



LB-CH-15-20-T88-C-1.0F Dual Linear Polarization Corrugated Conical Horn Antenna 50-110GHz 20dB Gain Rectangular Waveguide Interface

Dual Linear Polarization Corrugated Conical Horn Antenna Operating From 50GHz to 110GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-CH-15-20-T88-C-1.0F
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Description

Dual linear polarization corrugated conical horn antenna LB-CH-15-20-T88-C-1.0F operating from 50 to 110GHz with a nominal 20dB gain and low VSWR 3.0:1 with rectangular waveguide WR15 output. The waveguide flange is 1.0mm-Female. The model LB-CH-15-20-T88-C-1.0F has uniform gain through its frequency span, providing a nearly circularly symmetric copolar radiation pattern in a wide bandwidth and very low crosspolarisation. This horn antenna has dual linear polarization and ideally suited for antenna far field testing, reflector feed, CATR, RCS measurement and other applications.

Technical Specification

Electrical Specification		Interface	
Frequency, Min (GHz)	50	Output Type	Waveguide
Frequency, Max (GHz)	110	Connector	1.0mm
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR15	Figure	C Type
Gain, Typ (dBi)	20	Mechanical Specification	
Polarization	Dual Linear	Body Material	Cu
3dB Beamwidth, E-Plane, Typ (Deg.)	13	Finish	Gold Plated
3dB Beamwidth, H-Plane, Typ (Deg.)	13	Size, W (mm)	47.8
Cross Pol. Isolation, Typ (dB)	30	Size, H (mm)	28.9
Port to Port Isolation, Min (dB)	30	Size, L (mm)	131.9
Port to Port Isolation, Typ (dB)	40	Weight, (kg)	0.26
VSWR, Typ	3.0:1		

