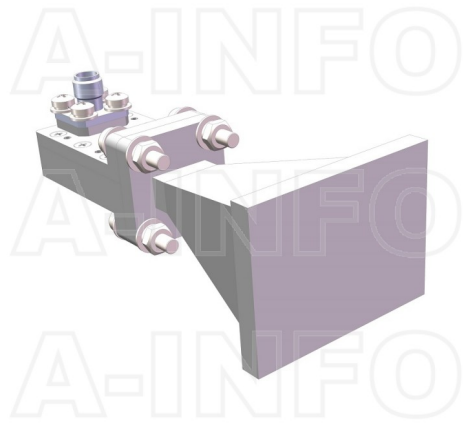


LB-42-15-C-SFSP0 Standard Gain Horn Antenna 18-26.5GHz 15dB Gain SMA Female



Standard Gain Horn Antenna Operating From 18GHz to 26.5GHz With a Nominal 15dB Gain With SMA Female Connector

Product Information

SKU	LB-42-15-C-SFSP0
-----	------------------

Description

Standard Gain Horn Antenna LB-42-15-C-SFSP0, operating from 18 to 26.5GHz with a nominal 15dB gain and low VSWR 1.25:1 with SMA Female connector output. The model LB-42-15-C-SFSP0 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 horn comes with a specially designed weatherproof radome which provides excellent protection against the rain and dust but has very little loss across the full operating frequency band. 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

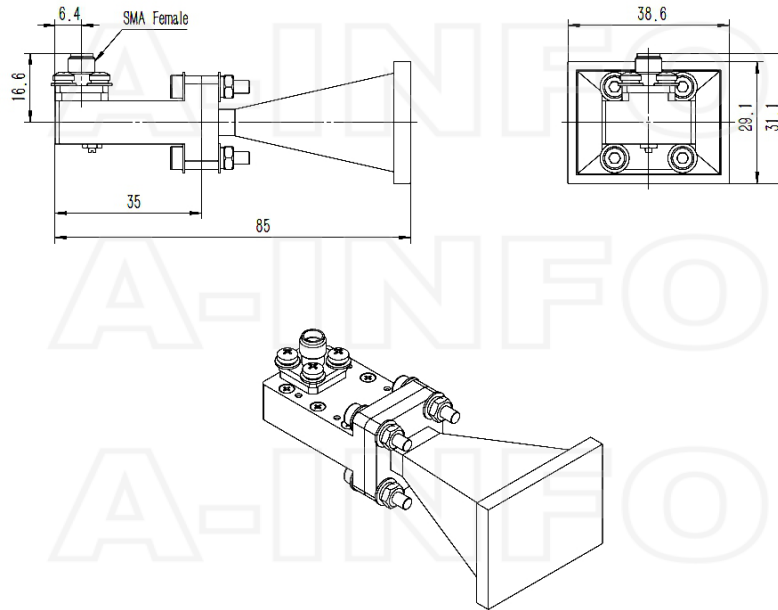
Electrical Specification		Interface	
Frequency, Min (GHz)	18	Output Type	Coaxial
Frequency, Max (GHz)	26.5	Connector	SMA
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR42	Mechanical Specification	
Gain, Typ (dBi)	15	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	29	Finish	Gold Plated and Passivation, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	28	Size, W (mm)	38.6
Cross Pol. Isolation, Typ (dB)	40	Size, H (mm)	31.1
VSWR, Typ	1.25:1	Size, L (mm)	85
Impedance, (Ohm)	50	Weight, (kg)	0.12
Power Handling, CW, (W)	50		
Power Handling, Peak, (W)	3000		

