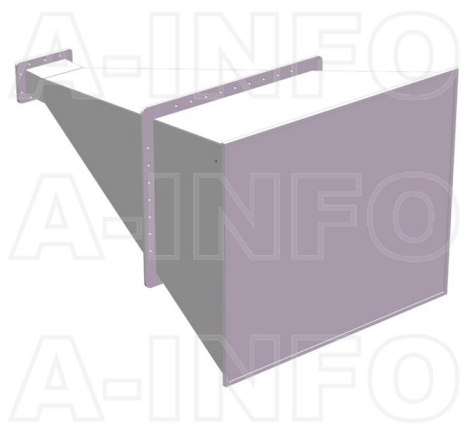




LB-430-20-ASPO Standard Gain Horn Antenna 1.7-2.6GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 1.7GHz to 2.6GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-430-20-ASPO
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Description

Standard Gain Horn Antenna LB-430-20-ASPO, operating from 1.7 to 2.6GHz with a nominal 20dB gain and low VSWR 1.15:1 with FDP22 output. The model LB-430-20-ASPO has uniform gain through its frequency span, providing efficient performance characteristics and directionality. Constructed of lightweight corrosion-resistant aluminum, the horn comes with a specially designed weatherproof radome which provides excellent protection against the rain and dust but has very little loss across the full operating frequency band. 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

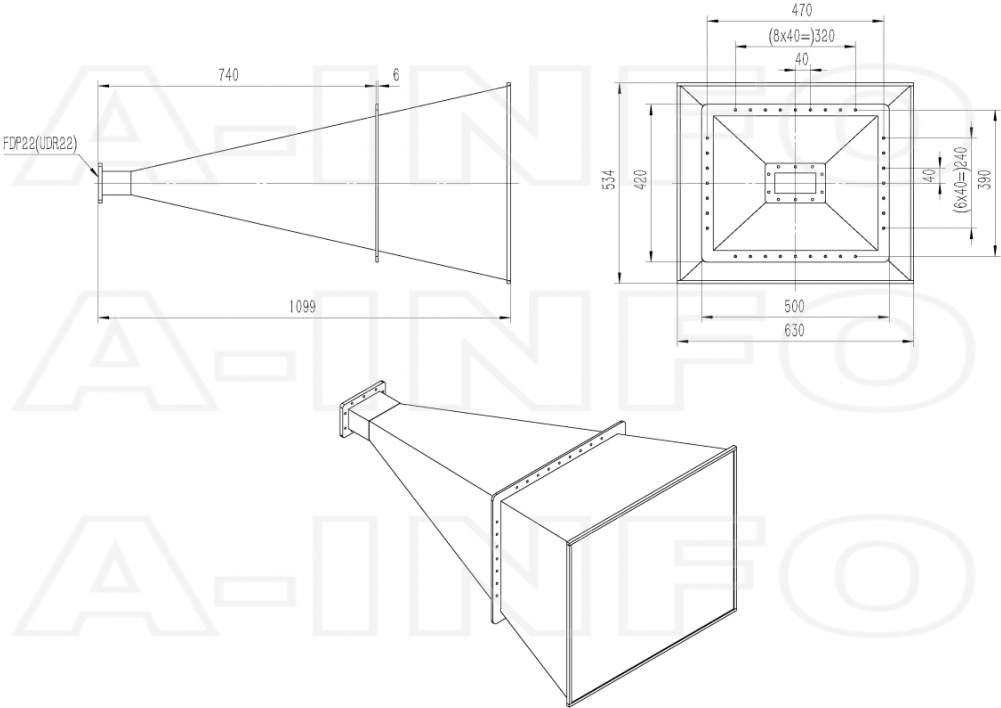
Electrical Specification		Interface	
Frequency, Min (GHz)	1.7	Output Type	Waveguide
Frequency, Max (GHz)	2.6	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR430	Flange Designation	FDP22(UDR22)
Gain, Typ (dBi)	20	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	16	Body Material	Al
3dB Beamwidth, H-Plane, Typ (Deg.)	18	Finish	Chemical Conversion Coating, Gray Paint
Cross Pol. Isolation, Typ (dB)	40	Size, W (mm)	630
VSWR, Typ	1.15:1	Size, H (mm)	534
		Size, L (mm)	1099
		Weight, (kg)	13.6

