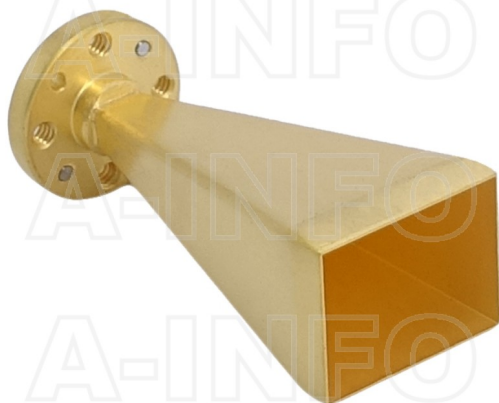


**LB-8-25-A Standard Gain Horn Antenna 90-140GHz 25dB Gain
Rectangular Waveguide Interface**

Standard Gain Horn Antenna Operating From 90GHz to 140GHz With a Nominal 25dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-8-25-A
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Description

Standard Gain Horn Antenna LB-8-25-A, operating from 90 to 140GHz with a nominal 25dB gain and low VSWR 1.1:1 with UG-387/U-M output. The model LB-8-25-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

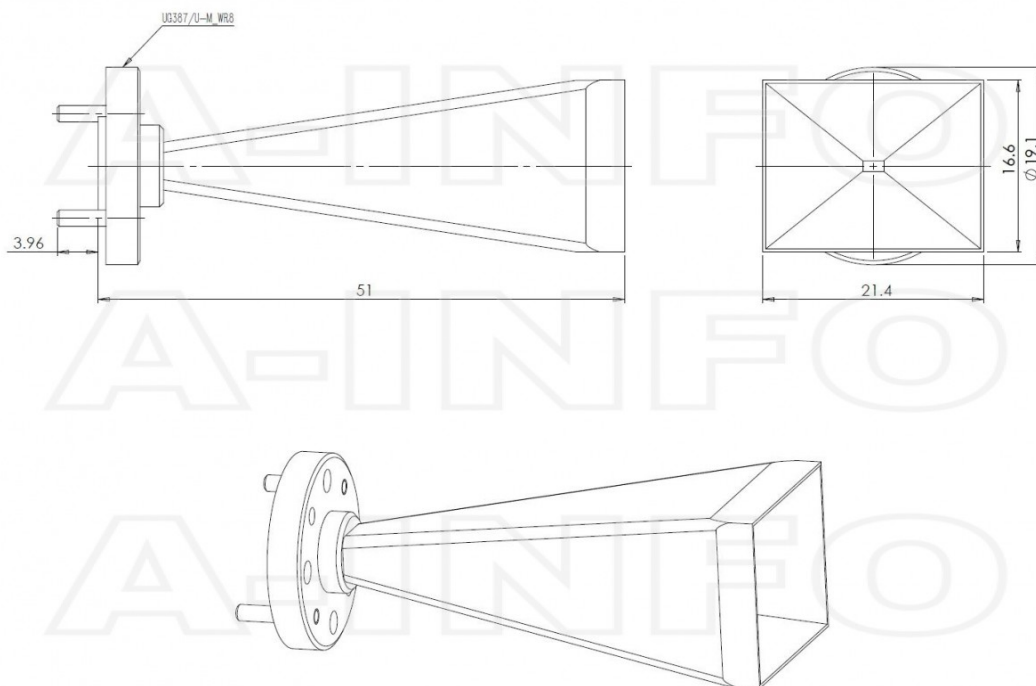
Electrical Specification		Interface	
Frequency, Min (GHz)	90	Output Type	Waveguide
Frequency, Max (GHz)	140	Flange Style	Round
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR8	Flange Designation	UG-387/U-M
Gain, Typ (dBi)	25	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	9	Body Material	Cu
3dB Beamwidth, H-Plane, Typ (Deg.)	11	Finish	Gold Plated
Cross Pol. Isolation, Typ (dB)	40	Size, W (mm)	21.4
VSWR, Typ	1.1:1	Size, H (mm)	19.1
		Size, L (mm)	51
		Weight, (kg)	0.03

