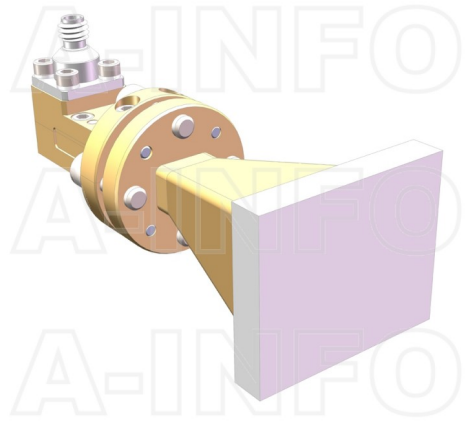


**LB-12-20-C-1.0FSPO Standard Gain Horn Antenna 60-90GHz 20dB Gain 1.0mm Female**

Standard Gain Horn Antenna Operating From 60GHz to 90GHz With a Nominal 20dB Gain With 1.0mm Female Connector

Product Information

SKU	LB-12-20-C-1.0FSPO
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Description

Standard Gain Horn Antenna LB-12-20-C-1.0FSPO, operating from 60 to 90GHz with a nominal 20dB gain and low VSWR 2:1 with 1.0mm Female connector output. The model LB-12-20-C-1.0FSPO has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 3W continuously and 5W 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

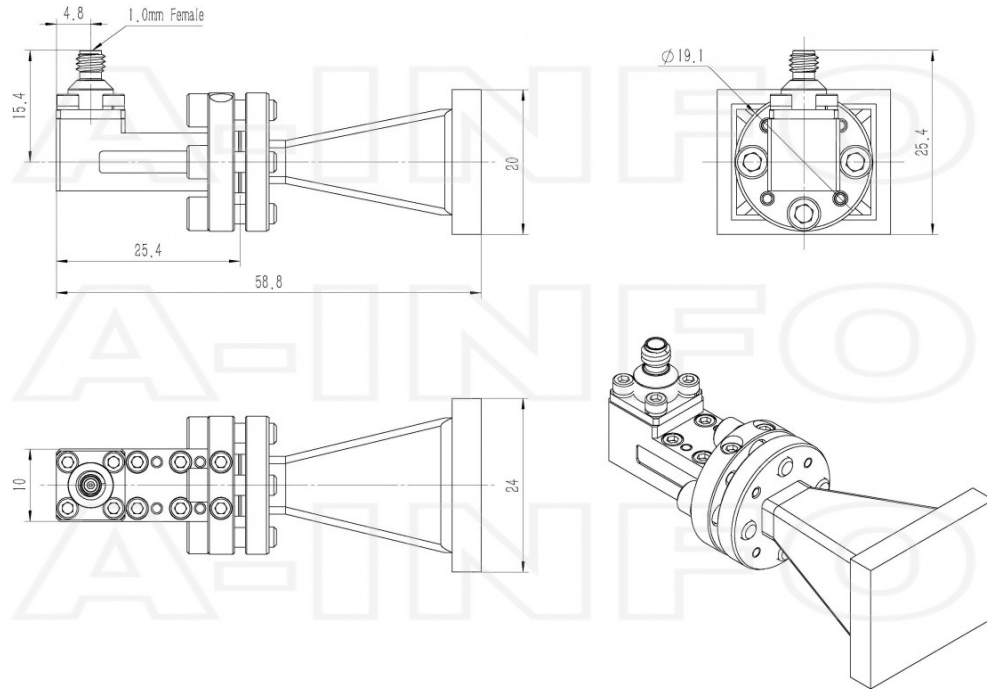
Electrical Specification		Interface	
Frequency, Min (GHz)	60	Output Type	Coaxial
Frequency, Max (GHz)	90	Connector	1.0mm
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR12	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	15	Finish	Gold Plated, Gray Paint
3dB Beamwidth, H-Plane, Typ (Deg.)	16	Size, W (mm)	24
Cross Pol. Isolation, Typ (dB)	35	Size, H (mm)	25.4
VSWR, Typ	2:1	Size, L (mm)	58.8
Impedance, (Ohm)	50	Weight, (kg)	0.04
Power Handling, CW, (W)	3		
Power Handling, Peak, (W)	5		

