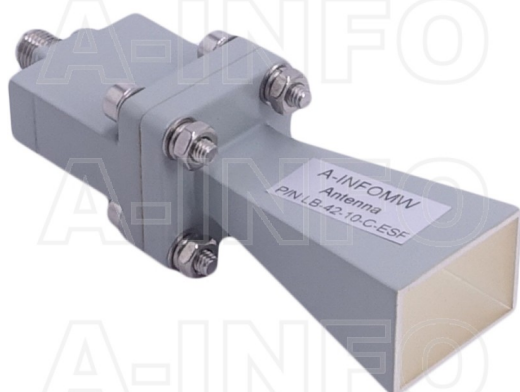




LB-42-10-C-ESF Standard Gain Horn Antenna 18-26.5GHz 10dB Gain
Endlaunch SMA Female

Standard Gain Horn Antenna Operating From 18GHz to 26.5GHz With a
Nominal 10dB Gain With Endlaunch SMA Female Connector

Product Information

SKU	LB-42-10-C-ESF
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Description

Standard Gain Horn Antenna LB-42-10-C-ESF, operating from 18 to 26.5GHz with a nominal 10dB gain and low VSWR 1.25:1 with Endlaunch SMA Female connector output. The model LB-42-10-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 standard gain horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

Technical Specification

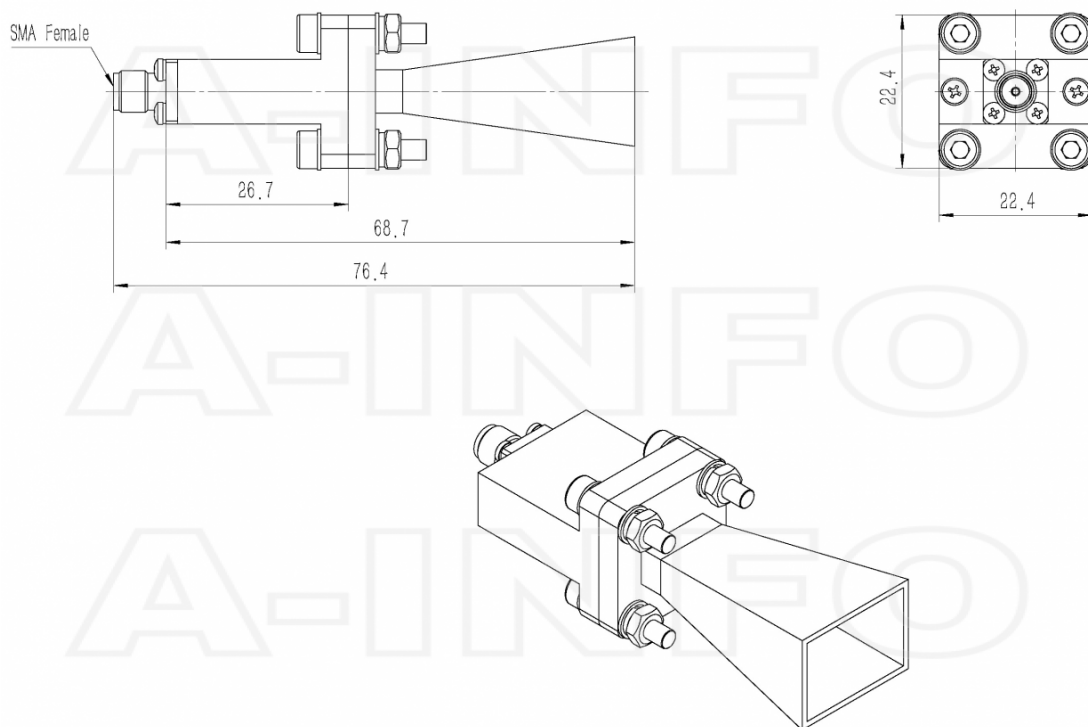
Electrical Specification		Interface	
Frequency, Min (GHz)	18	Output Type	Coaxial
Frequency, Max (GHz)	26.5	Connector	SMA
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR42	Mechanical Specification	
Gain, Typ (dBi)	10	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	46	Finish	Gold Plated and Silver Plated, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	43	Size, W (mm)	22.4
Cross Pol. Isolation, Typ (dB)	40	Size, H (mm)	27.8
VSWR, Typ	1.25:1	Size, L (mm)	77
Impedance, (Ohm)	50	Weight, (kg)	0.11
Power Handling, CW, (W)	50		
Power Handling, Peak, (W)	3000		

