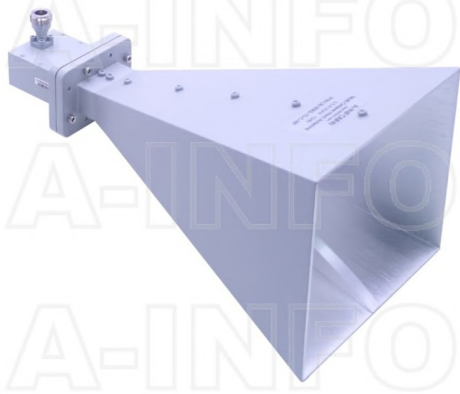


LB-3582-15-C-NF Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain N Type Female



Multi Octave Horn Antenna Operating From 3.5GHz to 8.2GHz With a Nominal 15dB Gain With N Type Female Connector

Product Information

SKU	LB-3582-15-C-NF
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Description

Multi octave horn antenna LB-3582-15-C-NF, operating from 3.5 to 8.2GHz with a nominal 15dB gain and low VSWR 1.5:1 with N Type Female output connector. The model LB-3582-15-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

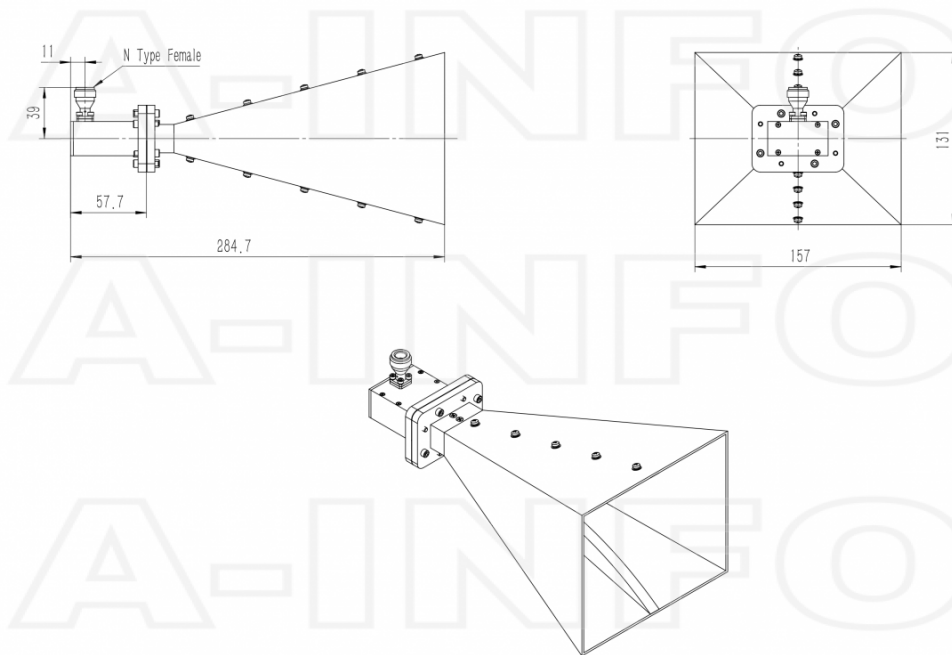
Electrical Specification		Interface	
Frequency, Min (GHz)	3.5	Output Type	Coaxial
Frequency, Max (GHz)	8.2	Connector	N Type
Waveguide Type	Double Ridge	Connector Gender	Female
Waveguide Size EIA WRD	WRD350	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	19	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	33	Size, W (mm)	157
3dB Beamwidth, H-Plane, Min (Deg.)	19	Size, H (mm)	131
3dB Beamwidth, H-Plane, Max (Deg.)	37	Size, L (mm)	284.7
Cross Pol. Isolation, Typ (dB)	25	Weight, (kg)	0.55
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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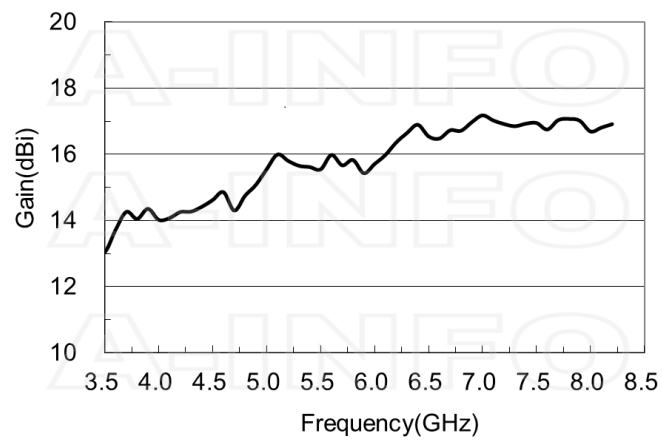
Outline Drawing

