

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



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

### Product Information

SKU	LB-3582-15-C-ESF
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### Description

Multi octave horn antenna LB-3582-15-C-ESF, operating from 3.5 to 8.2GHz with a nominal 15dB gain and low VSWR 1.5:1 with Endlaunch SMA Female output connector. The model LB-3582-15-C-ESF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 50W 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

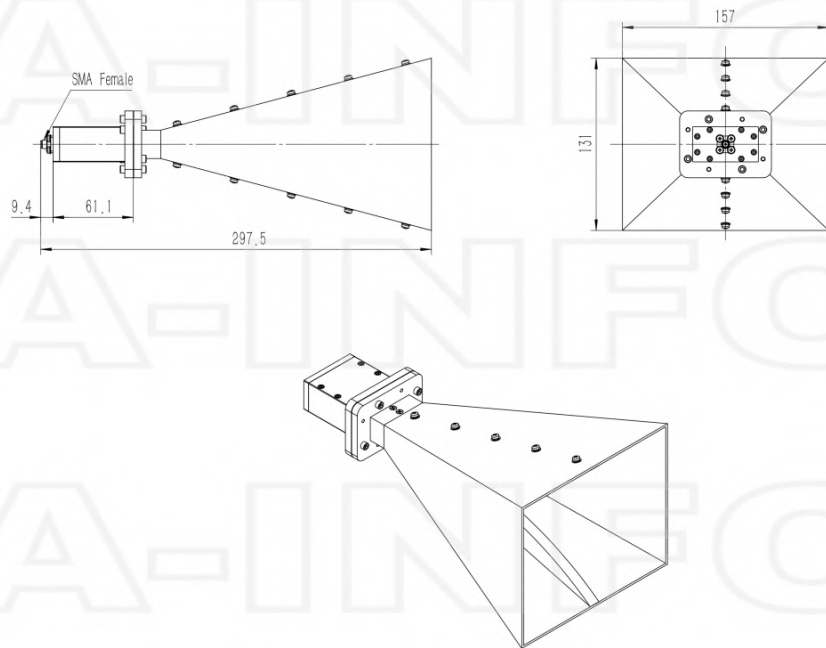
Electrical Specification		Interface	
Frequency, Min (GHz)	3.5	Output Type	Coaxial
Frequency, Max (GHz)	8.2	Connector	SMA
Waveguide Type	Double Ridge	Connector Gender	Female
Waveguide Size EIA WRD	WRD350	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	C Type
Polarization	Linear	Body Material	Al
3dB 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)	297.5
Cross Pol. Isolation, Typ (dB)	25	Weight, (kg)	0.77
VSWR, Typ	1.5:1		
Impedance, (Ohm)	50		
Power Handling, CW, (W)	50		
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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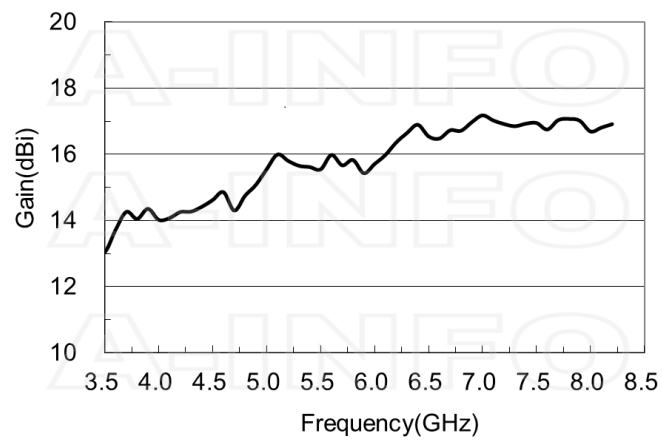
## Outline Drawing

Endlaunch SMA-Female Output (P/N: LB-3582-15-C-ESF)