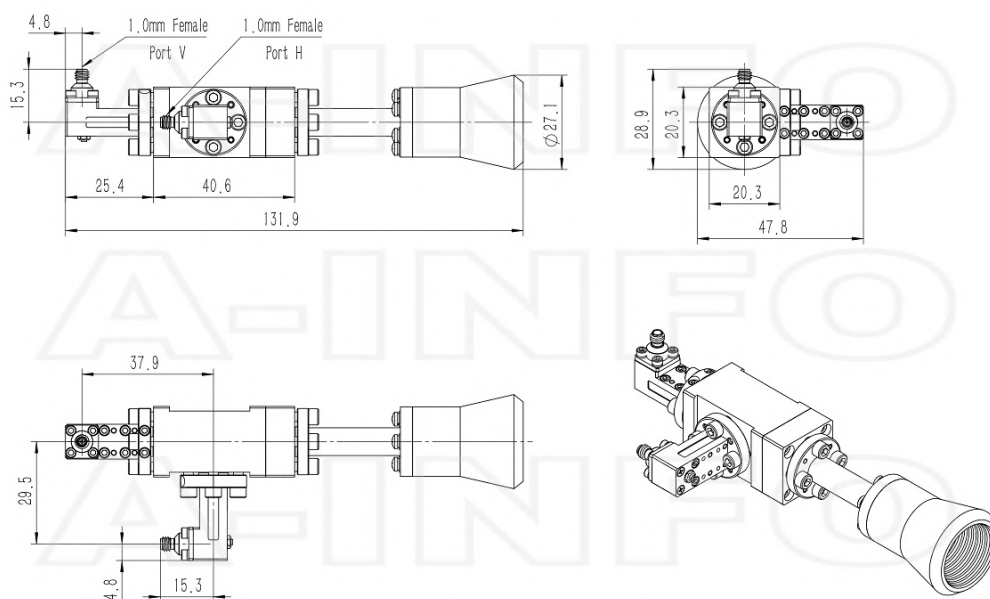


Additional Information

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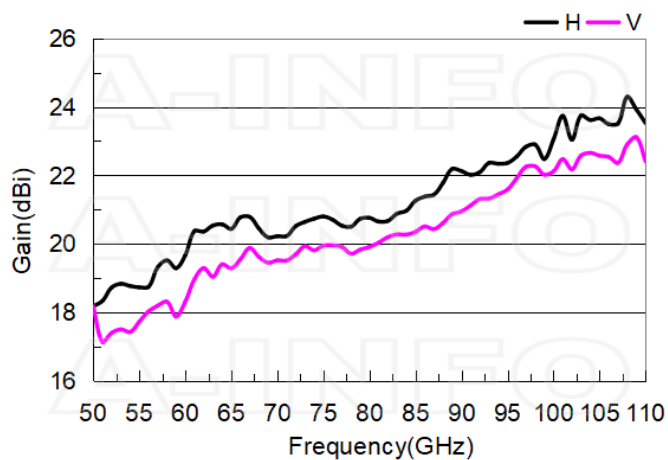
Outline Drawing

1.0mm-Female Output (P/N: LB-CH-15-20-T88-C-1.0F)

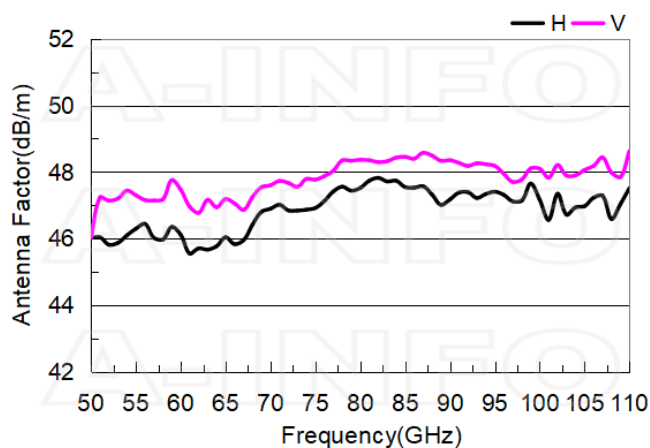


Typical Test Results

Gain



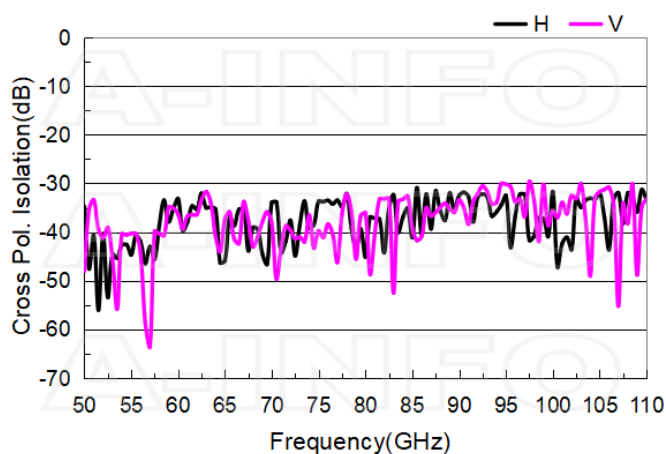
Antenna Factor



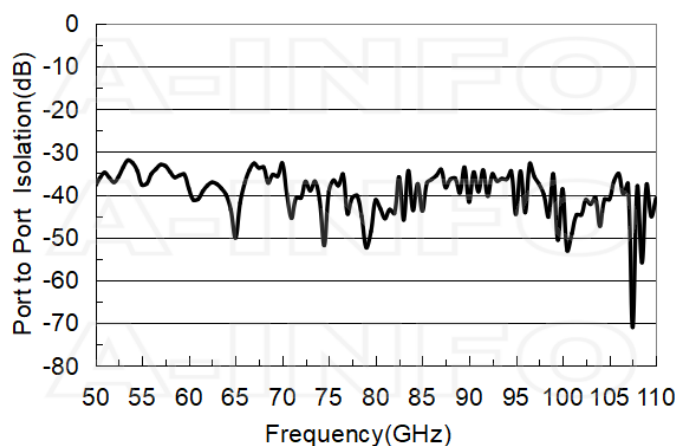
Antenna Factor (Table)