Additional Information

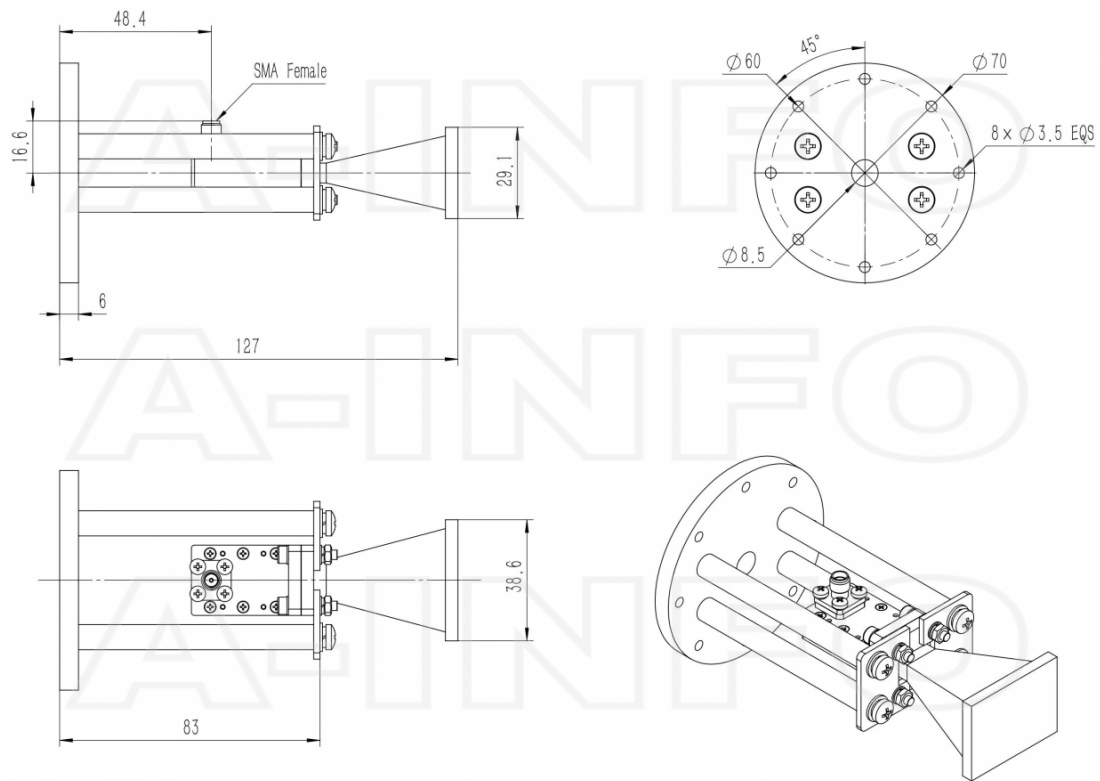
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
-------------	--	--------------	---

Outline Drawing

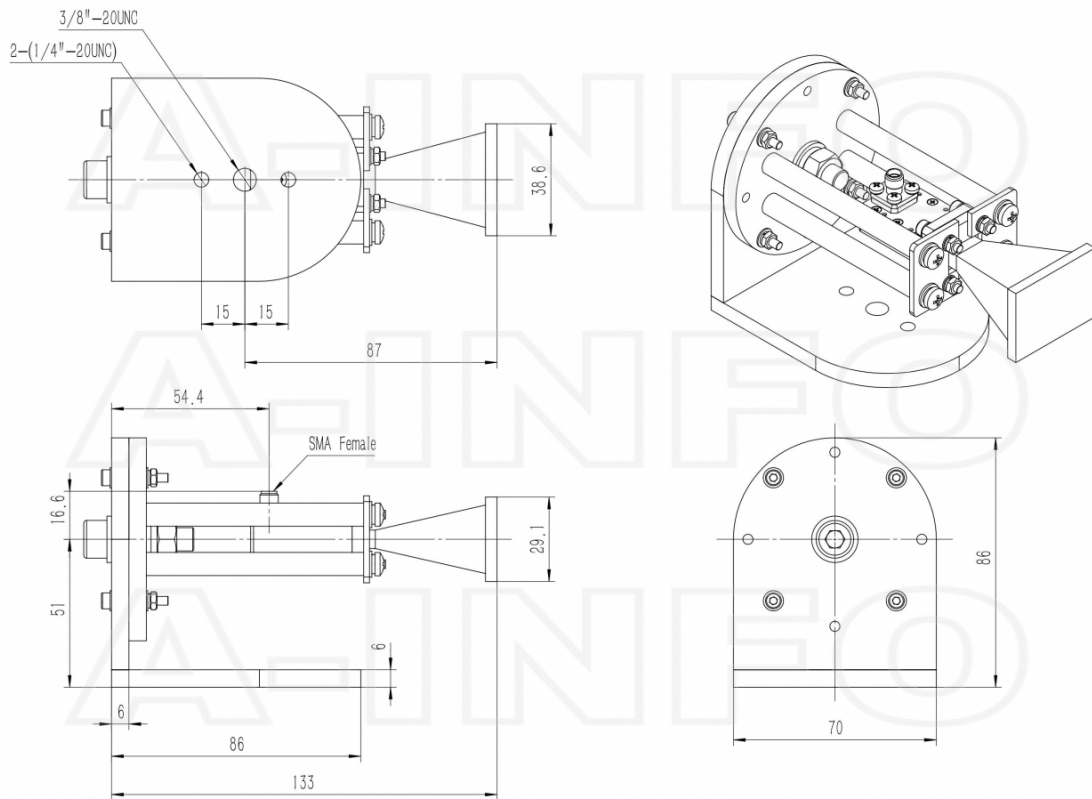
SMA-Female Output with Radome (Option, P/N: LB-42-15-C-SFSP0, Outdoor Application)