Additional Information

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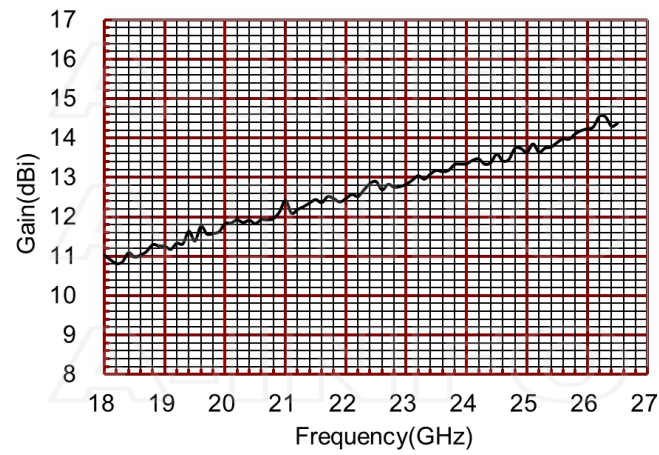
Outline Drawing

Endlaunch SMA-Female Output (P/N: LB-42-10-C-ESF)

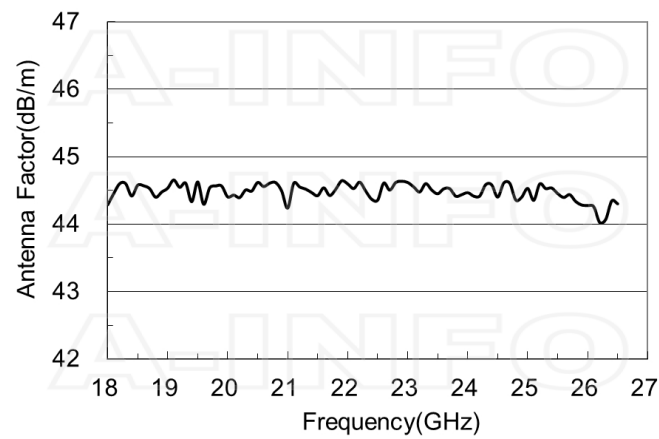


Typical Test Results

Gain



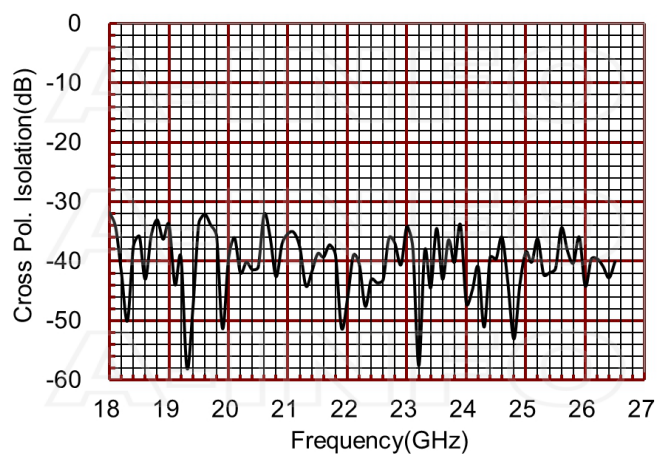
Antenna Factor



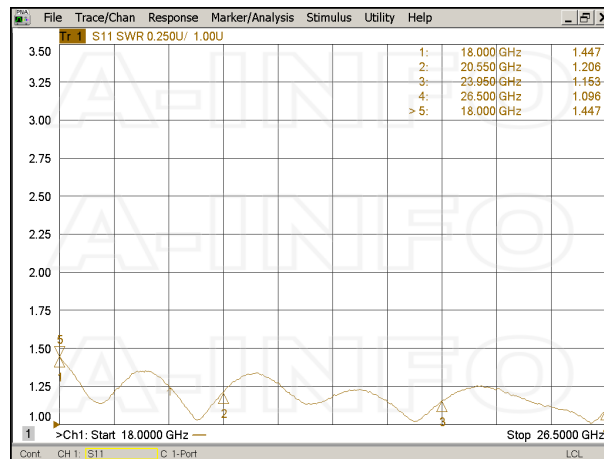
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
18.00	11.03	44.29
18.50	10.98	44.58
19.00	11.25	44.53