N-Female Output (P/N: LB-3582-15-C-NF)

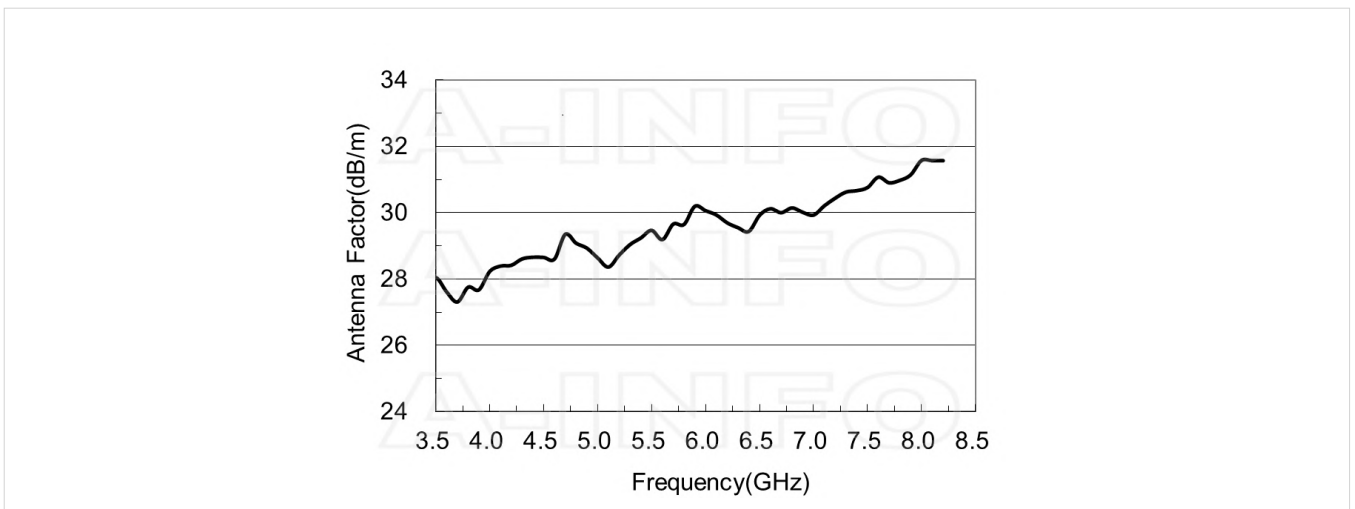


Typical Test Results

Gain



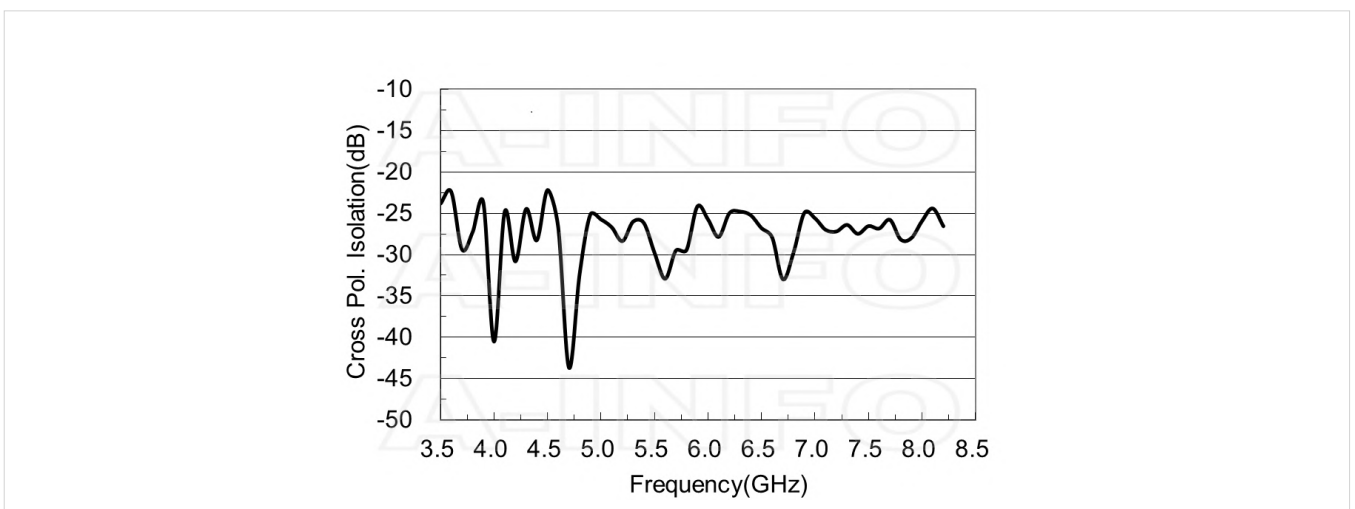
Antenna Factor



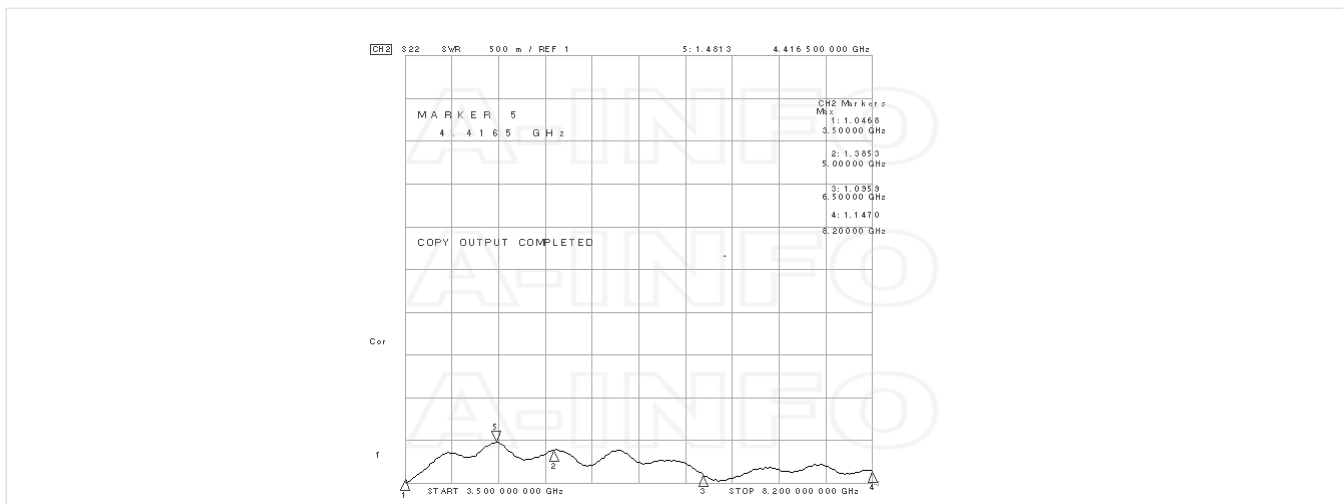
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
3.5	13.05	28.04
4.0	14.02	28.23
4.5	14.62	28.65
5.0	15.55	28.64
5.5	15.55	29.47
6.0	15.71	30.06
6.5	16.54	29.93
7.0	17.18	29.93
7.5	16.95	30.76
8.0	16.69	31.58
8.2	16.92	31.57