SMA-Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-42-10-C-MB & LB-42-15-C-SFSP0, Outdoor Application)

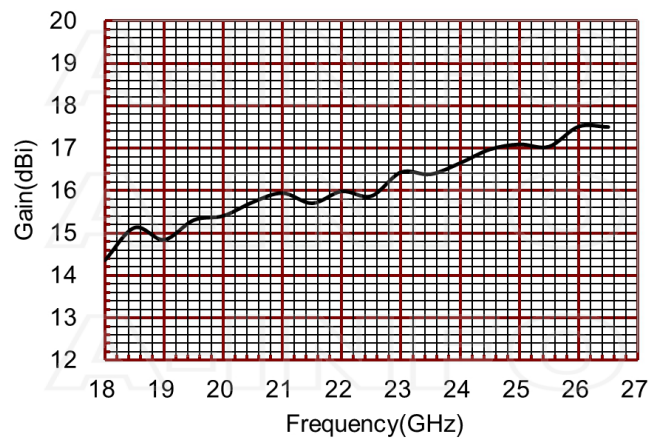


SMA-Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-42-10-C-MBL & LB-42-15-C-SFSP0, Outdoor Application)

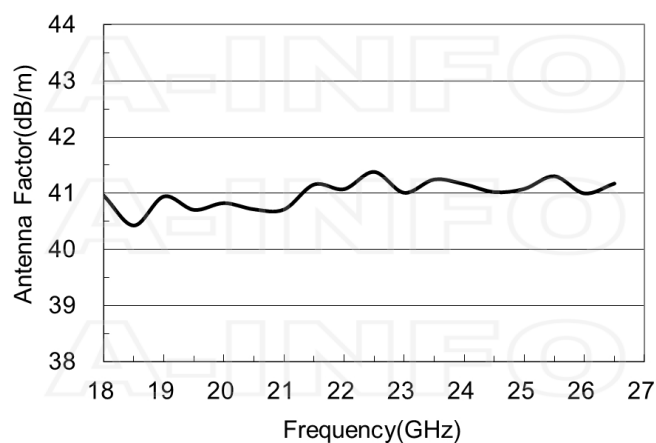


Typical Test Results

Gain



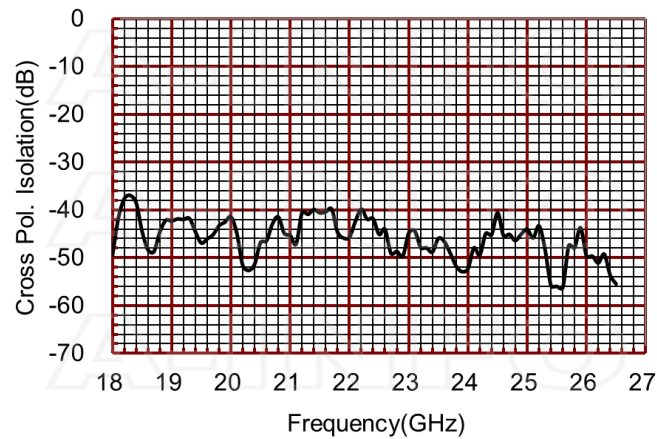
Antenna Factor



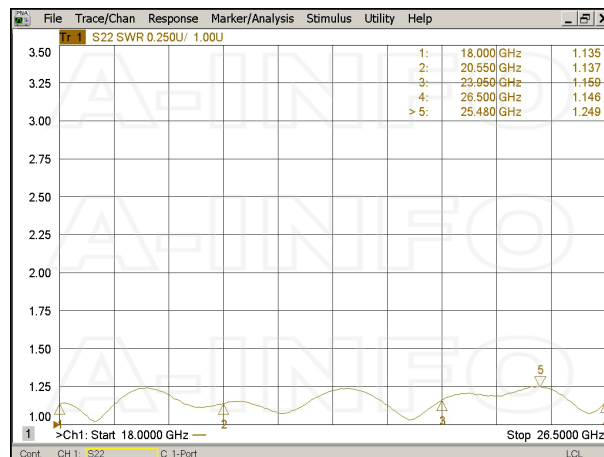
