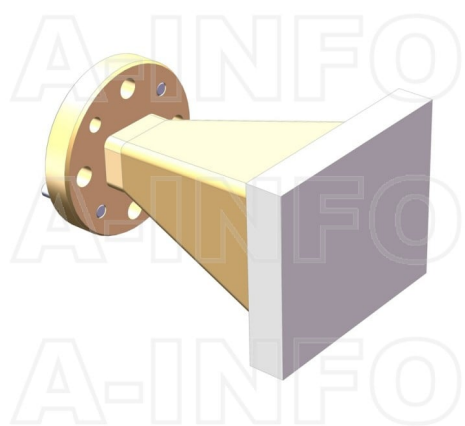




LB-12-20-ASPO Standard Gain Horn Antenna 60-90GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 60GHz to 90GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-12-20-ASPO
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Description

Standard Gain Horn Antenna LB-12-20-ASPO, operating from 60 to 90GHz with a nominal 20dB gain and low VSWR 1.25:1 with FUGP740 output. The model LB-12-20-ASPO has uniform gain through its frequency span, providing efficient performance characteristics and directionality. 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

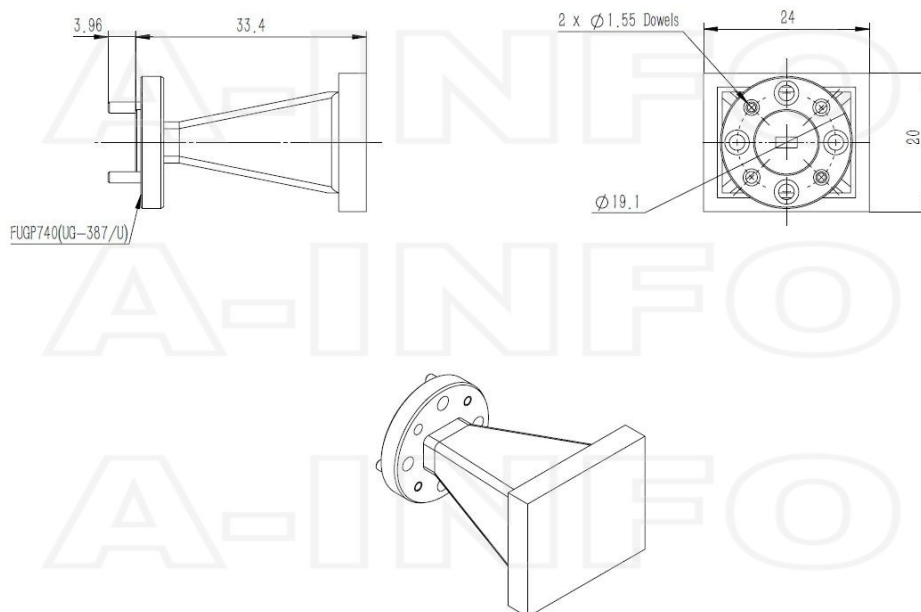
Electrical Specification		Interface	
Frequency, Min (GHz)	60	Output Type	Waveguide
Frequency, Max (GHz)	90	Flange Style	Round
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR12	Flange Designation	FUGP740(UG-387/U)
Gain, Typ (dBi)	20	Connector Gender	N/A
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Typ (Deg.)	15	Figure	A Type
3dB Beamwidth, H-Plane, Typ (Deg.)	16	Body Material	Cu
Cross Pol. Isolation, Typ (dB)	35	Finish	Gold Plated, Gray Paint
VSWR, Typ	1.25:1	Size, W (mm)	24
		Size, H (mm)	20
		Size, L (mm)	33.4
		Weight, (kg)	0.02

Additional Information

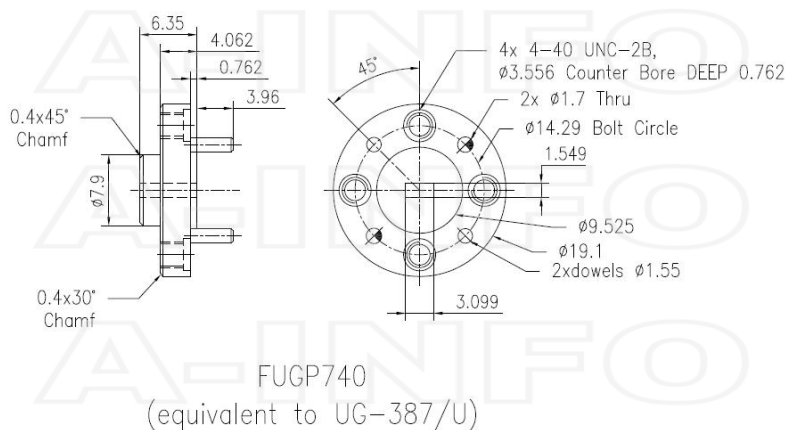
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FUGP740 Output with Radome (Option, P/N: LB-12-20-ASPO, Outdoor Application)