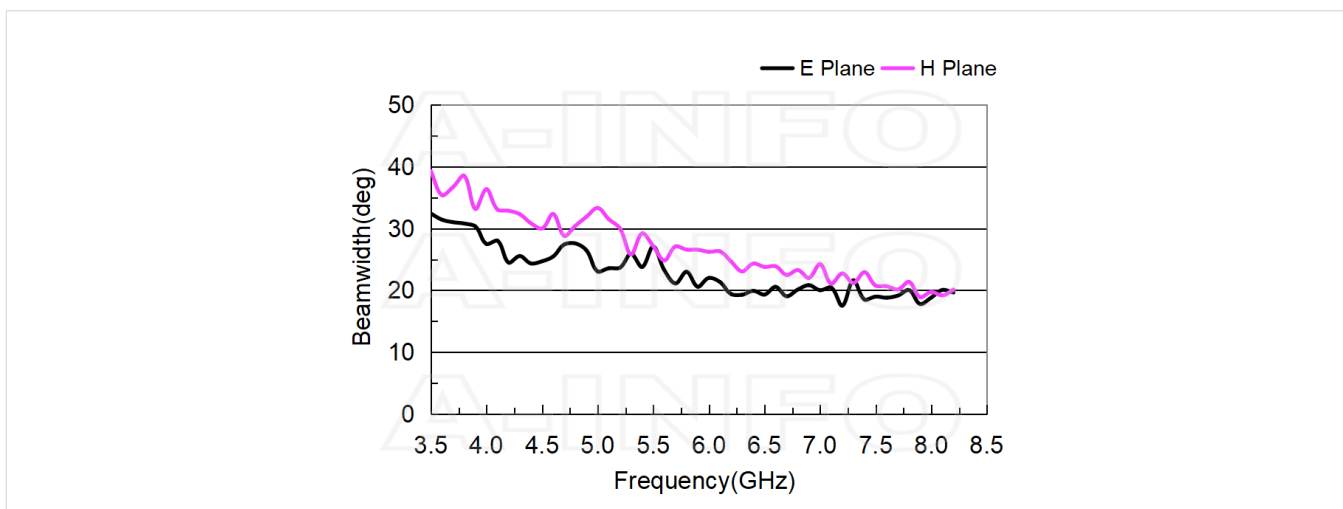
Cross Polarization Isolation



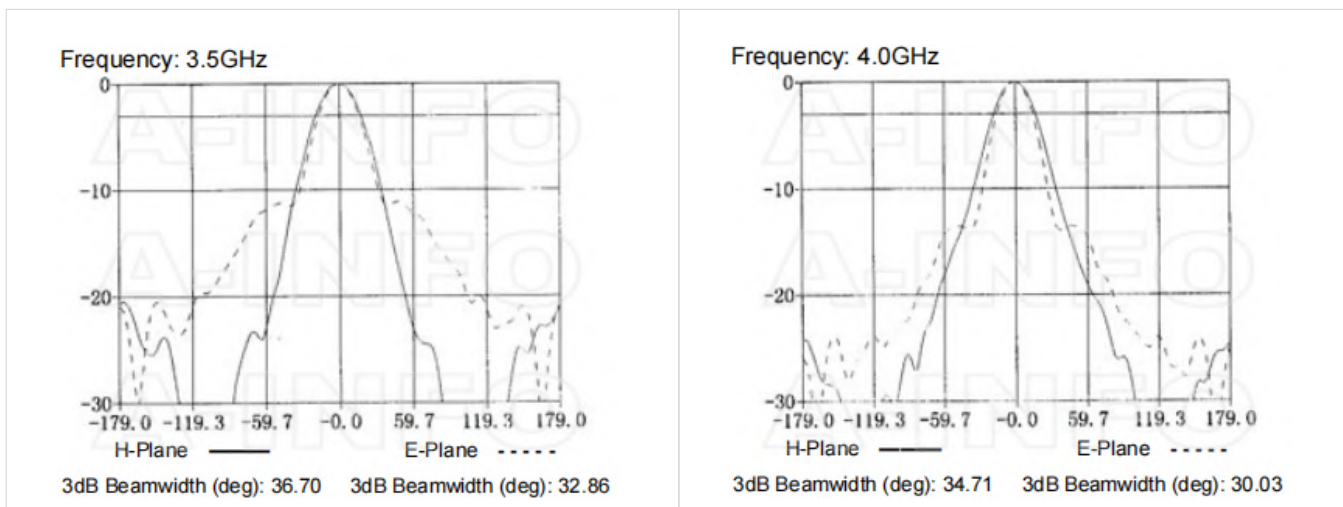
VSWR



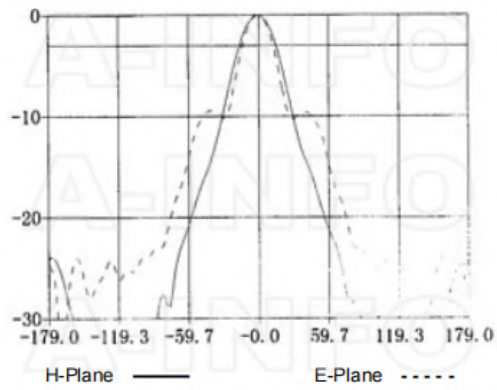
Beamwidth



Pattern

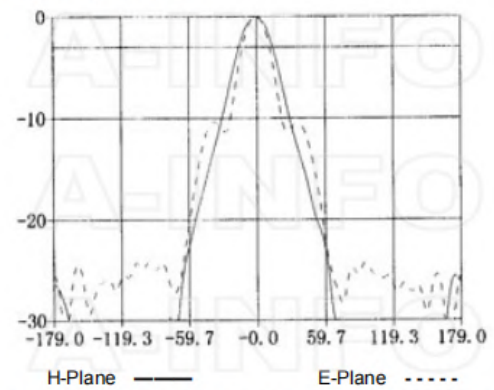


Frequency: 4.5GHz



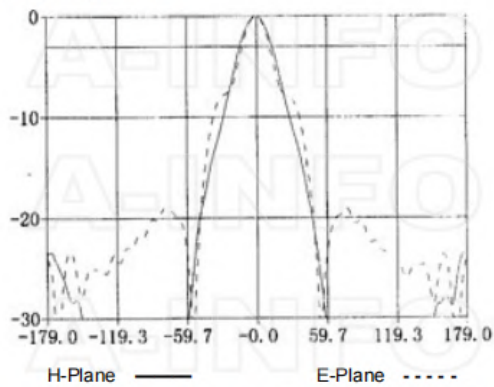
3dB Beamwidth (deg): 30.91 3dB Beamwidth (deg): 26.19