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
18.00	14.36	40.96
18.50	15.13	40.43
19.00	14.84	40.94
19.50	15.31	40.70
20.00	15.40	40.83
20.50	15.73	40.72
21.00	15.94	40.71
21.50	15.70	41.16
22.00	15.98	41.07
22.50	15.87	41.38
23.00	16.44	41.01
23.50	16.39	41.25
24.00	16.65	41.16
24.50	16.97	41.02
25.00	17.09	41.08
25.50	17.04	41.30
26.00	17.51	41.00
26.50	17.50	41.17

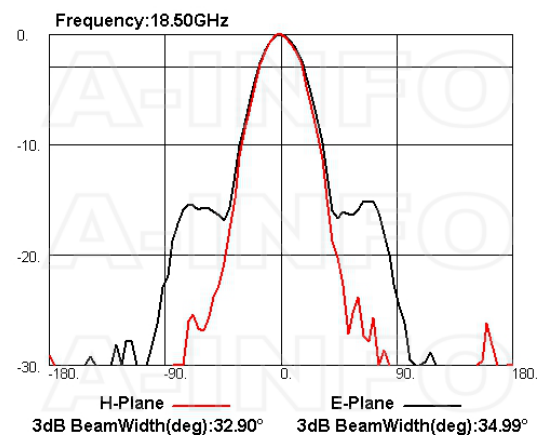
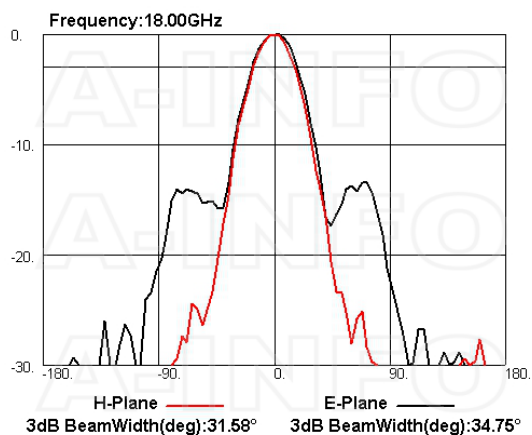
Cross Polarization Isolation