Additional Information

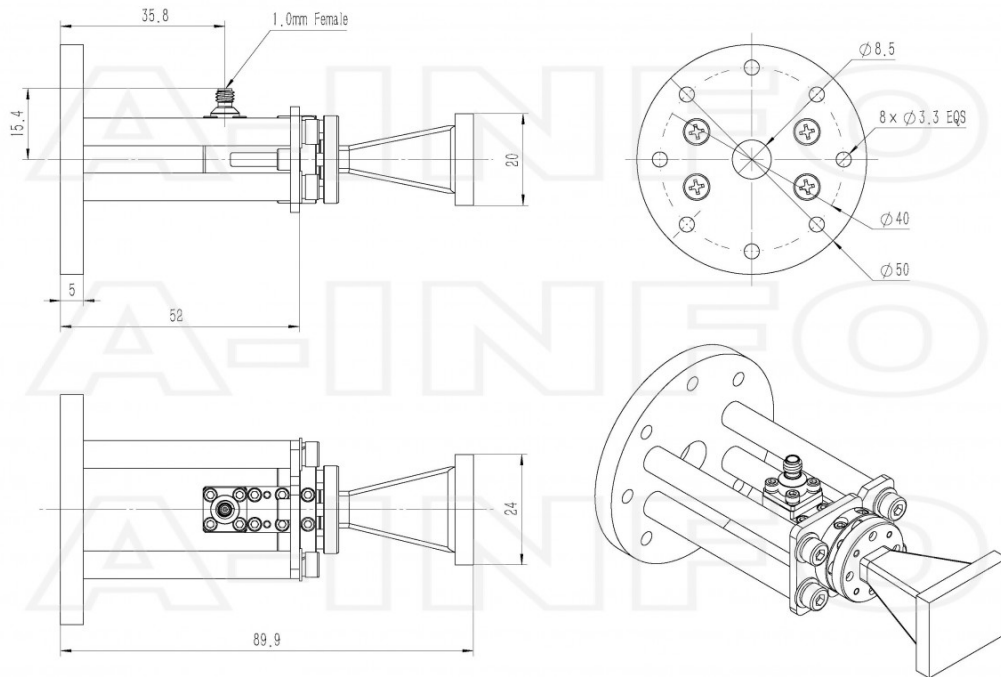
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

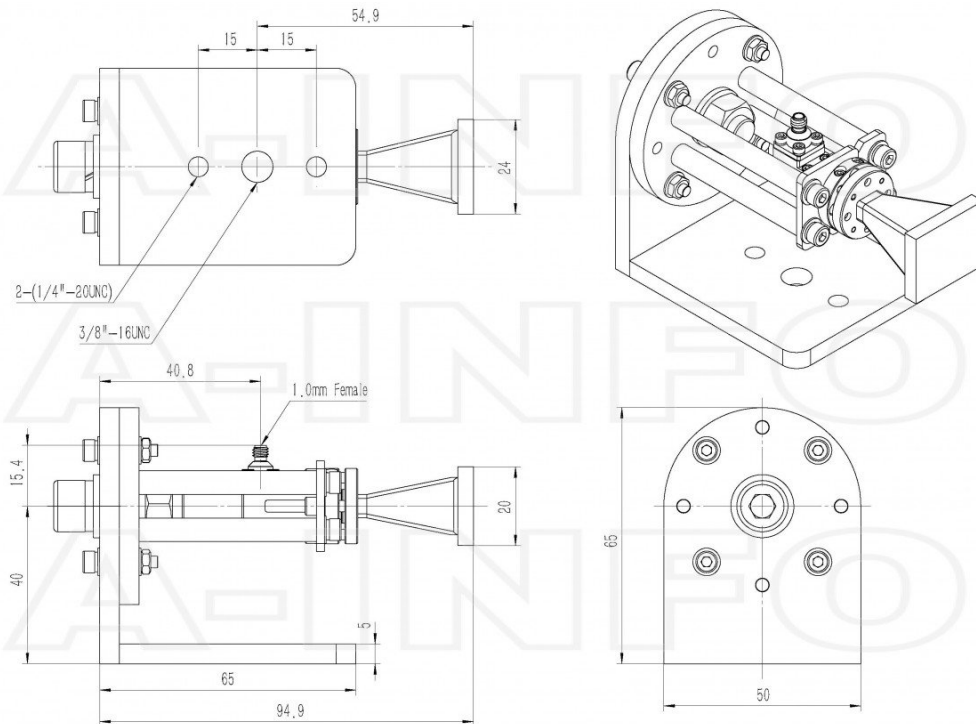
1.0mm-Female Output with Radome (Option, P/N: LB-12-20-C-1.0FSPO, Outdoor Application)



