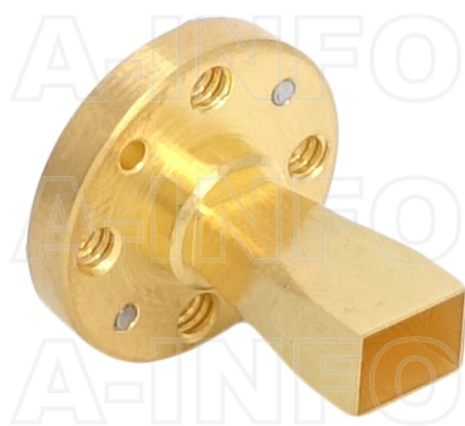




LB-8-15-A Standard Gain Horn Antenna 90-140GHz 15dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 90GHz to 140GHz With a Nominal 15dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-8-15-A
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Description

Standard Gain Horn Antenna LB-8-15-A, operating from 90 to 140GHz with a nominal 15dB gain and low VSWR 1.1:1 with UG387/U-M output. The model LB-8-15-A has uniform gain through its frequency span, providing efficient performance characteristics and directionality. 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

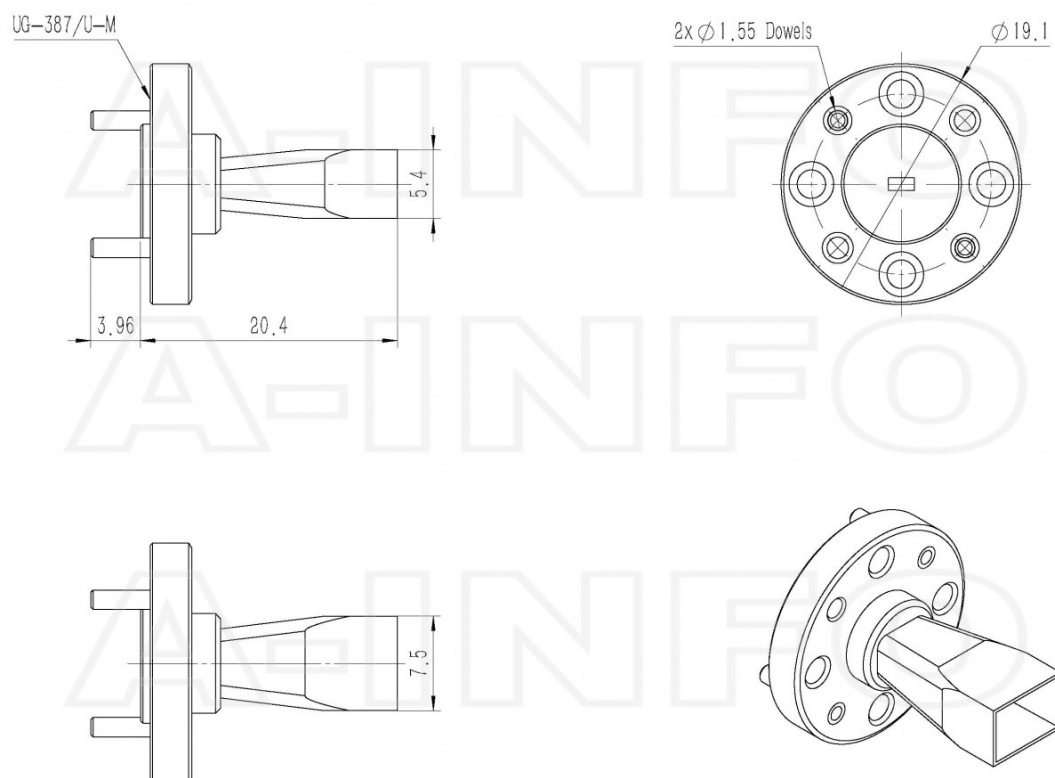
Electrical Specification		Interface	
Frequency, Min (GHz)	90	Output Type	Waveguide
Frequency, Max (GHz)	140	Flange Style	Round
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR8	Flange Designation	UG-387/U-M
Gain, Typ (dBi)	15	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	23	Body Material	Cu
3dB Beamwidth, H-Plane, Typ (Deg.)	24	Finish	Gold Plated
Cross Pol. Isolation, Typ (dB)	35	Size, W (mm)	19.1
VSWR, Typ	1.1:1	Size, H (mm)	19.1
		Size, L (mm)	20.4
		Weight, (kg)	0.01