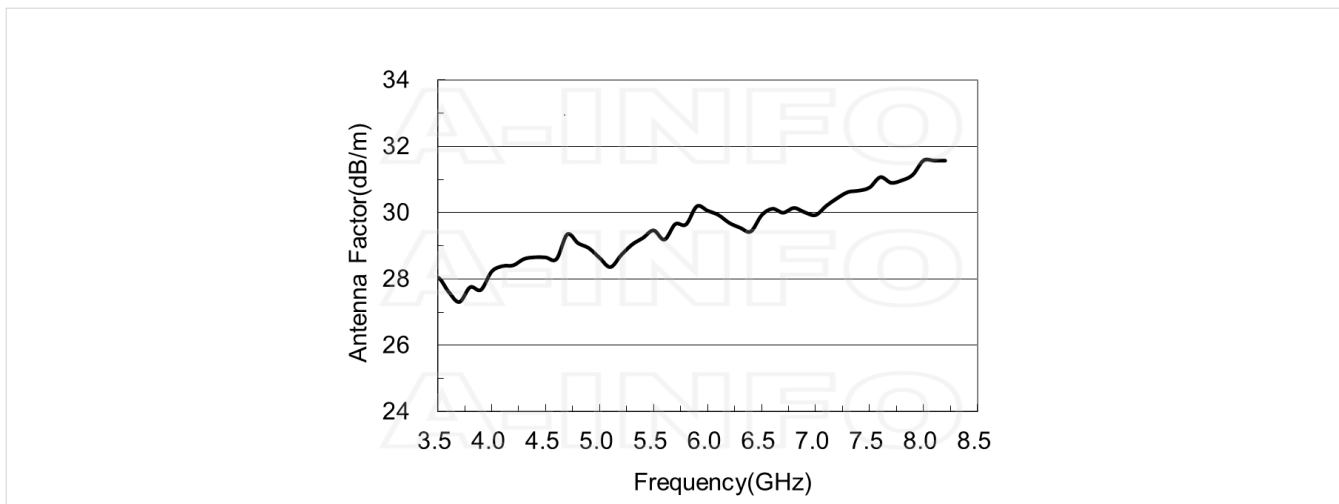


## Typical Test Results

Gain



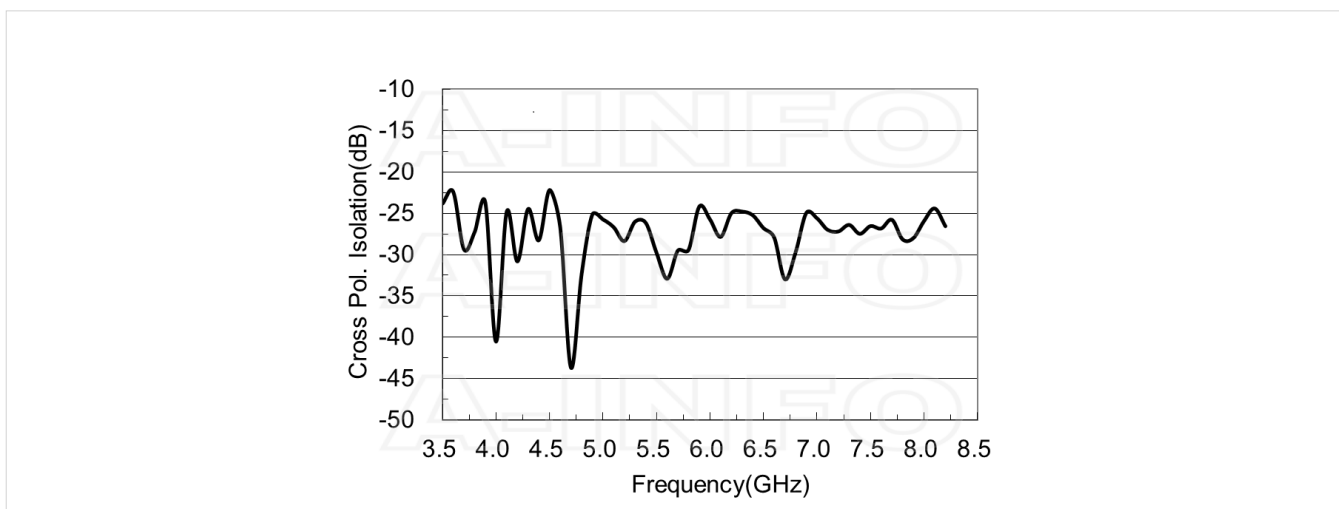
## Antenna Factor



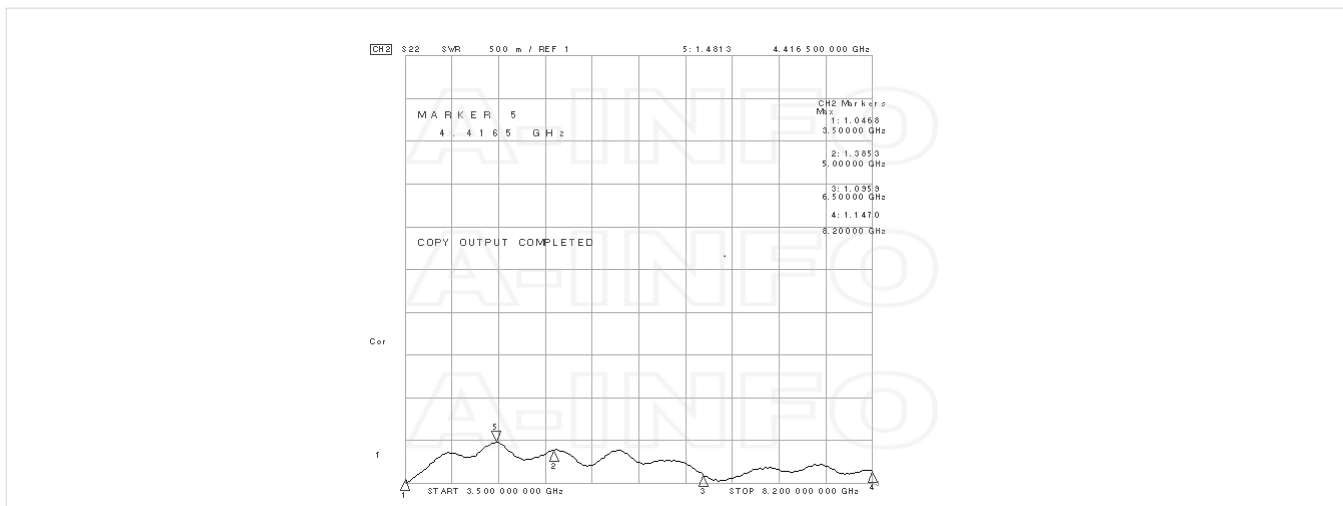
## Antenna Factor (Table)