Additional Information

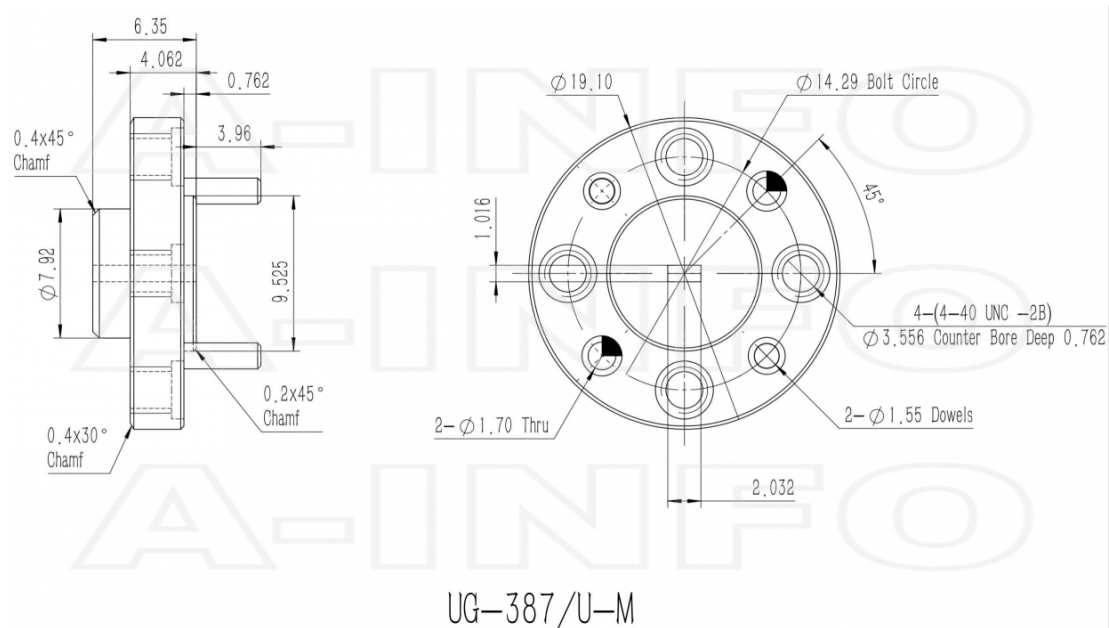
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

UG-387/U-M Output (P/N: LB-8-25-A)