Frequency: 5.0GHz



3dB Beamwidth (deg): 29.55 3dB Beamwidth (deg): 23.88

Frequency: 5.5GHz



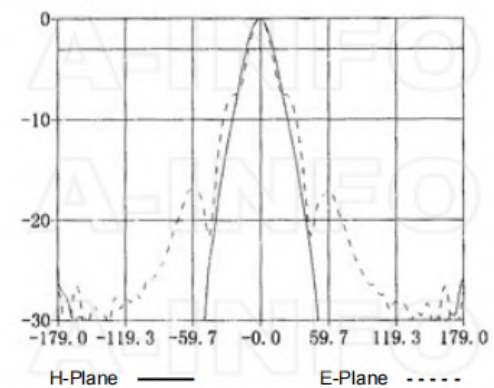
3dB Beamwidth (deg): 27.58 3dB Beamwidth (deg): 23.64

Frequency: 6.0GHz



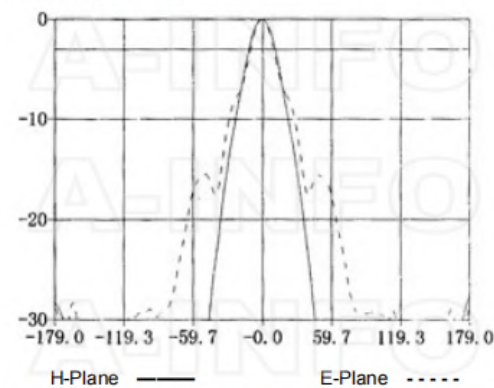
3dB Beamwidth (deg): 25.82 3dB Beamwidth (deg): 22.66