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

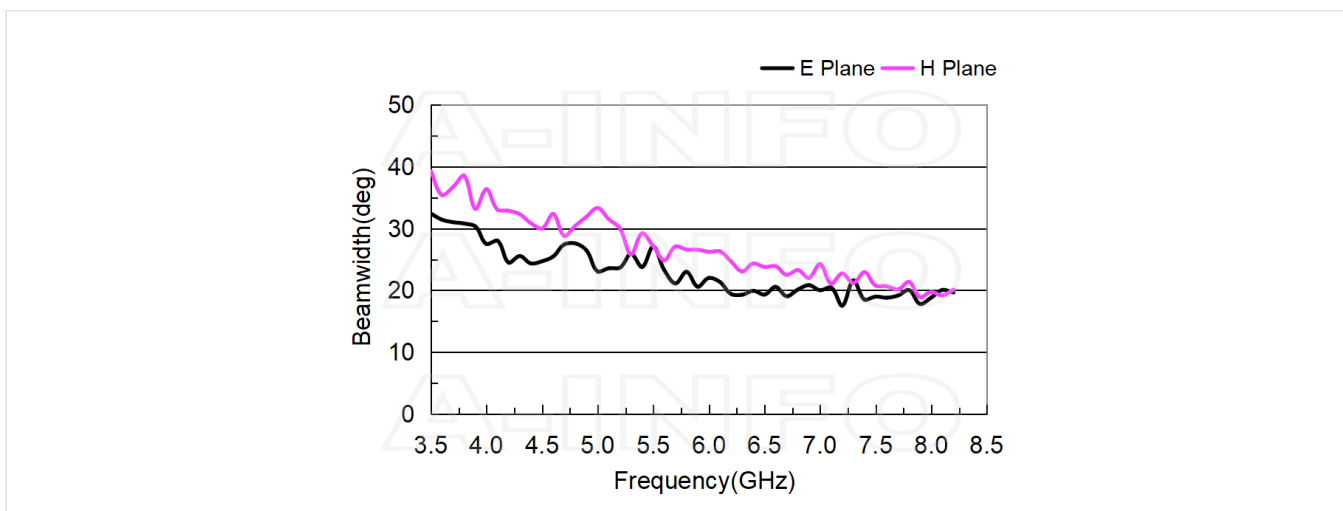
## Cross Polarization Isolation



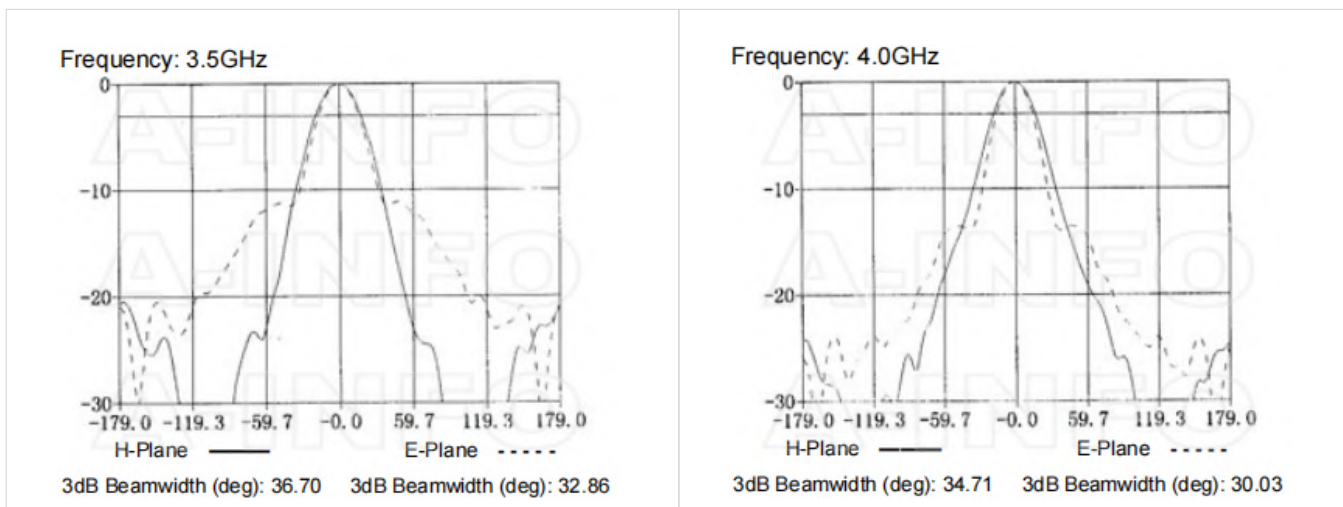
## VSWR



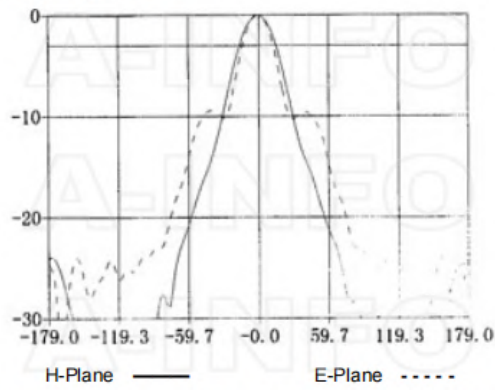