Additional Information

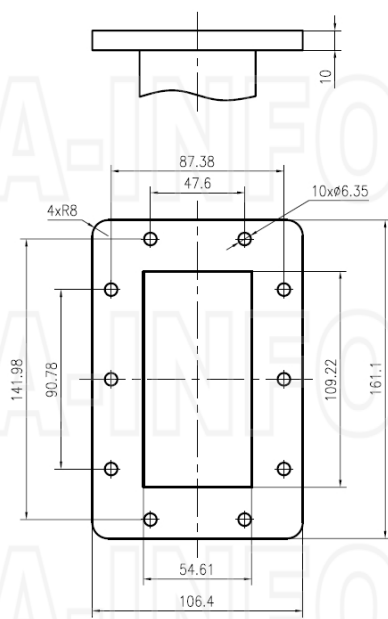
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP22 Output with Radome (Option, P/N: LB-430-20-ASPO, Outdoor Application)



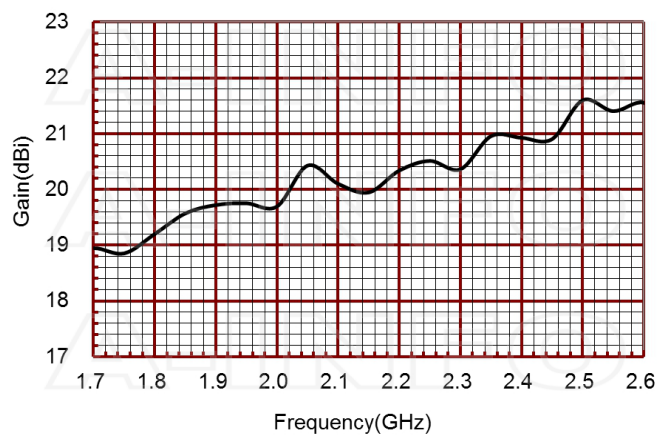
Flange Drawing



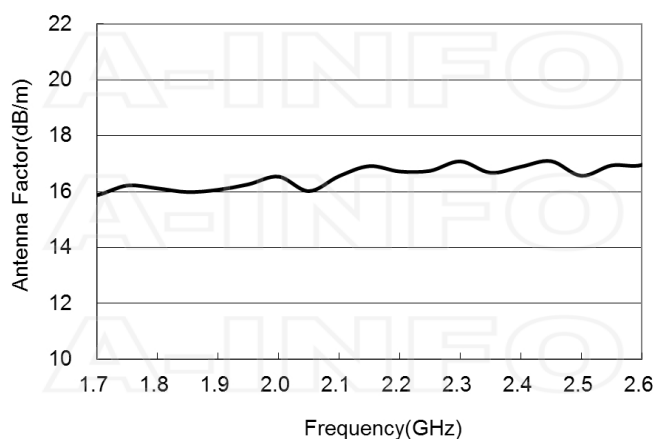
FDP22

Typical Test Results

Gain



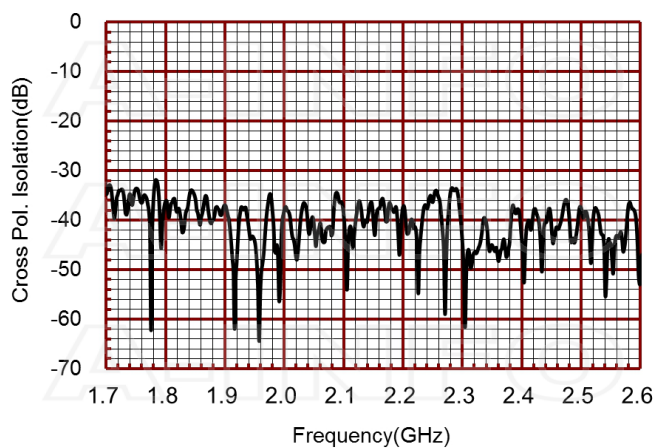
Antenna Factor



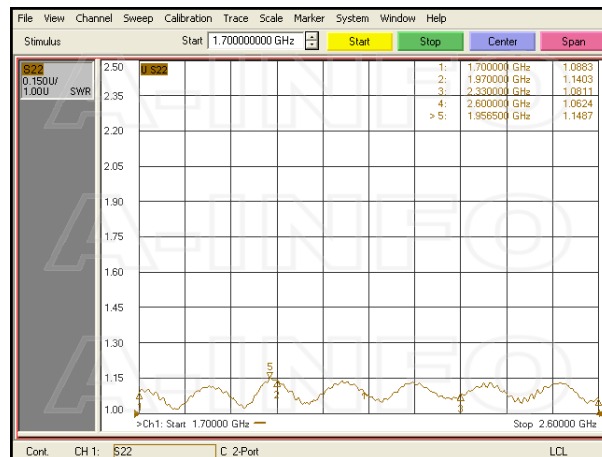
Antenna Factor (Table)

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)		Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
