



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

Standard Gain Horn Antenna Operating From 90GHz to 140GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-8-20-A
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Description

Standard Gain Horn Antenna LB-8-20-A, operating from 90 to 140GHz with a nominal 20dB gain and low VSWR 1.1:1 with UG387/U-M output. The model LB-8-20-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

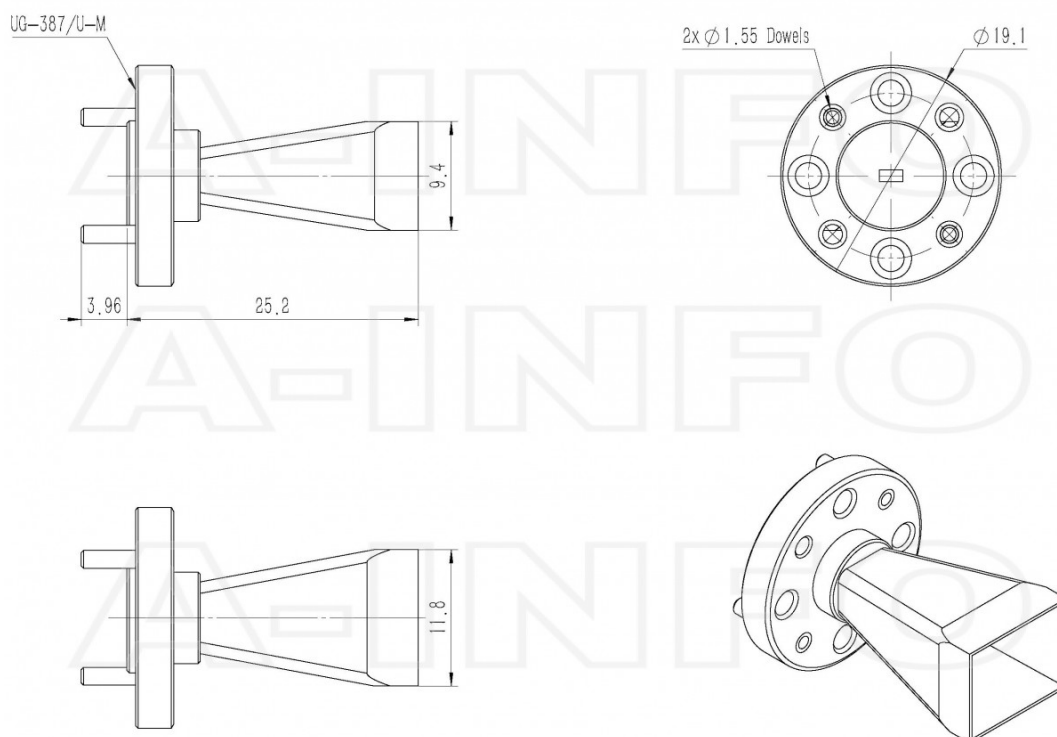
Electrical Specification		Interface	
Frequency, Min (GHz)	90	Output Type	Waveguide
Frequency, Max (GHz)	140	Flange Style	Round
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR8	Flange Designation	UG-387/U-M
Gain, Typ (dBi)	20	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	15	Body Material	Cu
3dB Beamwidth, H-Plane, Typ (Deg.)	16	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)	25.2
		Weight, (kg)	0.02