Frequency(GHz)	Vertical		Horizontal	
	Gain(dBi)	Antenna Factor(dB/m)	Gain(dBi)	Antenna Factor(dB/m)
50.0	18.17	46.02	18.17	46.02
55.0	17.72	47.30	18.72	46.29
60.0	18.31	47.46	19.67	46.11
65.0	19.28	47.19	20.43	46.03
70.0	19.51	47.60	20.22	46.89
75.0	19.94	47.77	20.79	46.92
80.0	19.91	48.36	20.75	47.52
85.0	20.35	48.45	21.25	47.54
90.0	20.95	48.35	22.12	47.17
95.0	21.58	48.18	22.36	47.40
100.0	22.11	48.10	23.05	47.16
105.0	22.58	48.06	23.66	46.97
110.0	22.41	48.63	23.53	47.51

Cross Polarization Isolation

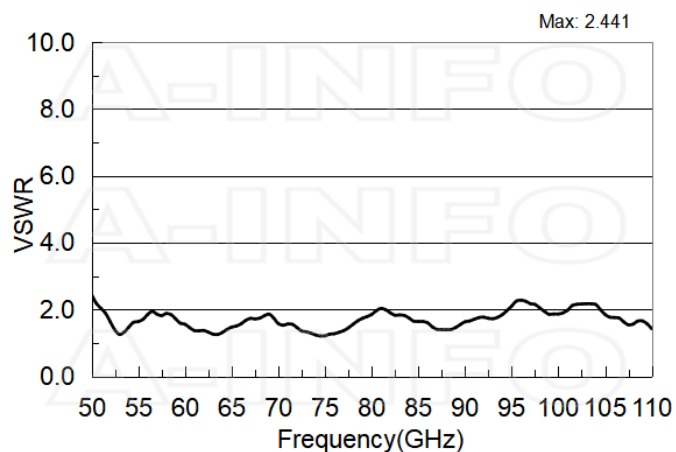


Port to Port Isolation

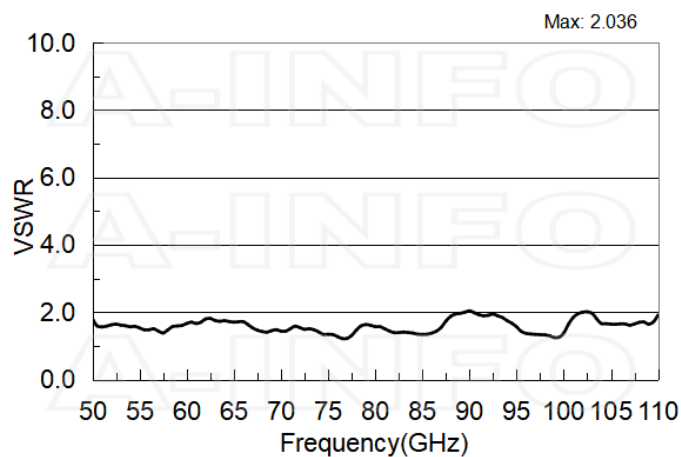


VSWR

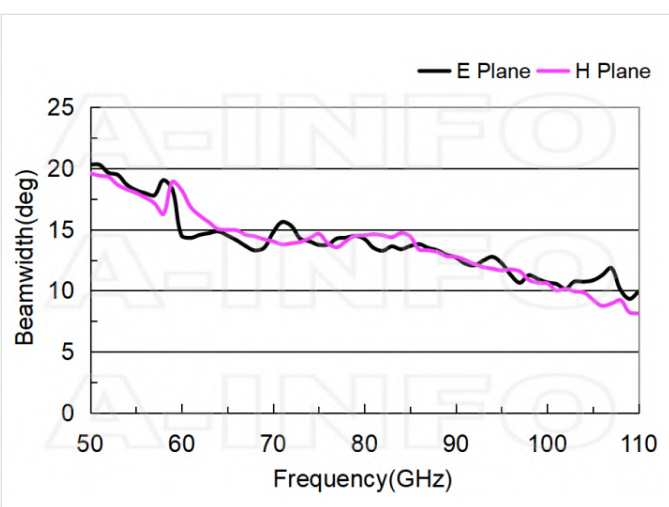
Port-H



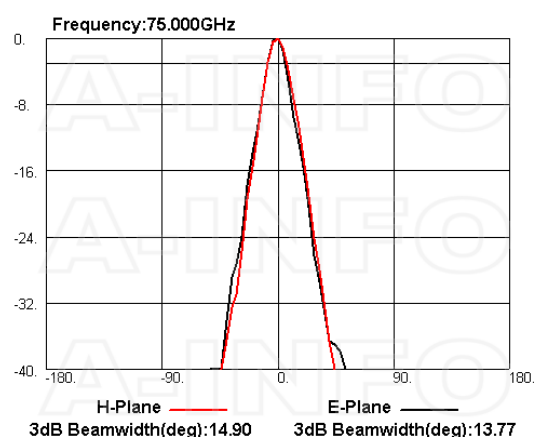
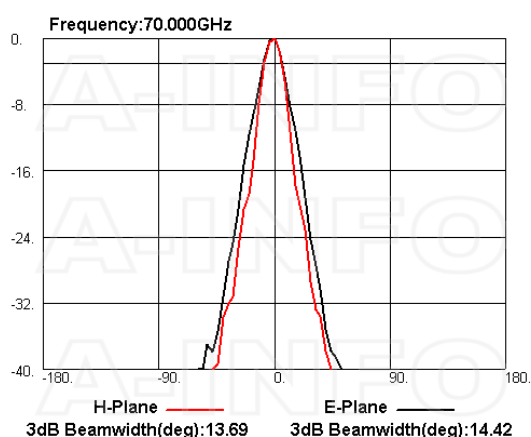
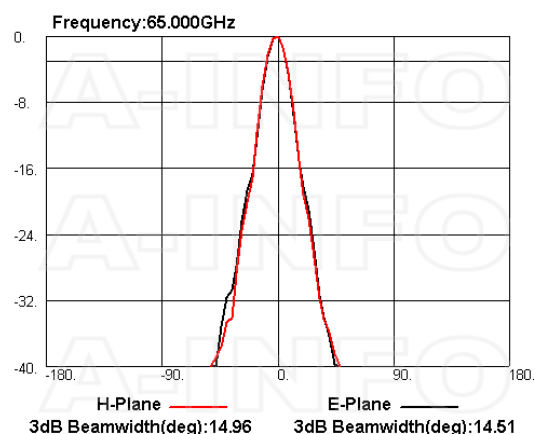
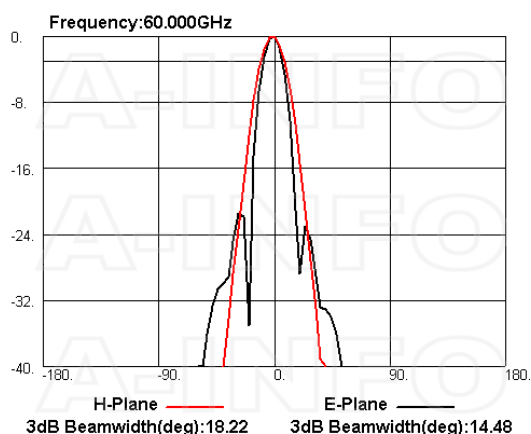
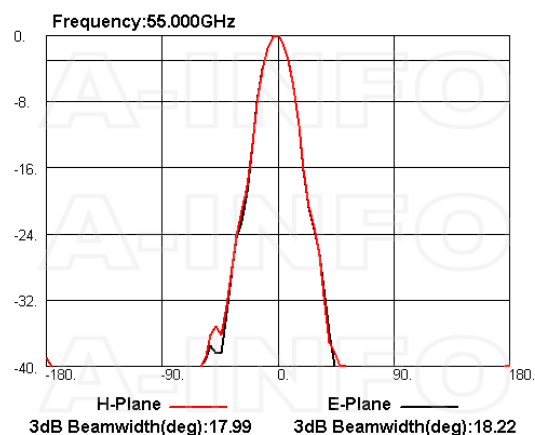
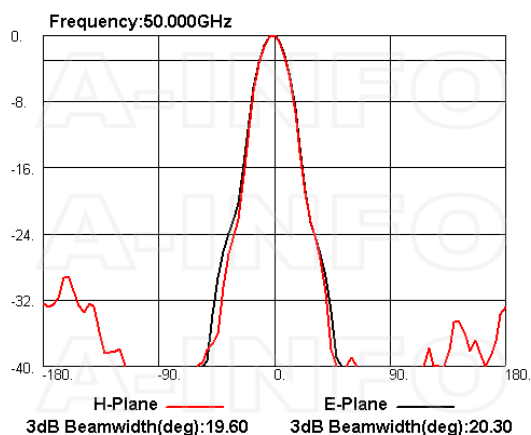
Port-V