19.50	11.39	44.63
20.00	11.83	44.40
20.50	11.83	44.62
21.00	12.42	44.24
21.50	12.44	44.42
22.00	12.46	44.60
22.50	12.90	44.36
23.00	12.83	44.62
23.50	13.18	44.45
24.00	13.35	44.47
24.50	13.59	44.40
25.00	13.64	44.53
25.50	13.89	44.45
26.00	14.23	44.27
26.50	14.37	44.30

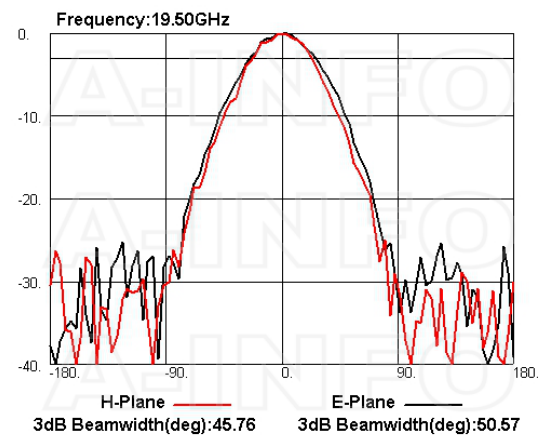
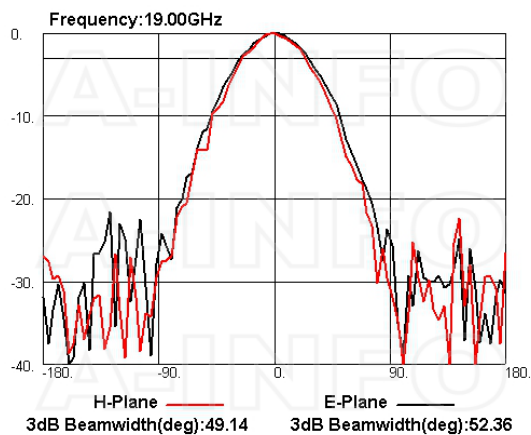
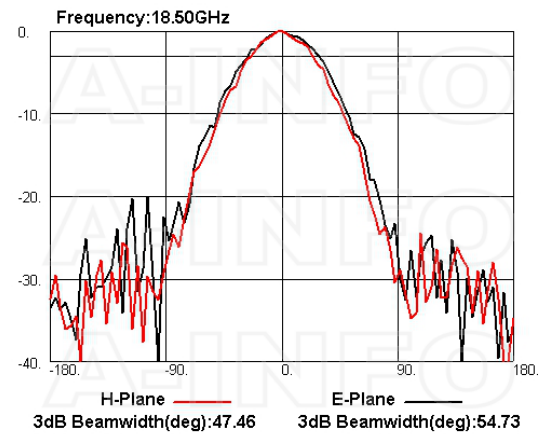
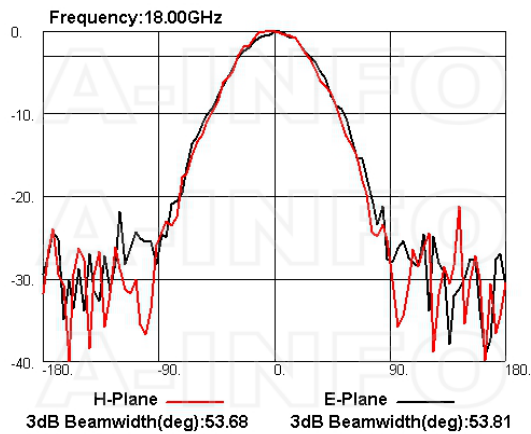
Cross Polarization Isolation