## Beamwidth



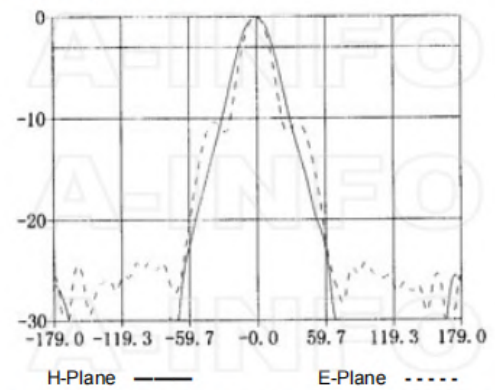
## Pattern



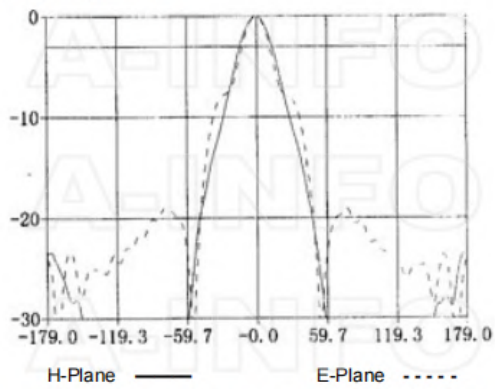
Frequency: 4.5GHz



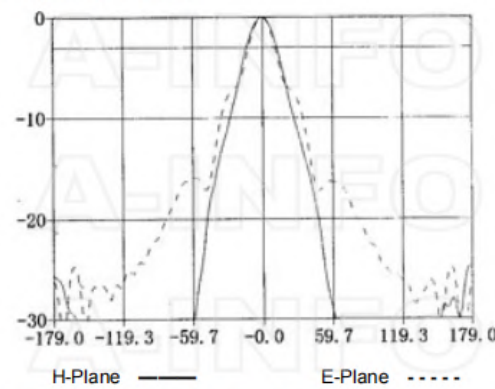
Frequency: 5.0GHz