Additional Information

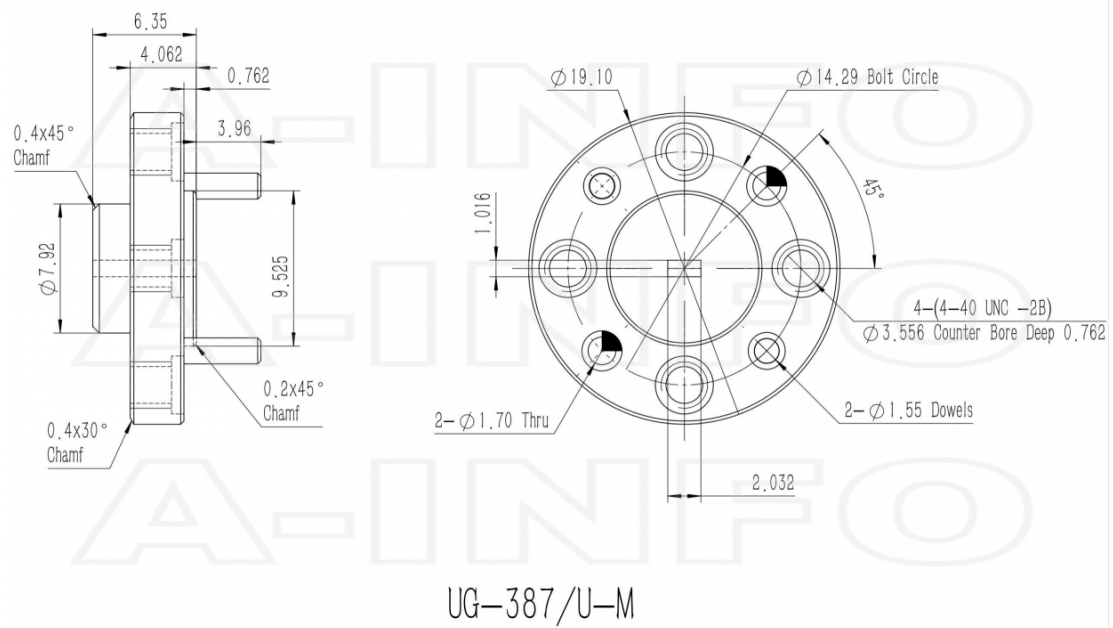
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

UG-387/U-M Output (P/N: LB-8-20-A)

