

**LB-6-10-A Standard Gain Horn Antenna 110-170GHz 10dB Gain
Rectangular Waveguide Interface**

Standard Gain Horn Antenna Operating From 110GHz to 170GHz With a Nominal 10dB Gain With Rectangular Waveguide Interface



Product Information

SKU	LB-6-10-A
-----	-----------

Description

Standard Gain Horn Antenna LB-6-10-A, operating from 110 to 170GHz with a nominal 10dB gain and low VSWR 1.2:1 with UG387/U-M output. The model LB-6-10-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

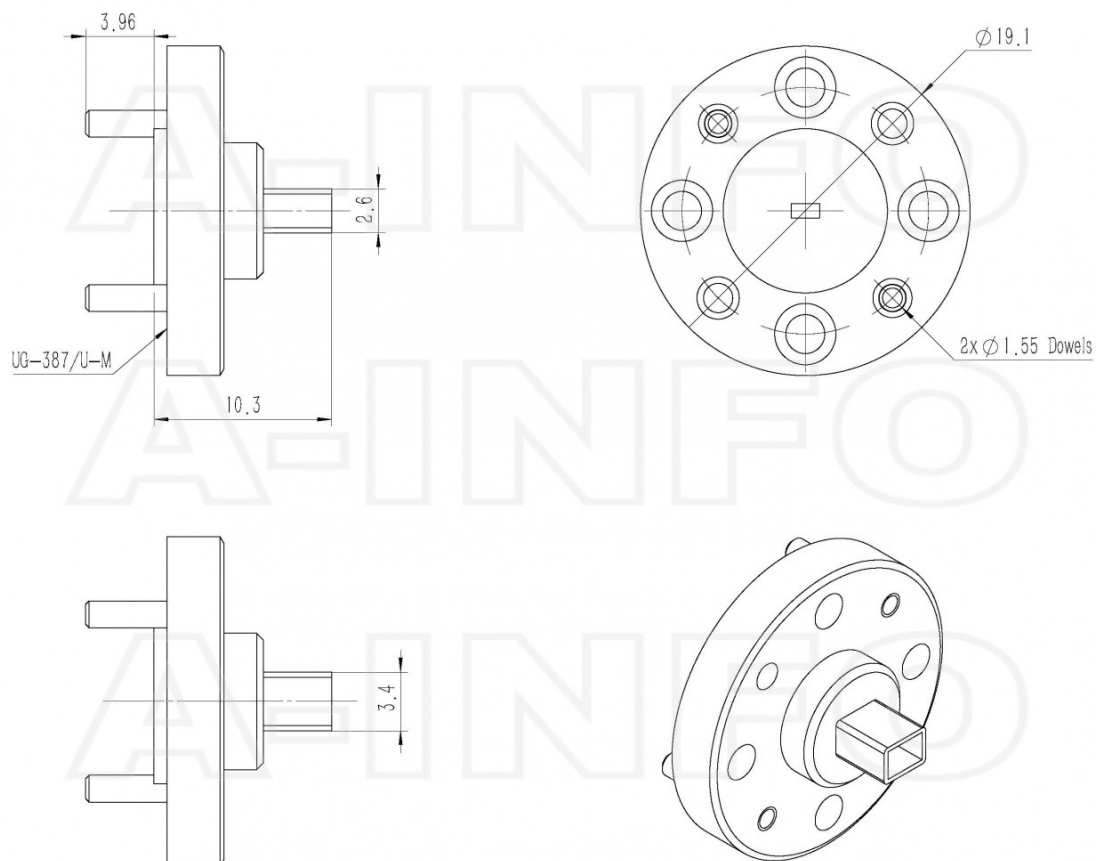
Electrical Specification		Interface	
Frequency, Min (GHz)	110	Output Type	Waveguide
Frequency, Max (GHz)	170	Flange Style	Round
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR6	Flange Designation	UG-387/U
Gain, Typ (dBi)	10	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	52	Body Material	Cu
3dB Beamwidth, H-Plane, Typ (Deg.)	49	Finish	Gold Plated
Cross Pol. Isolation, Typ (dB)	35	Size, W (mm)	19.1
VSWR, Typ	1.2:1	Size, H (mm)	19.1
		Size, L (mm)	10.3
		Weight, (kg)	0.01