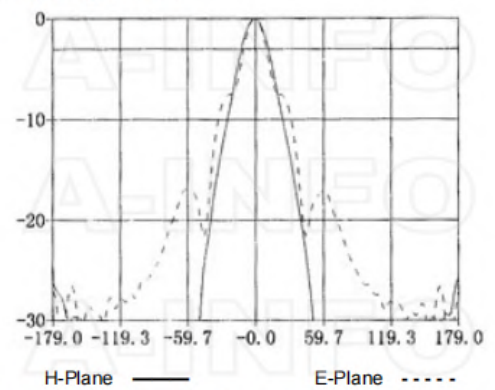
Frequency: 5.5GHz



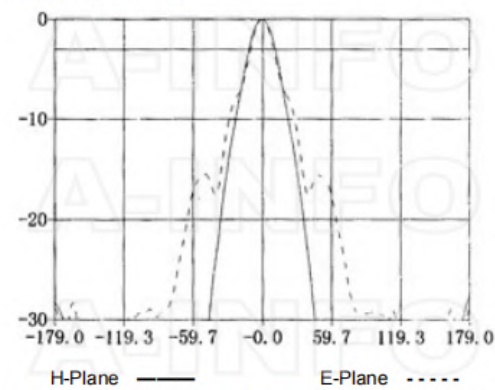
Frequency: 6.0GHz

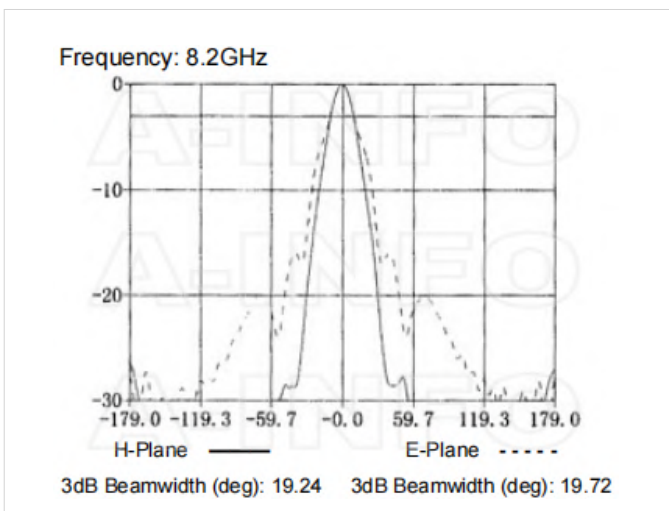
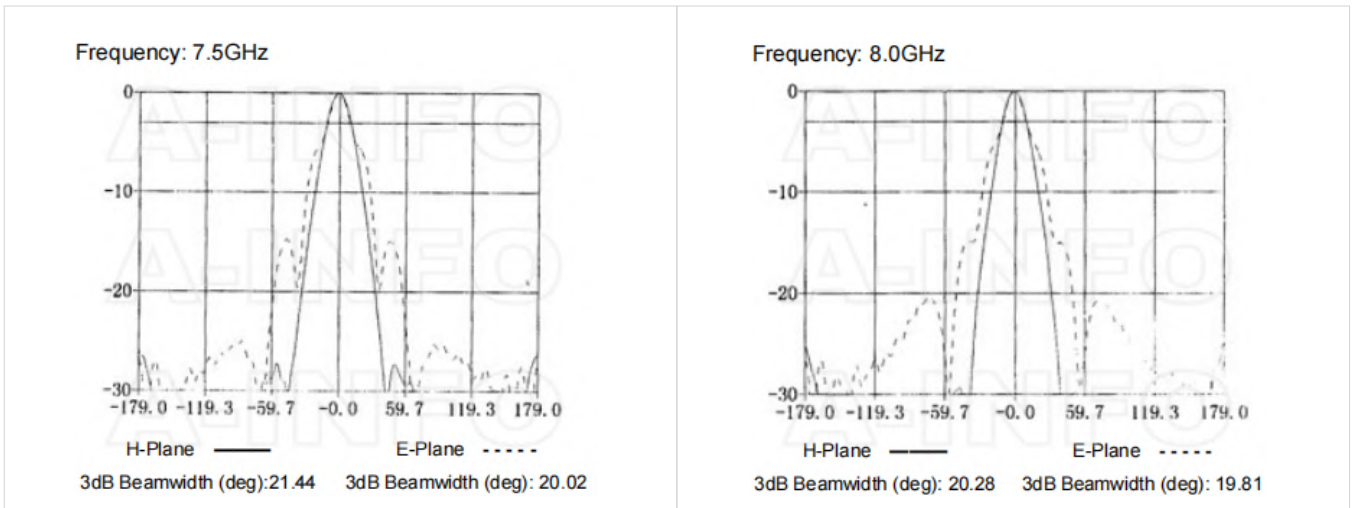