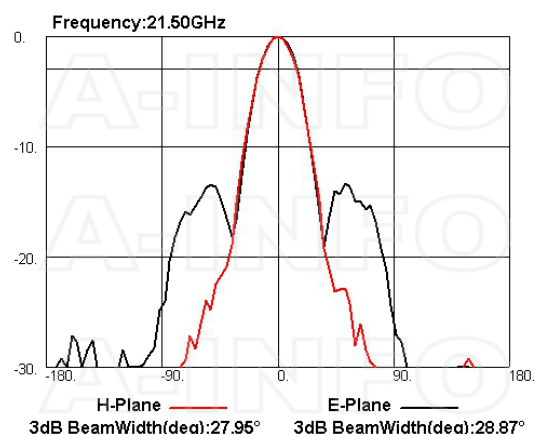
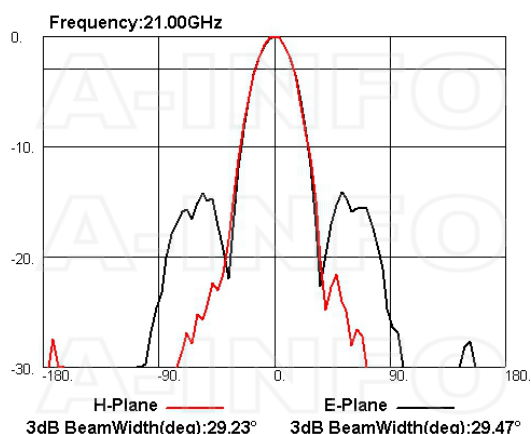
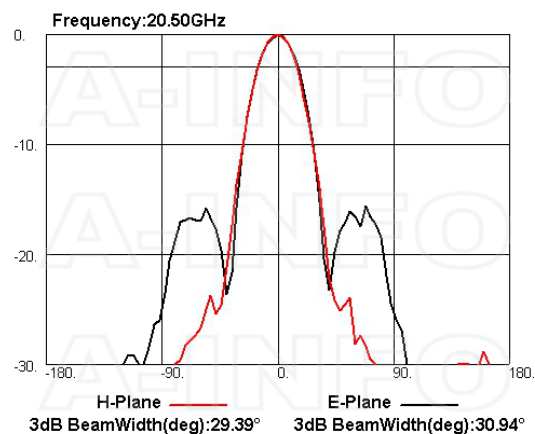
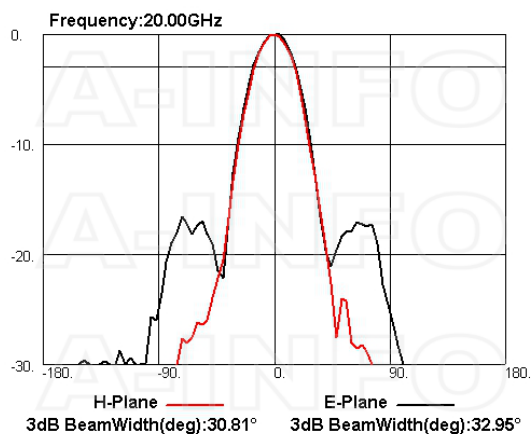
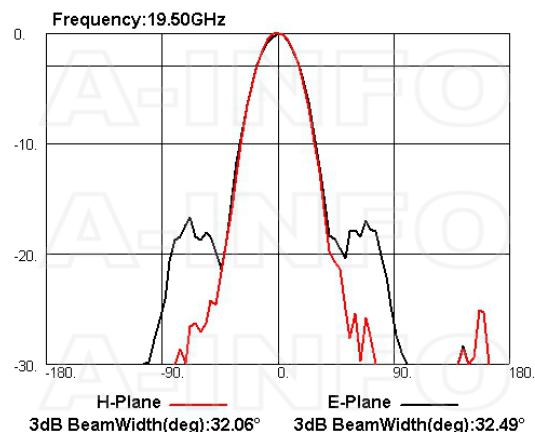
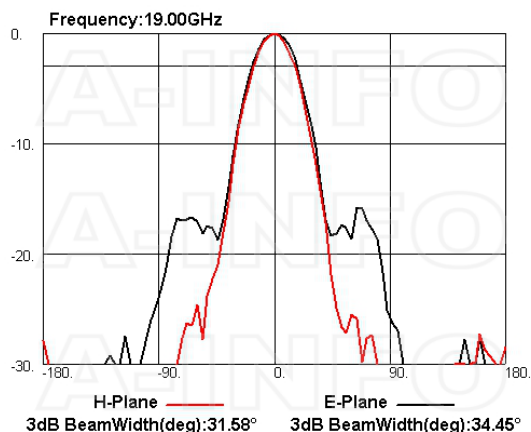