Additional Information

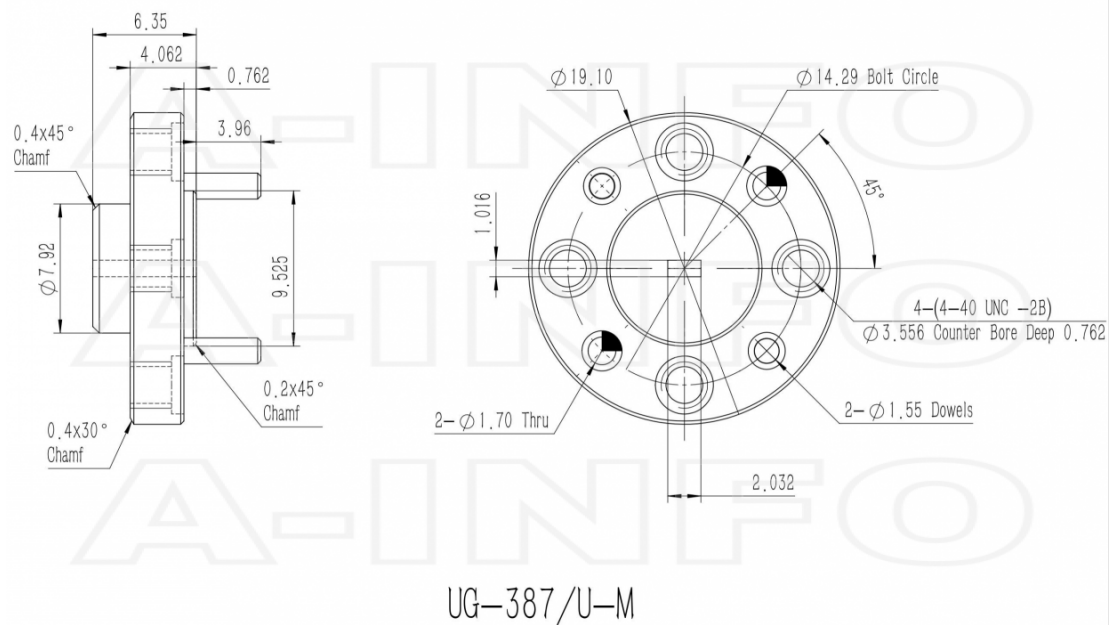
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

UG-387/U-M Output (P/N: LB-8-15-A)