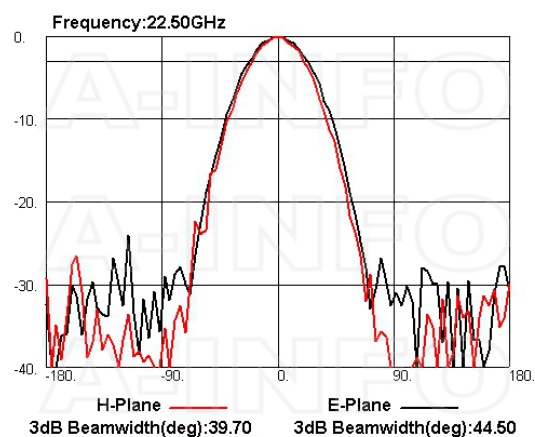
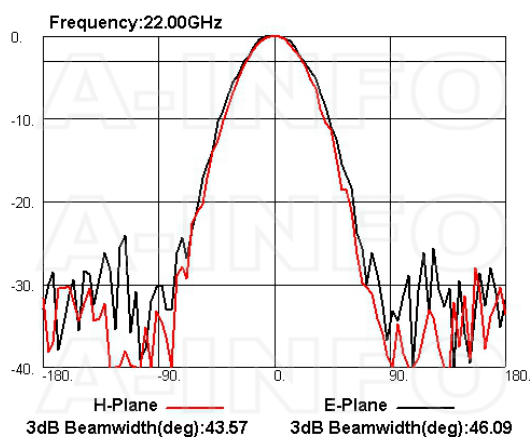
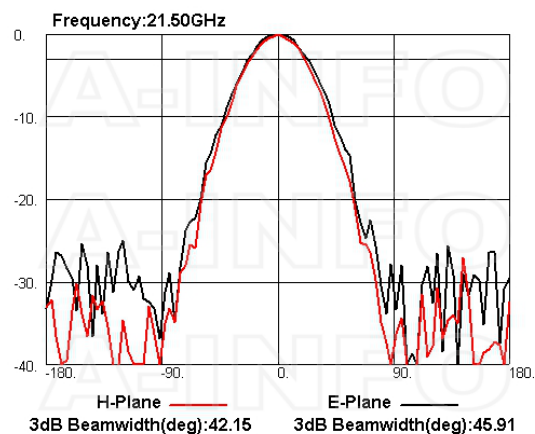
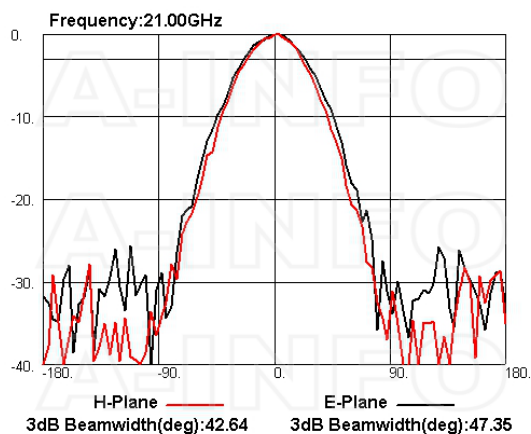
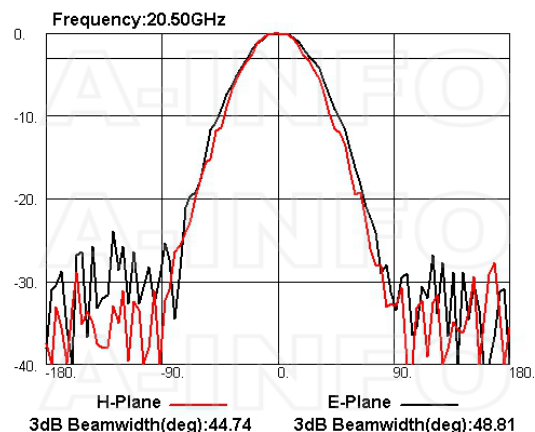
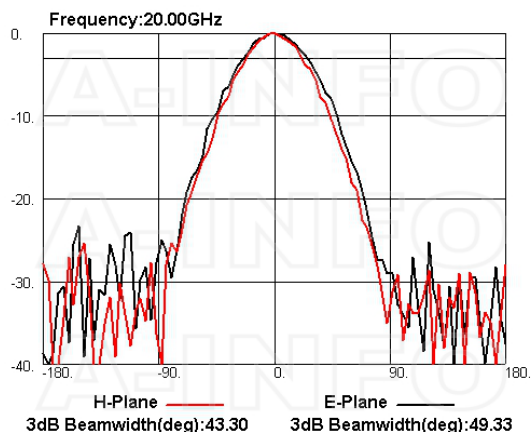