Frequency: 6.5GHz



Frequency: 7.0GHz





## Related Products



SM-SM-A050-1000 Flexible Cable Assembly 1000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-1500 Flexible Cable Assembly 1500mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-2000 Flexible Cable Assembly 2000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-3000 Flexible Cable Assembly 3000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-5000 Flexible Cable Assembly 5000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-10000 Flexible Cable Assembly 10000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-500 Flexible Cable Assembly 500mm DC- 26.5GHz SMA Male to SMA Male



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SM-SM-A080-10000 Flexible Cable Assembly 10000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-20000 Flexible Cable Assembly 20000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A100-100 Flexible Cable Assembly 100mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-200 Flexible Cable Assembly 200mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-300 Flexible Cable Assembly 300mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-500 Flexible Cable Assembly 500mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-1000 Flexible Cable Assembly 1000mm DC-18GHz SMA Male to SMA Male



SM-SM-A100-1500 Flexible Cable Assembly 1500mm DC- 18GHz SMA Male to SMA Male



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SM-SM-A100-3000 Flexible Cable Assembly 3000mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-5000 Flexible Cable Assembly 5000mm DC- 18GHz SMA Male to SMA Male

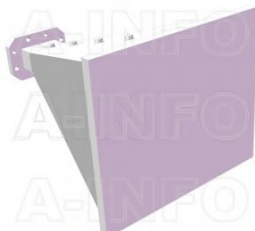


SM-SM-A100-10000 Flexible Cable Assembly 10000mm DC- 18GHz SMA Male to SMA Male

## Similar Products



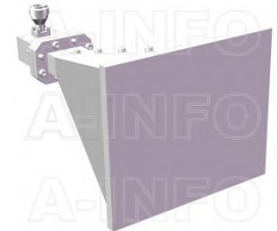
LB-3582-15-A Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain Double Ridge Waveguide Interface



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



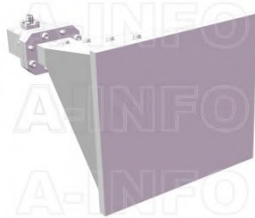
LB-3582-15-C-NF Multi Octave Horn Antenna 3.5-8.2GHz 15dB Gain N Type Female



LB-3582-15-C-NFSP0 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



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

## About this Datasheet

<p>● <b>Product Information</b>                  Product Link:  <a href="https://www.ainfoinc.com/lb-3582-15-c-esf-multi-octave-horn-antenna-3-5-8-2-ghz-15db-gain-endlaunch-sma-female">https://www.ainfoinc.com/lb-3582-15-c-esf-multi-octave-horn-antenna-3-5-8-2-ghz-15db-gain-endlaunch-sma-female</a>                  Data subject to change without notice.                  © A-INFO INC. 2024. All Rights Reserved</p>	<p>● <b>Contact Us</b>                  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></p>	<p>● <b>Phone &amp; Fax</b>                  Phone:                  +1-949-639-9688                  +1-949-639-9608                   Fax:                  +1-949-639-9670</p>
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