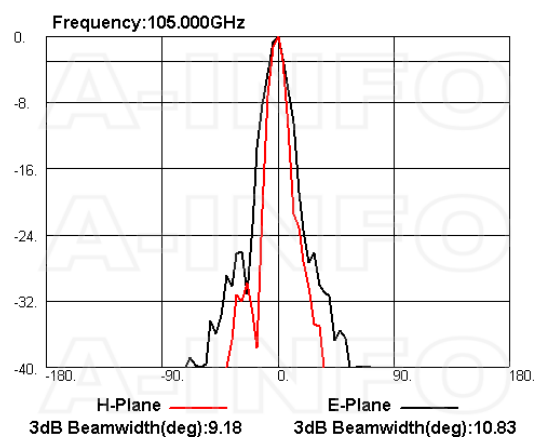
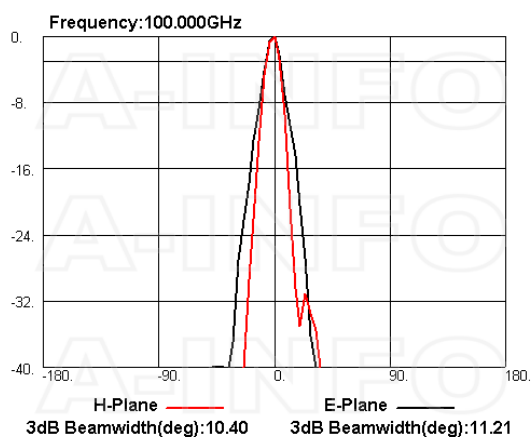
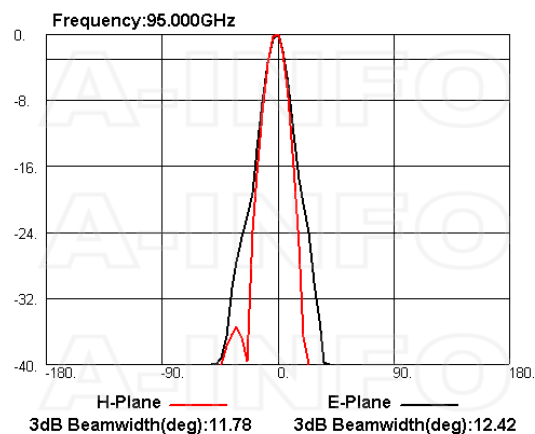
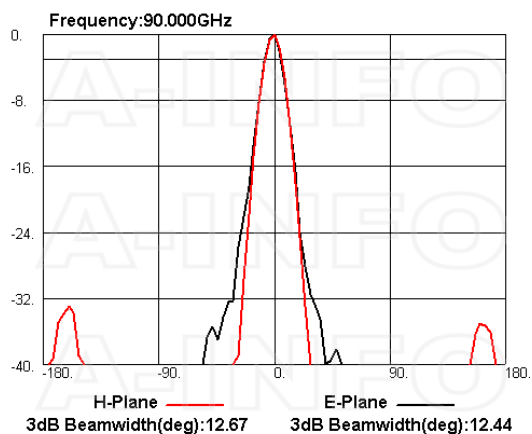
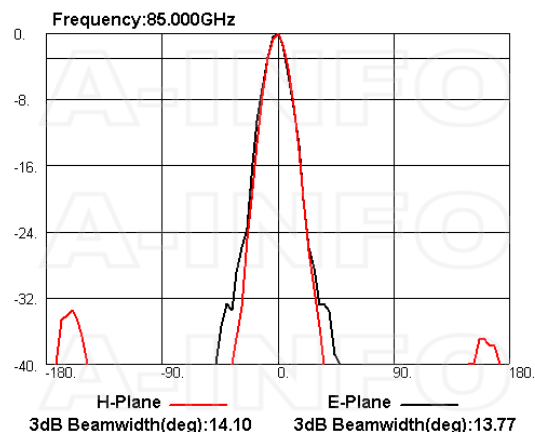
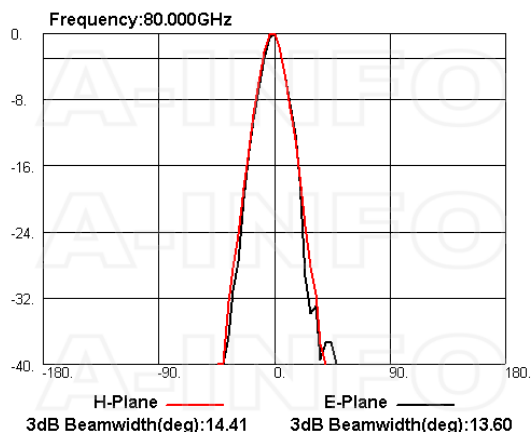