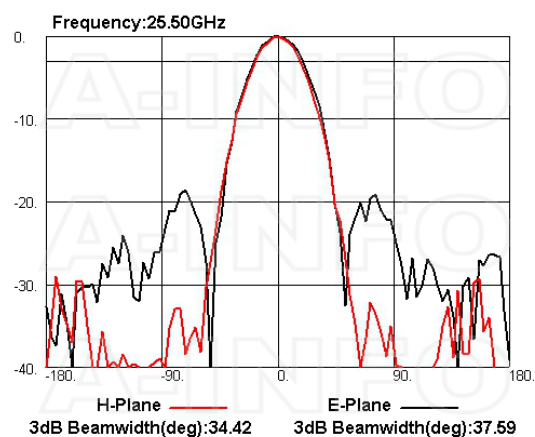
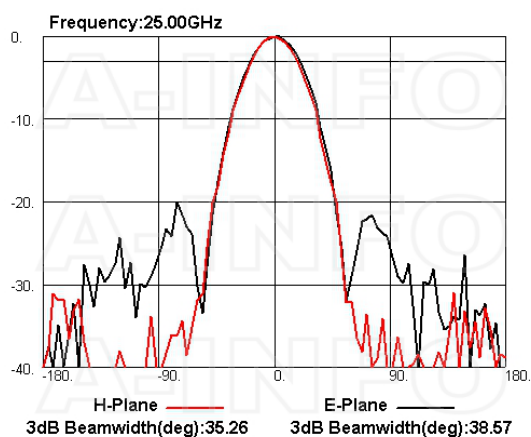
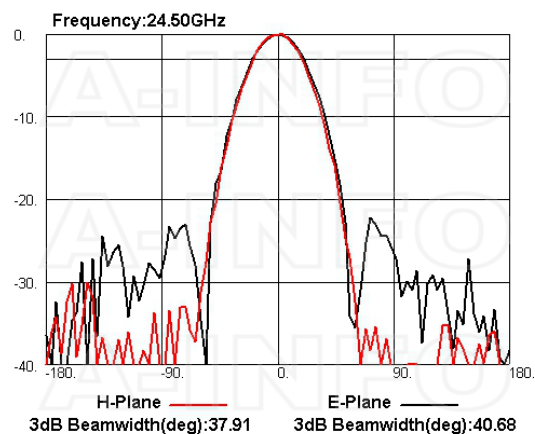
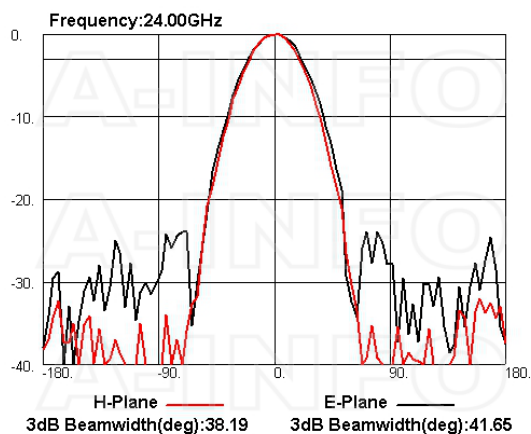
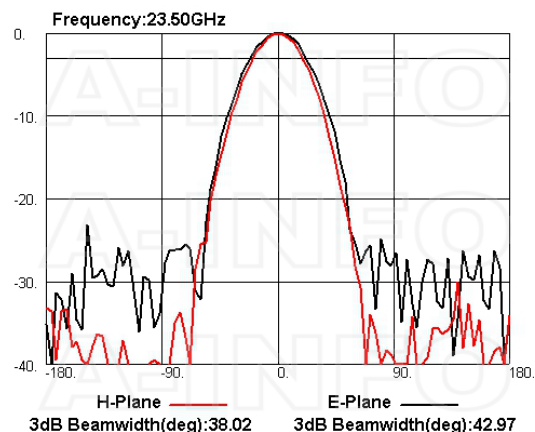
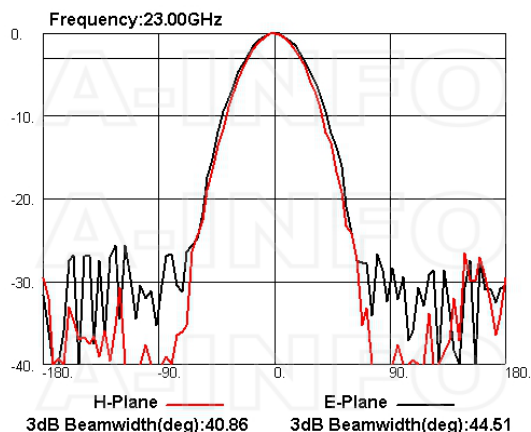
VSWR