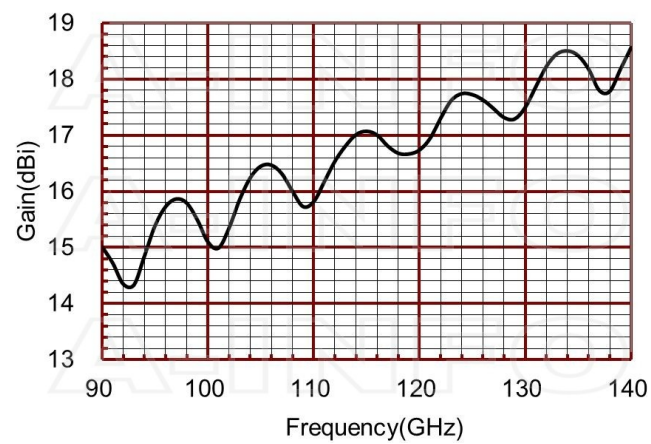


Flange Drawing

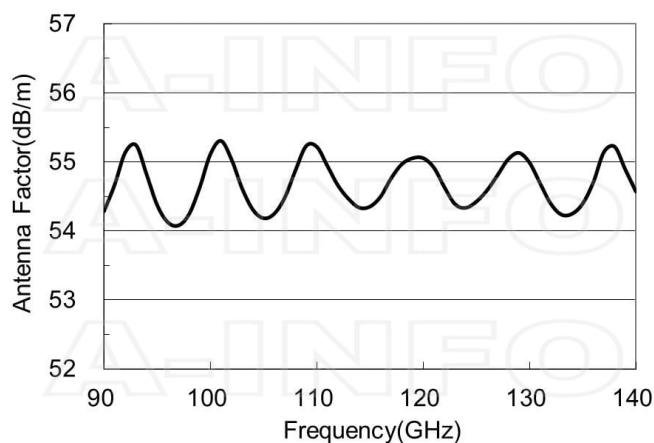


Typical Test Results

Gain



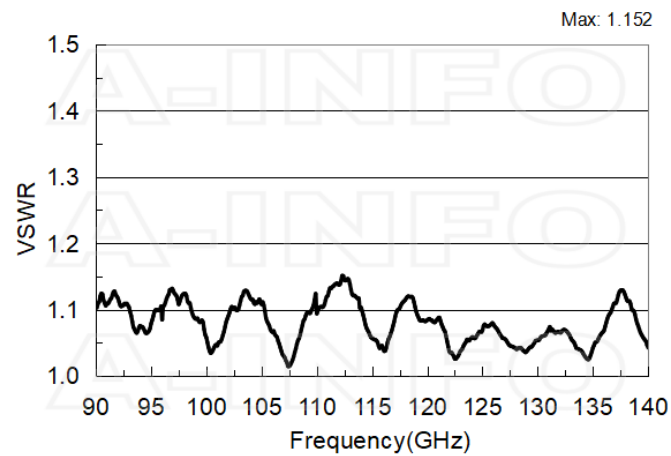
Antenna Factor



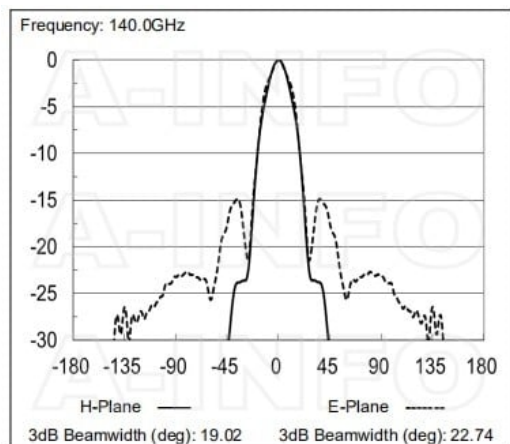
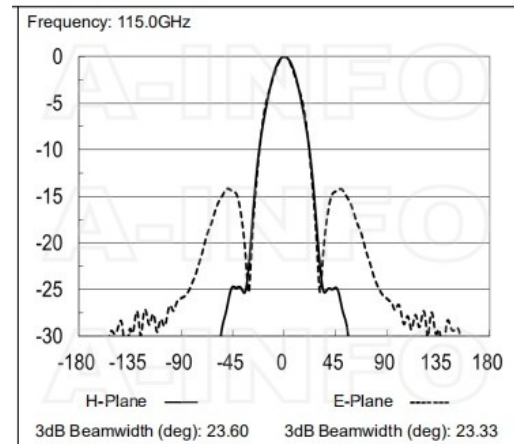
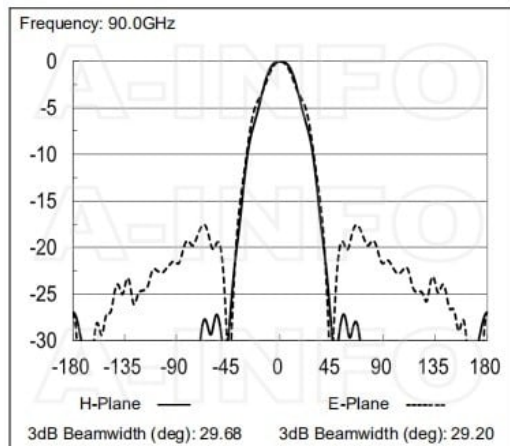
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)		Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
90	15.01	54.29		116	17.00	54.50
91	14.72	54.67		117	16.81	54.77
92	14.34	55.14		118	16.68	54.97
93	14.33	55.25		119	16.67	55.05
94	14.85	54.82		120	16.74	55.06
95	15.39	54.37		121	16.94	54.92
96	15.73	54.13		122	17.30	54.63
97	15.87	54.08		123	17.62	54.39
98	15.79	54.25		124	17.74	54.34
99	15.49	54.63		125	17.72	54.43
100	15.10	55.11		126	17.63	54.59
101	14.99	55.31		127	17.48	54.81
102	15.35	55.03		128	17.31	55.04
103	15.86	54.61		129	17.29	55.13
104	16.24	54.31		130	17.50	54.99
105	16.45	54.19		131	17.87	54.69
106	16.47	54.25		132	18.23	54.39
107	16.31	54.49		133	18.45	54.24
108	16.00	54.88		134	18.50	54.25
109	15.73	55.23		135	18.42	54.40
110	15.82	55.22		136	18.17	54.71
111	16.17	54.94		137	17.80	55.15
112	16.54	54.66		138	17.79	55.22
113	16.81	54.46		139	18.18	54.89
114	17.01	54.34		140	18.56	54.57
115	17.07	54.35				

VSWR



Pattern



Related Products



HSCS_4-40UNC_Pack Assembly Pack

Similar Products



LB-8-15-ASPO Standard Gain Horn Antenna 90-140GHz 15dB Gain Rectangular Waveguide Interface



LB-8-10-A Standard Gain Horn Antenna 90-140GHz 10dB Gain Rectangular Waveguide Interface



LB-8-10-ASPO Standard Gain Horn Antenna 90-140GHz 10dB Gain Rectangular Waveguide Interface



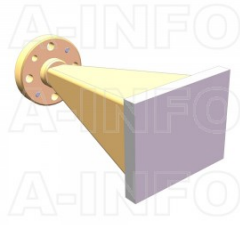
LB-8-20-A Standard Gain Horn Antenna 90-140GHz 20dB Gain Rectangular Waveguide Interface



LB-8-20-ASPO Standard Gain Horn Antenna 90-140GHz 20dB Gain Rectangular Waveguide Interface



LB-8-25-A Standard Gain Horn Antenna 90-140GHz 25dB Gain Rectangular Waveguide Interface



LB-8-25-ASPO Standard Gain Horn Antenna 90-140GHz 25dB Gain Rectangular Waveguide Interface

About this Datasheet

• Product Information Product Link: https://www.ainfoinc.com/lb-8-15-a-standard-gain-horn-antenna-90-140-ghz-15db-gain-ug387-u-m 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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