Additional Information

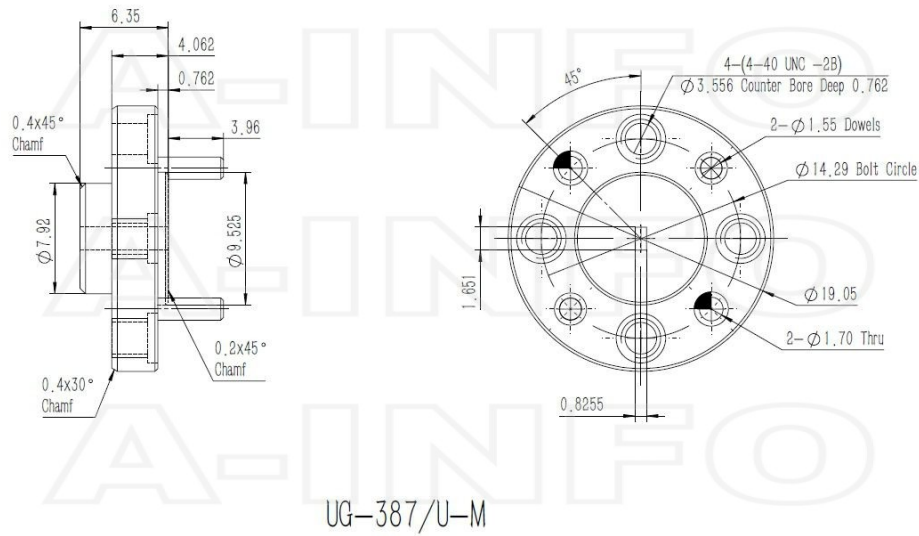
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
-------------	---	--------------	---

Outline Drawing

UG-387/U-M Output (P/N: LB-6-10-A)