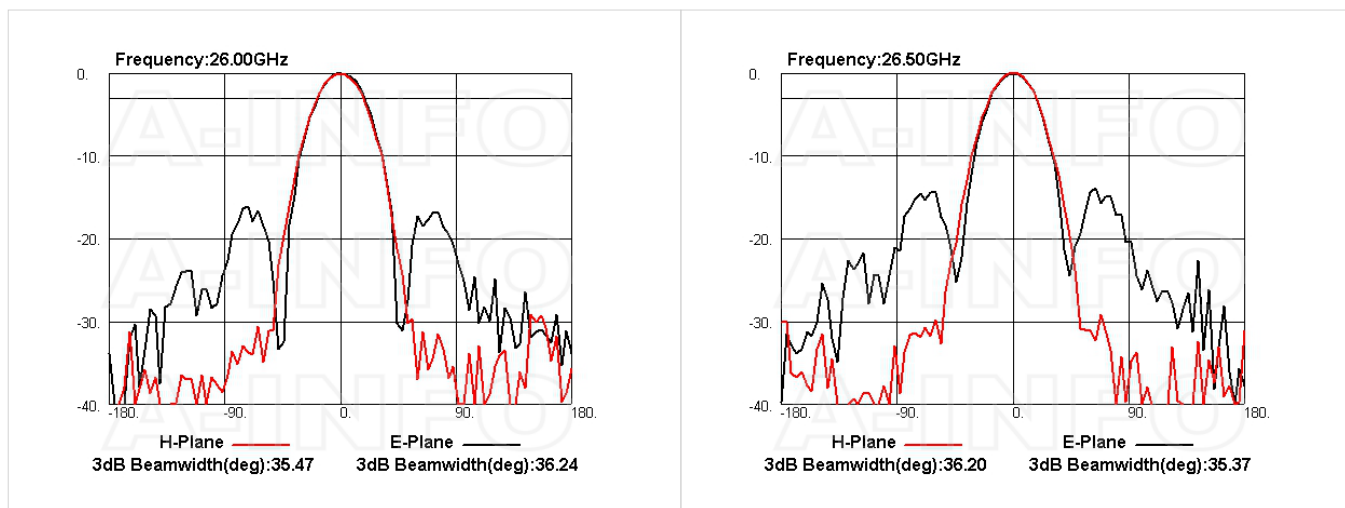


Pattern









Related Products



LB-42-10-C-MB Round Type Mounting Bracket



LB-42-10-C-MBL L Type Mounting Bracket



LB-42-10-C-MA Stinger Type Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



M3x14 Hex_Pack WR42- WR34 Flange Assembly Pack



SM-SM-A050-500 Flexible Cable Assembly 500mm DC- 26.5GHz SMA Male to SMA Male



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



SM-SM-A080-1000 Flexible Cable Assembly 1000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-1500 Flexible Cable Assembly 1500mm DC- 26.5GHz SMA Male to SMA Male



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SM-SM-A080-5000 Flexible Cable Assembly 5000mm DC- 26.5GHz SMA Male to SMA Male



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

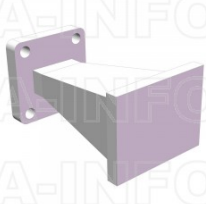


SM-SM-A080-20000 Flexible Cable Assembly 20000mm DC- 26.5GHz SMA Male to SMA Male

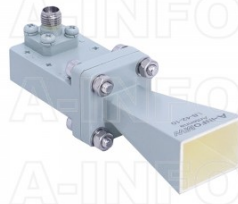
Similar Products



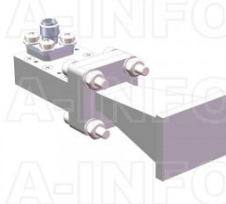
LB-42-10-A Standard Gain Horn Antenna 18-26.5GHz 10dB Gain Rectangular Waveguide Interface