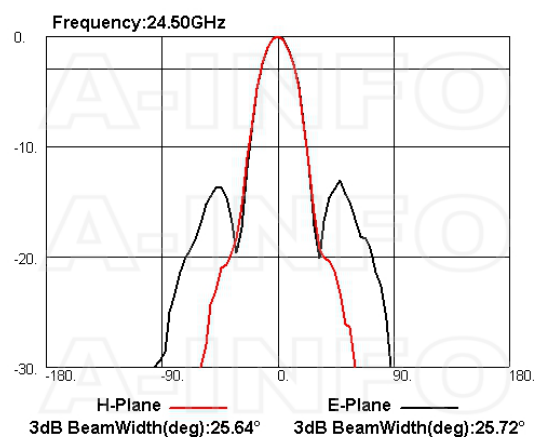
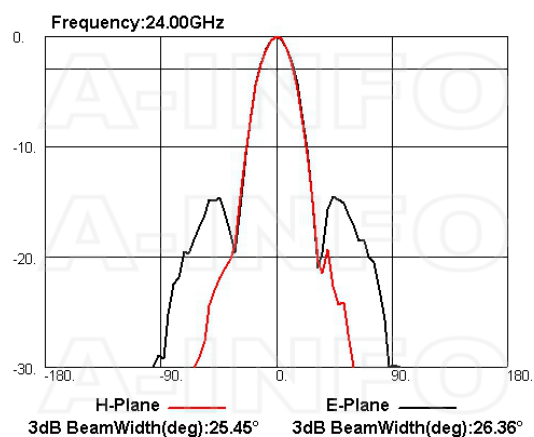
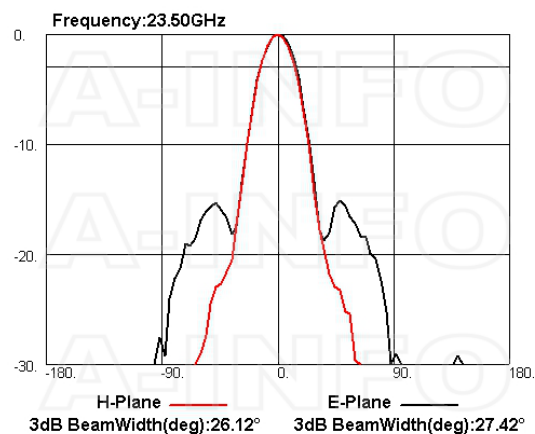
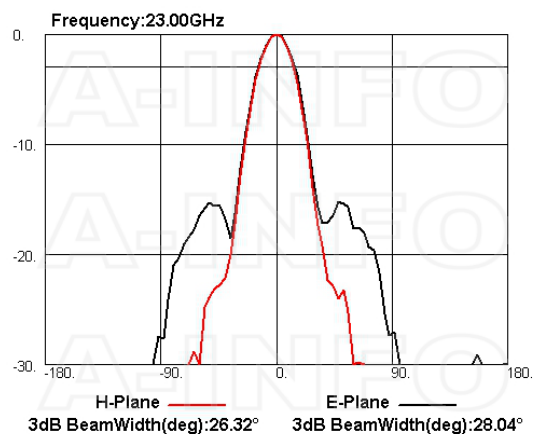
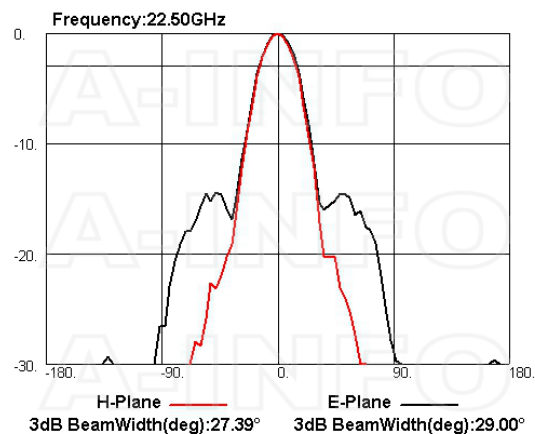
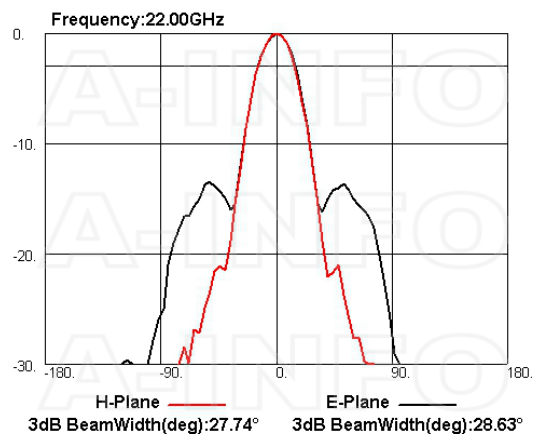
VSWR