1.0mm-Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-15-10-C-MB & LB-12-20-C-1.0FSPO, Outdoor Application)

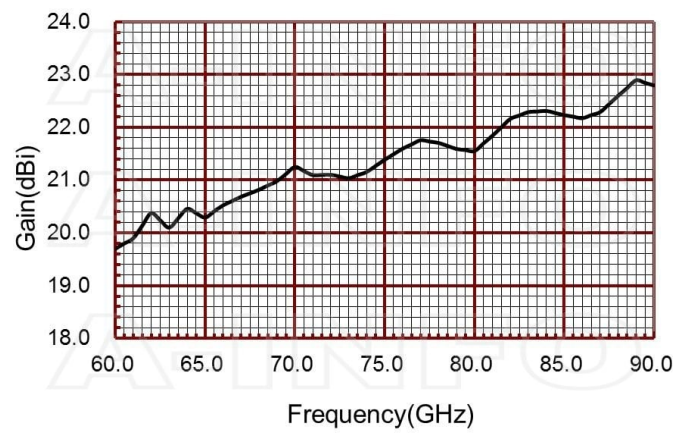


1.0mm-Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-15-10-C-MBL & LB-12-20-C-1.0FSPO, Outdoor Application)

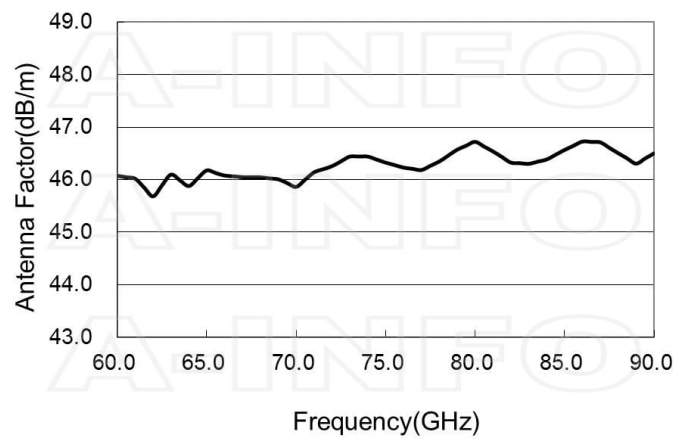


Typical Test Results

Gain



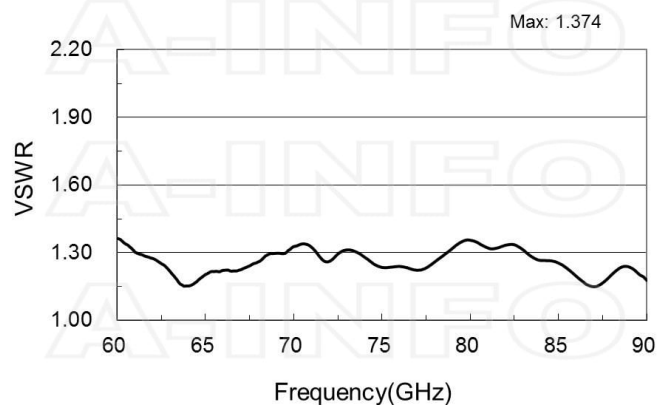
Antenna Factor



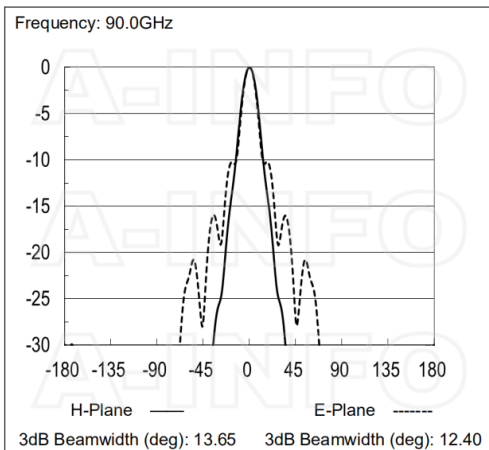
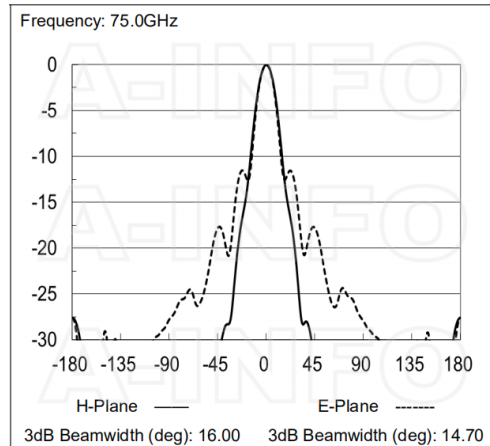
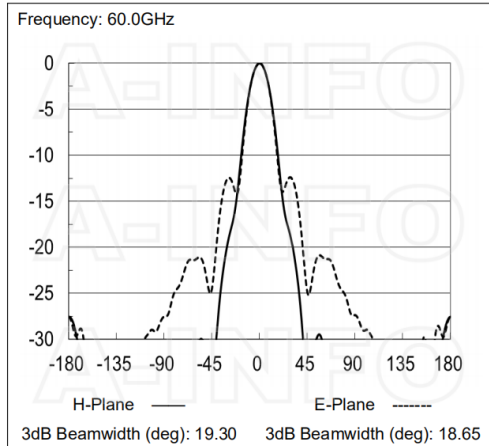
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
60	19.70	46.07
61	19.90	46.02
62	20.37	45.68
63	20.10	46.10
64	20.45	45.88
65	20.29	46.18
66	20.52	46.08
67	20.68	46.05
68	20.82	46.04
69	20.98	46.01
70	21.25	45.86
71	21.10	46.14
72	21.10	46.26
73	21.04	46.44
74	21.15	46.44
75	21.39	46.33
76	21.60	46.23
77	21.76	46.18
78	21.70	46.35
79	21.59	46.57
80	21.55	46.72
81	21.84	46.54
82	22.16	46.33
83	22.29	46.30
84	22.31	46.39
85	22.23	46.57
86	22.17	46.73
87	22.29	46.71
88	22.60	46.50
89	22.89	46.31
90	22.79	46.50

VSWR



Pattern



Related Products



LB-15-10-C-MB Round Type Mounting Bracket



LB-15-10-C-MBL L type mounting bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod
Metalfree



HSCS_4-40UNC_Pack Assembly
Pack



1.0M-1.0M-C010-150 Flexible
Cable Assembly 150mm DC-
110GHz 1.0mm Male to 1.0mm
Male



1.0M-1.0M-C010-200 Flexible
Cable Assembly 200mm DC-
110GHz 1.0mm Male to 1.0mm