Frequency: 6.5GHz

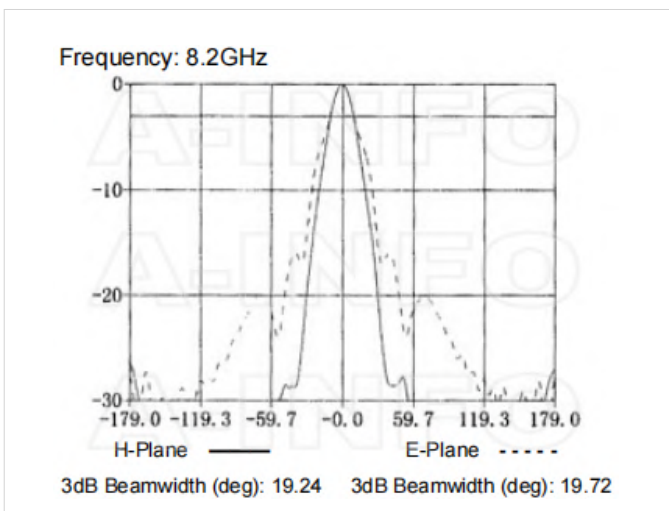
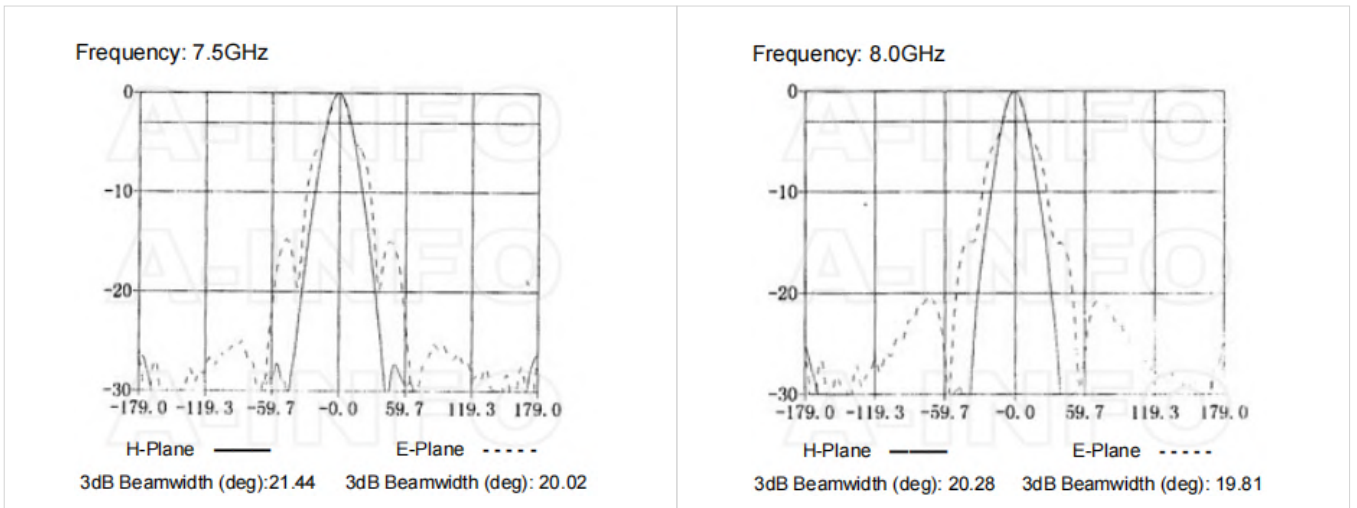


3dB Beamwidth (deg): 23.80 3dB Beamwidth (deg): 19.93

Frequency: 7.0GHz



3dB Beamwidth (deg): 22.52 3dB Beamwidth (deg): 19.76



Related Products



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

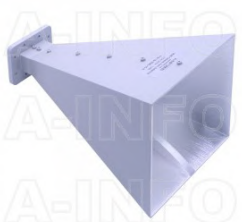


NM-NM-A100-10000 Flexible Cable Assembly 10000mm DC-18GHz N Male to N Male

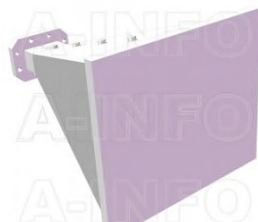


NM-NM-A100-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male

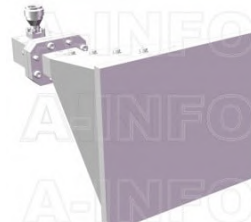
Similar Products



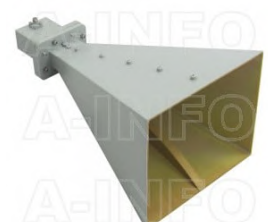
LB-3582-15-A Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain Double Ridge Waveguide Interface



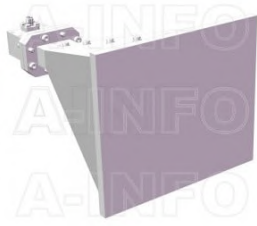
LB-3582-15-ASPO Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain Double Ridge Waveguide Interface



LB-3582-15-C-NFSP Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain N Type Female



LB-3582-15-C-SF Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain SMA Female



LB-3582-15-C-SFSP0 Multi
Octave Horn Antenna 3.5-8.2GHz
15dB Gain SMA Female

About this Datasheet

<ul style="list-style-type: none"> ● Product Information <p>Product Link: https://www.ainfoinc.com/lb-3582-15-c-nf-multi-octave-horn-antenna-3-5-8-2-ghz-15db-gain-n-type-female Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved</p>	<ul style="list-style-type: none"> ● Contact Us <p>Address: 60 Tesla, Irvine, CA 92618, USA</p> <p>Website: www.ainfoinc.com</p> <p>Email: sales@ainfoinc.com</p>	<ul style="list-style-type: none"> ● Phone & Fax <p>Phone: +1-949-639-9688 +1-949-639-9608</p> <p>Fax: +1-949-639-9670</p>
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