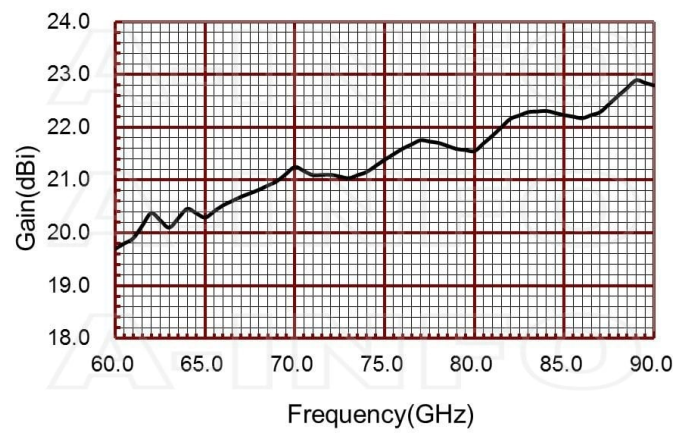


Flange Drawing

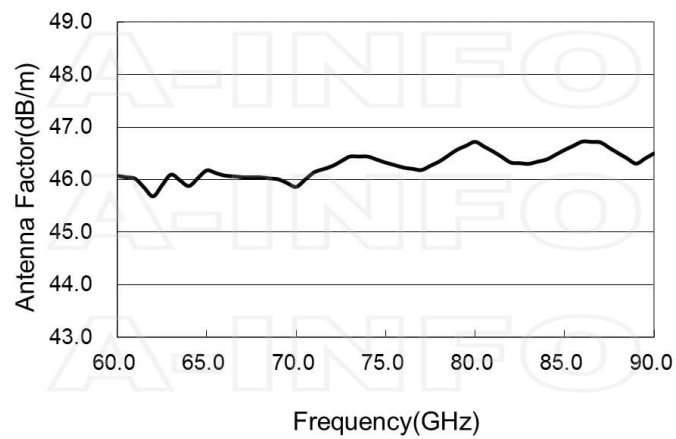


Typical Test Results

Gain



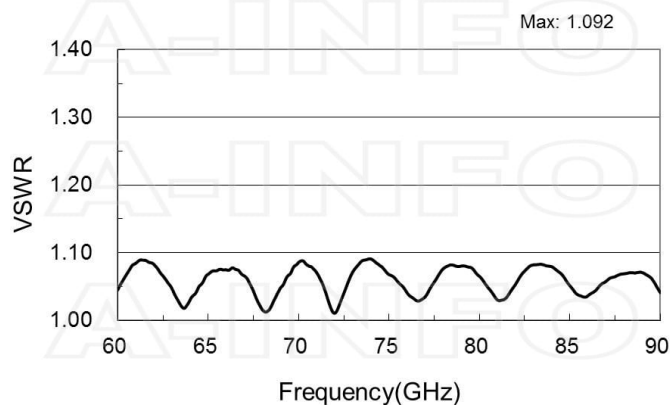
Antenna Factor



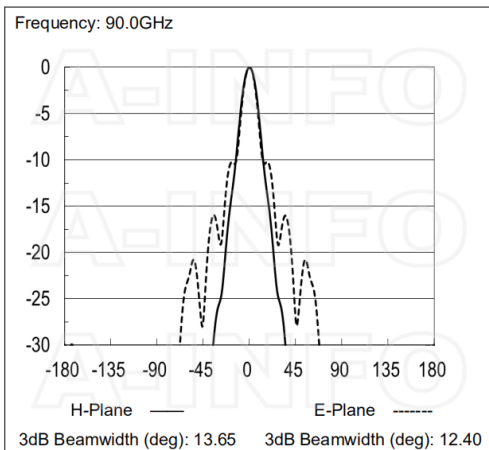
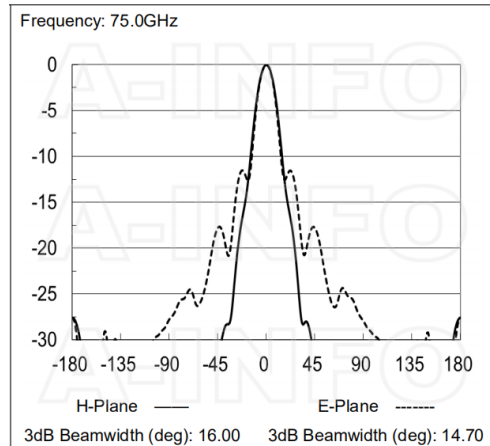
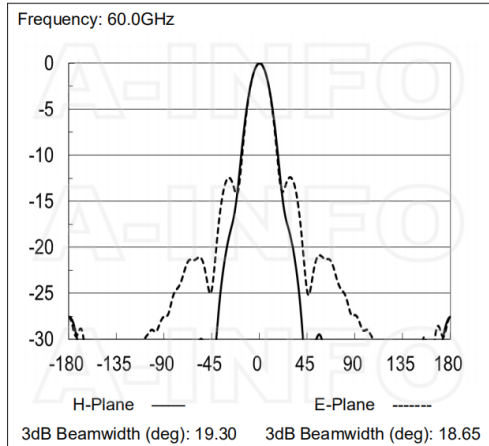
Antenna Factor (Table)

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



12WCA1.0_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 60-90GHz WR12 to 1.0mm Female



12WCA1.0M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 60-90GHz WR12 to 1.0mm Male



12WECA1.0_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 60-90GHz WR12 to 1.0mm Female



12WECA1.0M_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 60-90GHz WR12 to 1.0mm Male



HSCS_4-40UNC_Pack Assembly
Pack

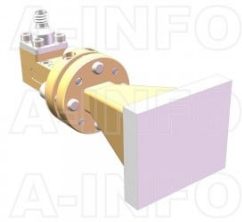
Similar Products



LB-12-20-A 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-1.0FSPO 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-aspo-standard-gain-horn-antenna-60-90-ghz-20db-gain-fugp740 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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