Male



1.0M-1.0M-C010-300 Flexible
Cable Assembly 300mm DC-
110GHz 1.0mm Male to 1.0mm
Male



1.0M-1.0M-C010-500 Flexible
Cable Assembly 500mm DC-
110GHz 1.0mm Male to 1.0mm
Male



1.0M-1.0M-C010-1000 Flexible
Cable Assembly 1000mm DC-
110GHz 1.0mm Male to 1.0mm
Male



1.0M-1.0M-C010-1500 Flexible
Cable Assembly 1500mm DC-
110GHz 1.0mm Male to 1.0mm
Male



1.0M-1.0M-C010-2000 Flexible
Cable Assembly 2000mm DC-
110GHz 1.0mm Male to 1.0mm
Male



1.0M-1.0M-C010-3000 Flexible
Cable Assembly 3000mm DC-
110GHz 1.0mm Male to 1.0mm
Male



1.0M-1.0M-C010-5000 Flexible
Cable Assembly 5000mm DC-
110GHz 1.0mm Male to 1.0mm
Male



1.0M-1.0M-C010-10000 Flexible
Cable Assembly 10000mm DC-
110GHz 1.0mm Male to 1.0mm
Male

Similar Products



LB-12-20-A Standard Gain Horn
Antenna 60-90GHz 20dB Gain
Rectangular Waveguide Interface



LB-12-20-ASPO Standard Gain
Horn Antenna 60-90GHz 20dB
Gain Rectangular Waveguide
Interface



LB-12-20-C-1.0F Standard Gain
Horn Antenna 60-90GHz 20dB
Gain 1.0mm Female



LB-12-20-C-E1.0F Standard Gain
Horn Antenna 60-90GHz 20dB
Gain Endlaunch 1.0mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-12-20-c-1-0fsp-standart-gain-horn-antenna-60-90-ghz-20db-gain-1-0mm-female Data subject to change without notice. © A-INFO INC. 2023. All Rights Reserved	● Contact Us Address: 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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