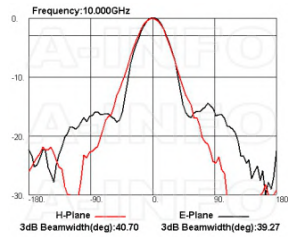
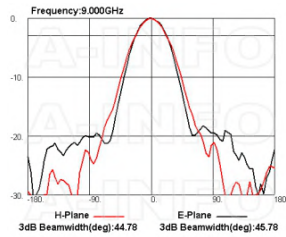


### Beamwidth

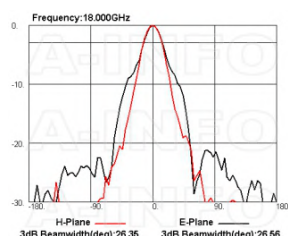
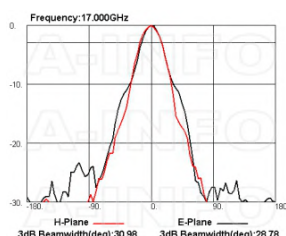
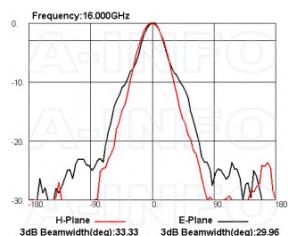
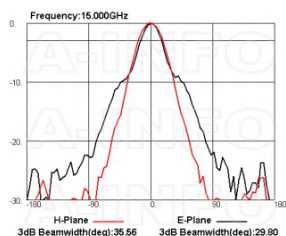
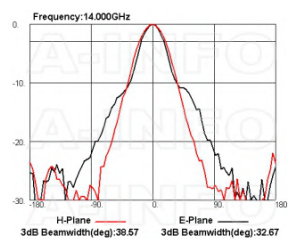
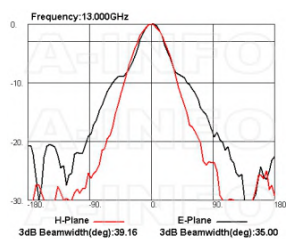
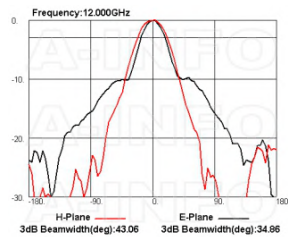
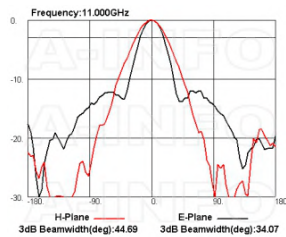


### Pattern





50



## Related Products



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



NM-NM-A050-500 Flexible Cable Assembly 500mm DC- 18GHz N Male to N Male



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

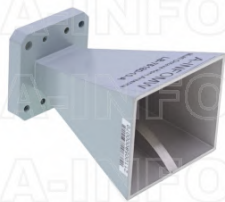


NM-NM-A100-10000 Flexible Cable Assembly 10000mm DC-18GHz N Male to N Male

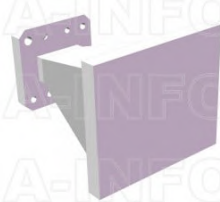


NM-NM-A100-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male

### Similar Products



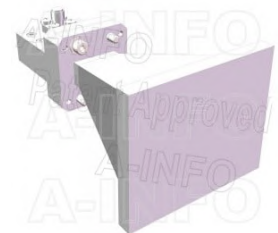
LB-75180-10-A Multi Octave Horn Antenna 7.5-18GHz 10dB Gain Double Ridge Waveguide Interface



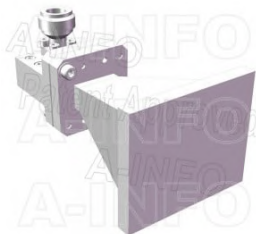
LB-75180-10-ASPO Multi Octave Horn Antenna 7.5-18GHz 10dB Gain Double Ridge Waveguide Interface



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



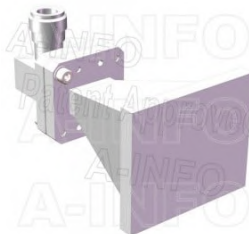
LB-75180-10-C-SFSP0 Multi Octave Horn Antenna 7.5-18GHz 10dB Gain SMA Female



LB-75180-10-C-NFSP0 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-HNFSP0 Multi Octave Horn Antenna 7.5-18GHz 10dB Gain High Power N Type Female

## About this Datasheet

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