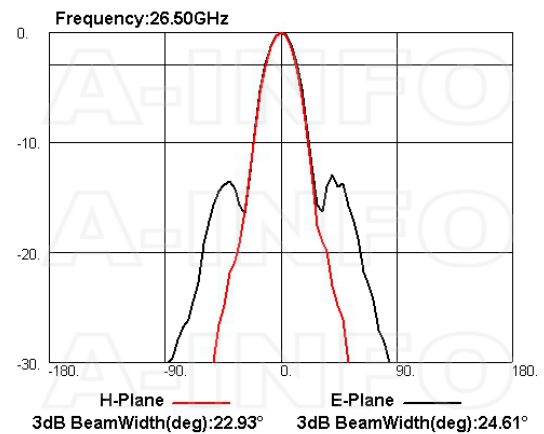
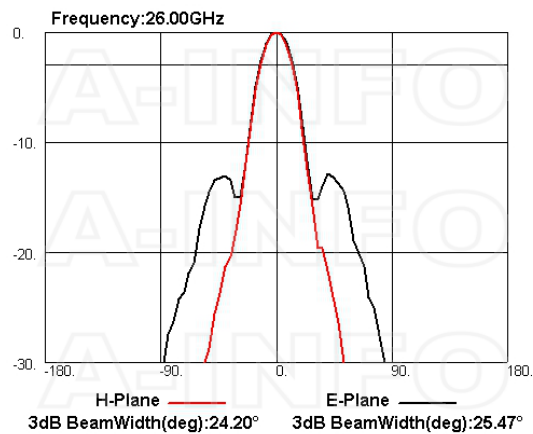
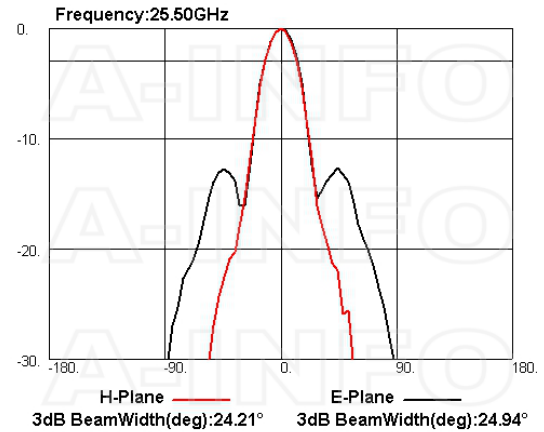
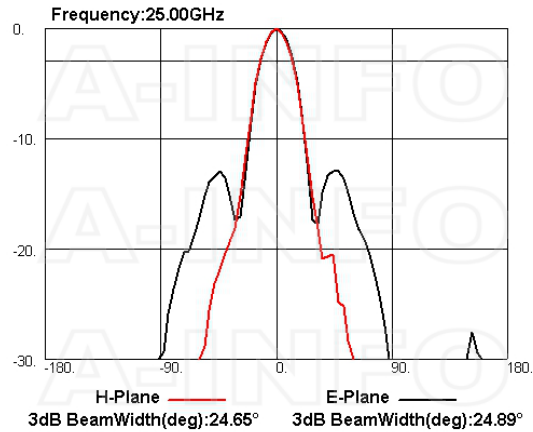


Pattern









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



Carrying Case_LB-42-15-C Al
Alloy Carrying Case



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



SM-SM-A080-2000 Flexible Cable
Assembly 2000mm DC- 26.5GHz
SMA Male to SMA Male



SM-SM-A080-3000 Flexible Cable
Assembly 3000mm DC- 26.5GHz
SMA Male to SMA Male



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

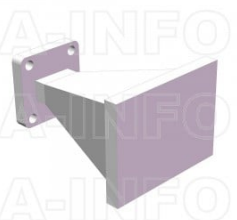


SM-SM-A080-20000 Flexible Cable Assembly 20000mm DC- 26.5GHz SMA Male to SMA Male

Similar Products



LB-42-15-A Standard Gain Horn Antenna 18-26.5GHz 15dB Gain Rectangular Waveguide Interface



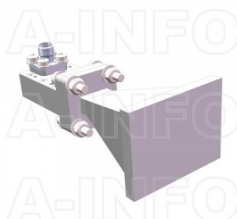
LB-42-15-ASPO Standard Gain Horn Antenna 18-26.5GHz 15dB Gain Rectangular Waveguide Interface



LB-42-15-C-SF Standard Gain Horn Antenna 18-26.5GHz 15dB Gain SMA Female



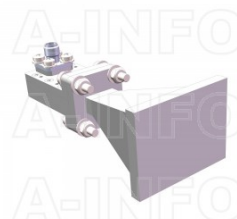
LB-42-15-C-KF Standard Gain Horn Antenna 18-26.5GHz 15dB Gain 2.92mm Female



LB-42-15-C-KFSPO Standard Gain Horn Antenna 18-26.5GHz 15dB Gain 2.92mm Female



LB-42-15-C-3.5F Standard Gain Horn Antenna 18-26.5GHz 15dB Gain 3.5mm Female



LB-42-15-C-3.5FSPO Standard Gain Horn Antenna 18-26.5GHz 15dB Gain 3.5mm Female

About this Datasheet

• Product Information

Product Link:
<https://www.ainfoinc.com/lb-42-15-c-sfspo-standard-gain-horn-antenna-18-26-5-ghz-15db-gain-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