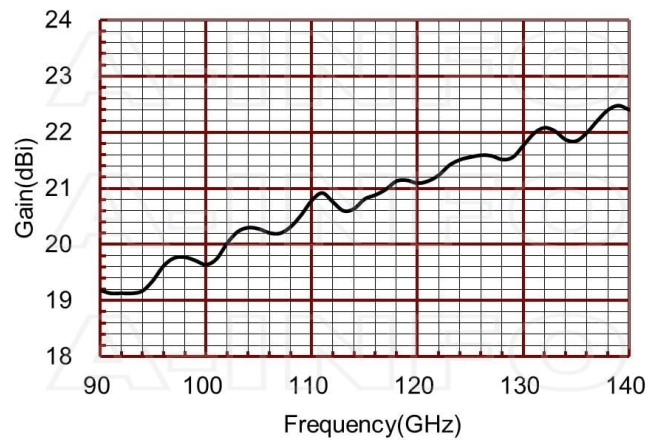


Flange Drawing

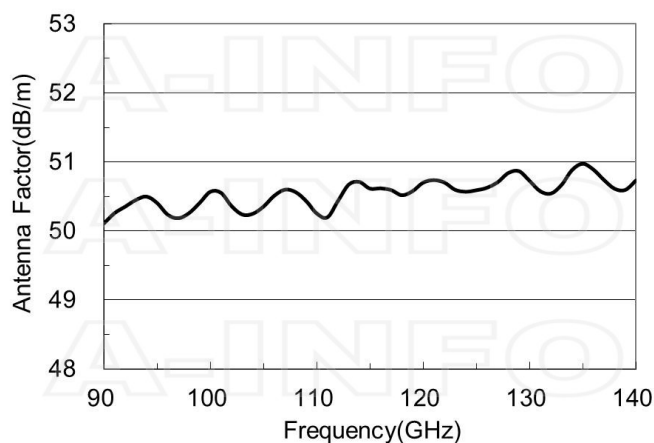


Typical Test Results

Gain



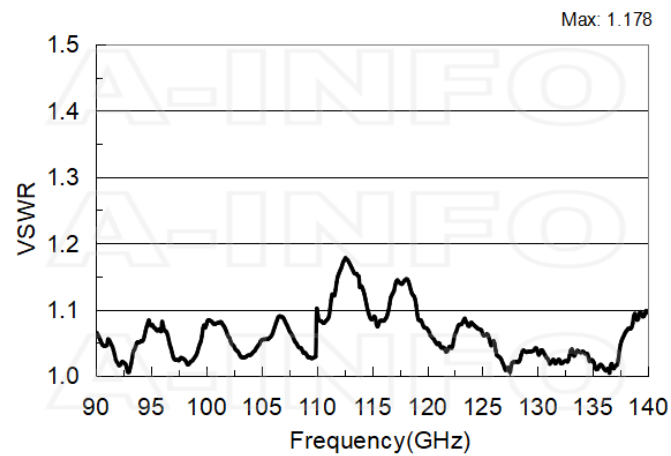
Antenna Factor



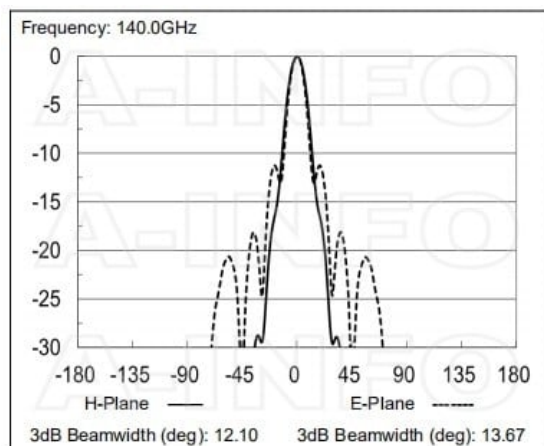
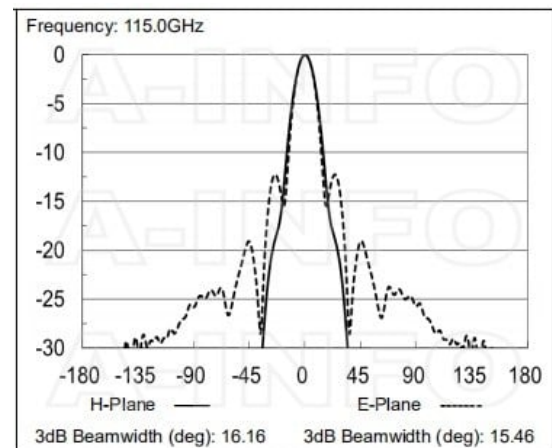
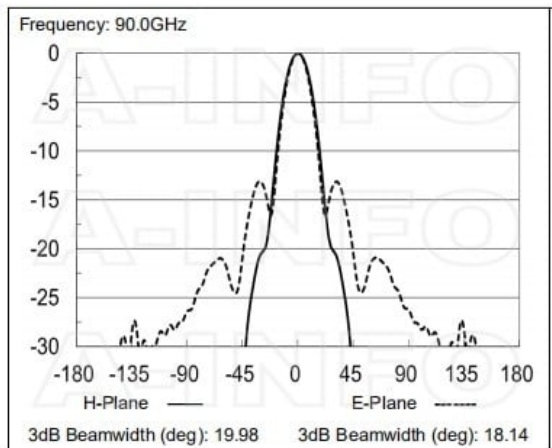
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)		Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
90	19.18	50.11		116	20.88	50.62
91	19.13	50.26		117	20.98	50.59
92	19.13	50.35		118	21.13	50.52
93	19.13	50.45		119	21.14	50.58
94	19.17	50.50		120	21.09	50.70
95	19.36	50.40		121	21.13	50.74
96	19.62	50.24		122	21.23	50.70
97	19.76	50.19		123	21.41	50.60
98	19.77	50.26		124	21.51	50.57
99	19.71	50.41		125	21.56	50.59
100	19.64	50.57		126	21.59	50.63
101	19.74	50.55		127	21.58	50.71
102	20.02	50.36		128	21.51	50.84
103	20.23	50.24		129	21.55	50.87
104	20.30	50.25		130	21.76	50.73
105	20.28	50.36		131	21.98	50.58
106	20.21	50.51		132	22.08	50.54
107	20.20	50.60		133	22.02	50.67
108	20.31	50.56		134	21.87	50.88
109	20.52	50.44		135	21.84	50.97
110	20.78	50.25		136	21.99	50.89
111	20.92	50.20		137	22.20	50.74
112	20.76	50.44		138	22.40	50.61
113	20.60	50.67		139	22.48	50.59
114	20.64	50.71		140	22.40	50.73
115	20.81	50.61				

VSWR



Pattern

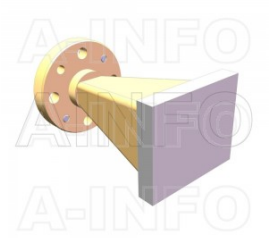


Related Products



HSCS_4-40UNC_Pack Assembly Pack

Similar Products



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



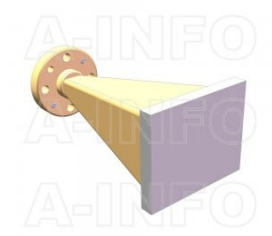
LB-8-15-A Standard Gain Horn Antenna 90-140GHz 15dB Gain Rectangular Waveguide Interface



LB-8-15-ASPO Standard Gain Horn Antenna 90-140GHz 15dB 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-8-20-a-standard-gain-horn-antenna-90-140-ghz-20db-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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