LB-42-10-ASPO Standard Gain Horn Antenna 18-26.5GHz 10dB Gain Rectangular Waveguide Interface



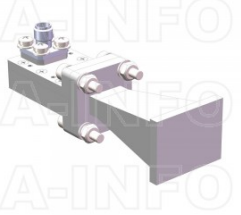
LB-42-10-C-SF Standard Gain Horn Antenna 18-26.5GHz 10dB Gain SMA Female



LB-42-10-C-SFSPO Standard Gain Horn Antenna 18-26.5GHz 10dB Gain SMA Female



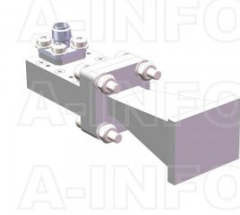
LB-42-10-C-KF Standard Gain
Horn Antenna 18-26.5GHz 10dB
Gain 2.92mm Female



LB-42-10-C-KFSPO Standard Gain
Horn Antenna 18-26.5GHz 10dB
Gain 2.92mm Female



LB-42-10-C-3.5F Standard Gain
Horn Antenna 18-26.5GHz 10dB
Gain 3.5mm Female



LB-42-10-C-3.5FSPO Standard
Gain Horn Antenna 18-26.5GHz
10dB Gain 3.5mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-42-10-c-esf-standard-gain-horn-antenna-18-26-5-ghz-10db-gain-endlaunch-sma-female Data subject to change without notice. © A-INFO INC. 2023. All Rights Reserved	● Contact Us Address:dd 60 Tesla, Irvine, CA 92618, USA Website: www.ainfoinc.com Email: sales@ainfoinc.com	● Phone & Fax Phone: +1-949-639-9688 +1-949-639-9608 Fax: +1-949-639-9670
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