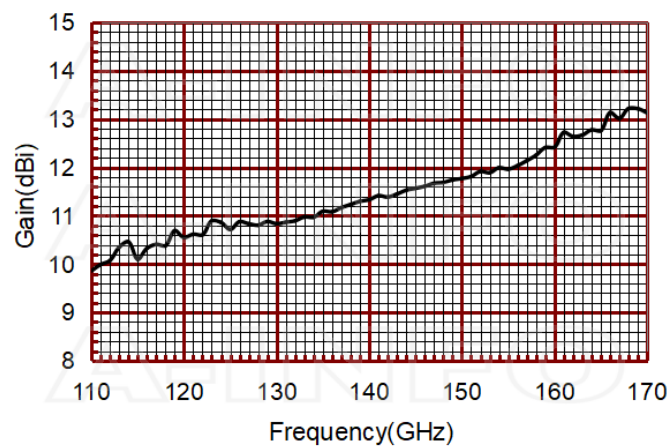


Flange Drawing

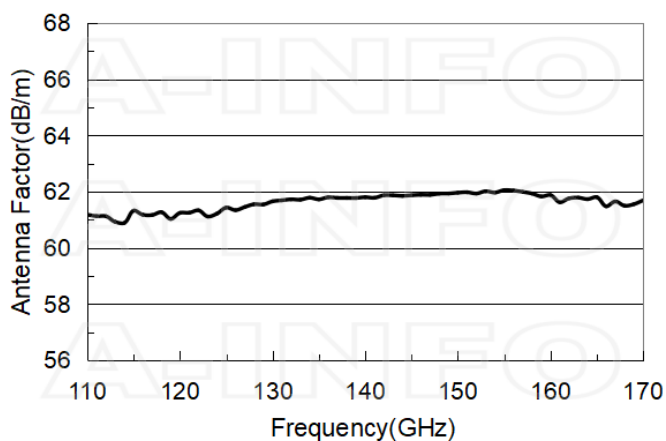


Typical Test Results

Gain



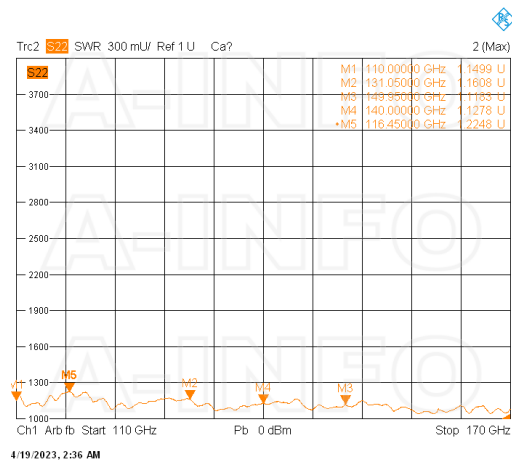
Antenna Factor



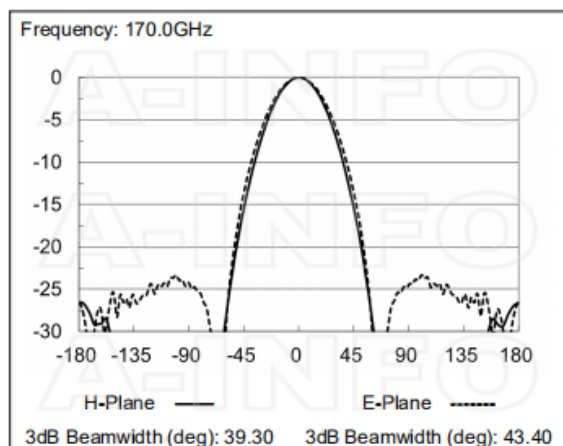
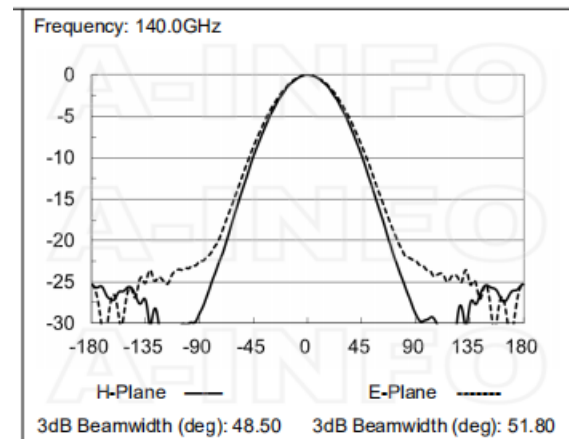
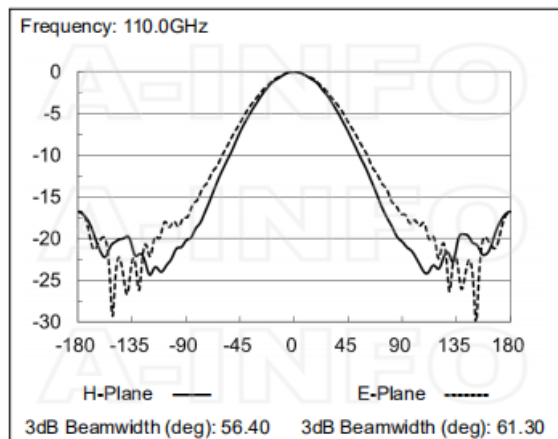
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)	Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
110	9.86	61.18	141	11.41	61.78
111	9.99	61.13	142	11.39	61.87
112	10.07	61.12	143	11.45	61.87
113	10.35	60.93	144	11.53	61.85
114	10.46	60.89	145	11.57	61.87
115	10.10	61.32	146	11.61	61.89
116	10.32	61.18	147	11.67	61.88
117	10.41	61.17	148	11.69	61.93
118	10.38	61.27	149	11.74	61.93
119	10.69	61.03	150	11.77	61.96
120	10.55	61.24	151	11.81	61.98
121	10.62	61.25	152	11.92	61.93
122	10.60	61.33	153	11.89	62.01
123	10.89	61.11	154	11.99	61.97
124	10.86	61.22	155	11.96	62.05
125	10.72	61.43	156	12.04	62.04
126	10.88	61.34	157	12.14	61.99
127	10.83	61.45	158	12.25	61.93
128	10.80	61.55	159	12.41	61.83
129	10.88	61.54	160	12.42	61.87
130	10.84	61.65	161	12.72	61.62
131	10.87	61.69	162	12.64	61.76
132	10.90	61.73	163	12.67	61.78
133	10.97	61.71	164	12.77	61.73
134	10.97	61.78	165	12.76	61.80
135	11.09	61.72	166	13.13	61.48
136	11.08	61.80	167	13.01	61.65
137	11.17	61.78	168	13.22	61.50
138	11.23	61.77	169	13.21	61.55
139	11.30	61.77	170	13.13	61.69
140	11.33	61.80			

VSWR



Pattern



Related Products



HSCS_4-40UNC_Pack Assembly Pack

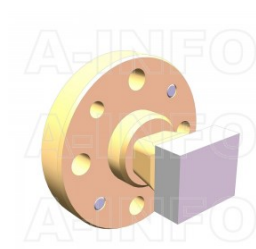
Similar Products



LB-6-10-ASPO Standard Gain Horn Antenna 110-170GHz 10dB Gain Rectangular Waveguide Interface



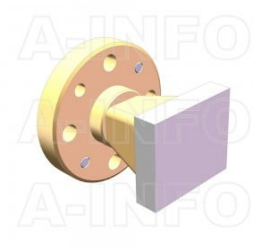
LB-6-15-A Standard Gain Horn Antenna 110-170GHz 15dB Gain Rectangular Waveguide Interface



LB-6-15-ASPO Standard Gain Horn Antenna 110-170GHz 15dB Gain Rectangular Waveguide Interface



LB-6-20-A Standard Gain Horn Antenna 110-170GHz 20dB Gain Rectangular Waveguide Interface



LB-6-20-ASPO Standard Gain Horn Antenna 110-170GHz 20dB Gain Rectangular Waveguide Interface



LB-6-25-A Standard Gain Horn Antenna 110-170GHz 25dB Gain Rectangular Waveguide Interface



LB-6-25-ASPO Standard Gain Horn Antenna 110-170GHz 25dB Gain Rectangular Waveguide Interface

About this Datasheet

• Product Information Product Link: https://www.ainfoinc.com/lb-6-10-a-standard-gain-horn-antenna-110-170-ghz-10db-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
--	---	--