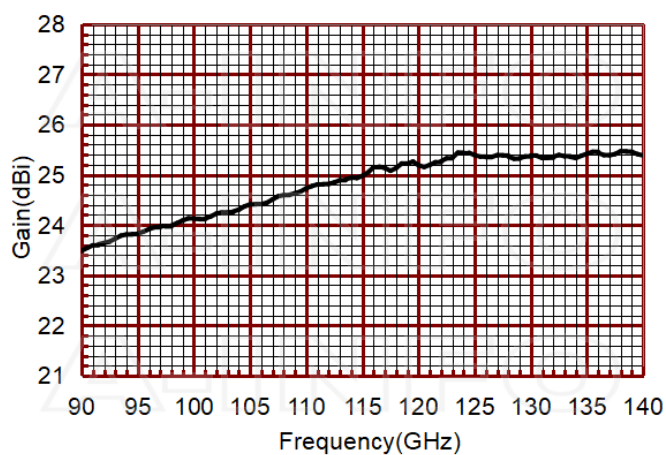


Flange Drawing

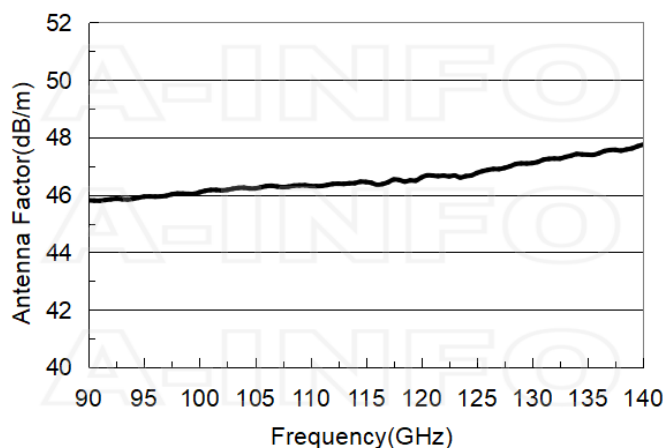


Typical Test Results

Gain



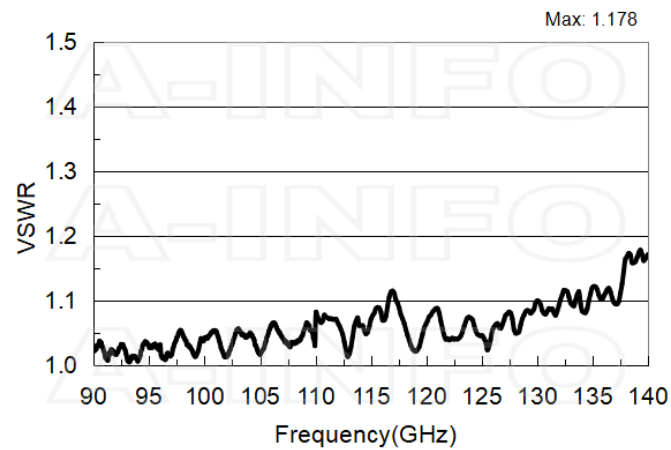
Antenna Factor



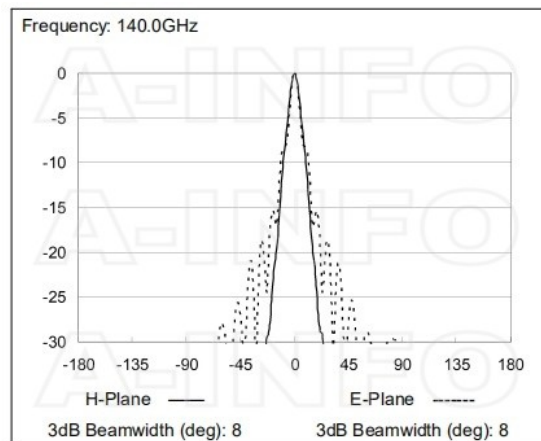
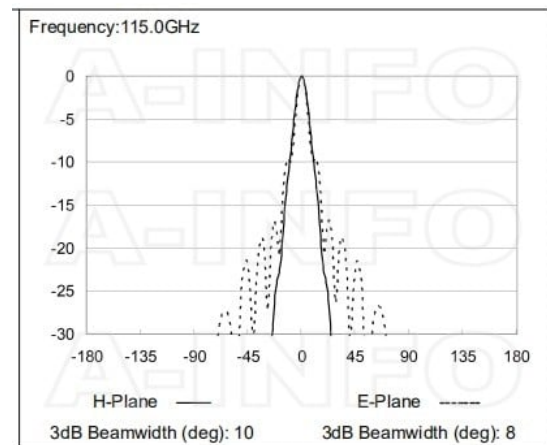
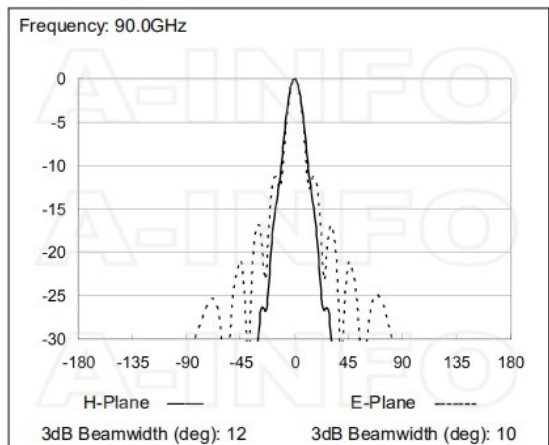
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)		Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
90	23.49	45.81		116	25.15	46.35
91	23.60	45.79		117	25.13	46.44
92	23.64	45.84		118	25.13	46.52
93	23.73	45.85		119	25.22	46.50
94	23.81	45.86		120	25.19	46.60
95	23.83	45.94		121	25.20	46.67
96	23.92	45.94		122	25.27	46.67
97	23.98	45.97		123	25.34	46.67
98	23.99	46.04		124	25.43	46.65
99	24.09	46.03		125	25.39	46.76
100	24.12	46.09		126	25.35	46.87
101	24.13	46.17		127	25.39	46.90
102	24.23	46.15		128	25.36	46.99
103	24.25	46.21		129	25.33	47.09
104	24.31	46.25		130	25.38	47.11
105	24.41	46.22		131	25.33	47.22
106	24.42	46.30		132	25.36	47.26
107	24.51	46.29		133	25.37	47.32
108	24.60	46.28		134	25.33	47.42
109	24.63	46.33		135	25.42	47.40
110	24.73	46.31		136	25.44	47.45
111	24.81	46.31		137	25.39	47.56
112	24.82	46.38		138	25.47	47.54
113	24.89	46.38		139	25.45	47.62
114	24.94	46.41		140	25.38	47.75
115	24.98	46.45				

VSWR



Pattern

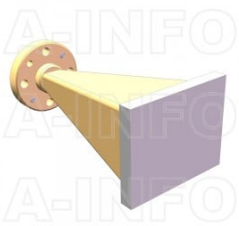


Related Products



HSCS_4-40UNC_Pack Assembly Pack

Similar Products



LB-8-25-ASPO Standard Gain Horn Antenna 90-140GHz 25dB 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-8-20-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

About this Datasheet

• Product Information Product Link: https://www.ainfoinc.com/lb-8-25-a-standard-gain-horn-antenna-90-140-ghz-25db-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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