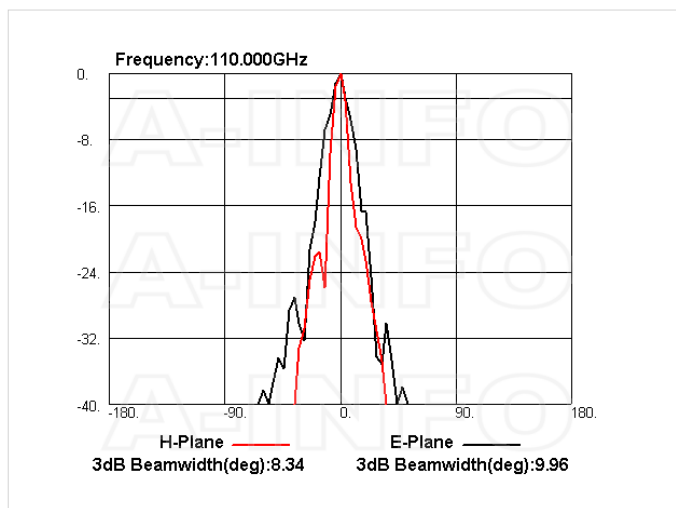
Beamwidth



Pattern 1







Similar Products



LB-CH-15-20-T02-C-1.0F Dual Linear Polarization Corrugated Conical Horn Antenna 50-75GHz 20dB Gain 1.0mm Female



LB-CH-15-20-T06-C-1.0F Dual Linear Polarization Corrugated Conical Horn Antenna 50-66GHz 20dB Gain 1.0mm Female



LB-CH-15-20-T16-C-1.0F Dual Linear Polarization Corrugated Conical Horn Antenna 54-71GHz 20dB Gain 1.0mm Female



LB-CH-15-20-T26-C-1.0F Dual Linear Polarization Corrugated Conical Horn Antenna 58-75GHz 20dB Gain 1.0mm Female



LB-CH-15-20-T88-A Dual Linear Polarization Corrugated Conical Horn Antenna 50-110GHz 20dB Gain Rectangular Waveguide Interface



About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-ch-15-20-t88-c-1-0f-dual-linear-polarization-corrugated-conical-horn-antenna-50-110-ghz-20db-1-0mm-female Data subject to change without notice. © A-INFO INC. 2024. 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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