1.70	18.95	15.87		2.20	20.34	16.72
1.75	18.85	16.22		2.25	20.51	16.74
1.80	19.20	16.12		2.30	20.36	17.08
1.85	19.57	15.98		2.35	20.96	16.68
1.90	19.72	16.07		2.40	20.93	16.89
1.95	19.75	16.26		2.45	20.90	17.09
2.00	19.69	16.54		2.50	21.60	16.57
2.05	20.43	16.02		2.55	21.40	16.94
2.10	20.10	16.55		2.60	21.55	16.96
2.15	19.95	16.91				

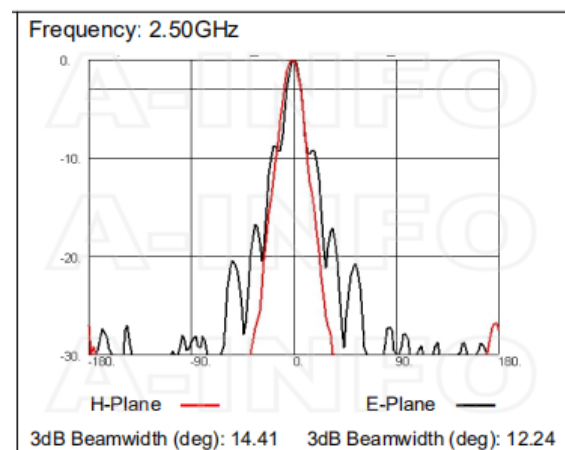
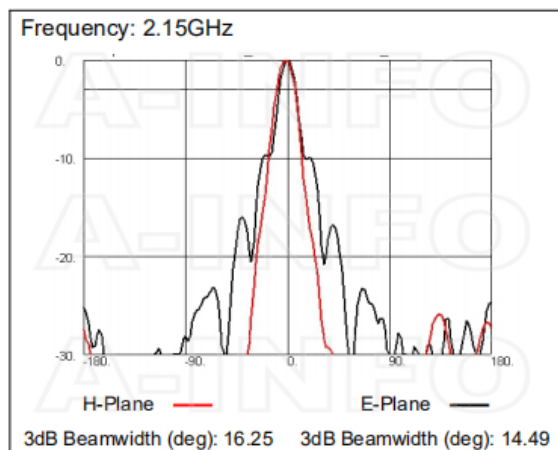
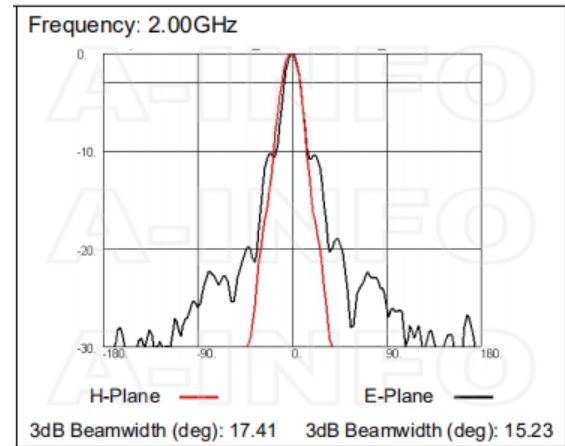
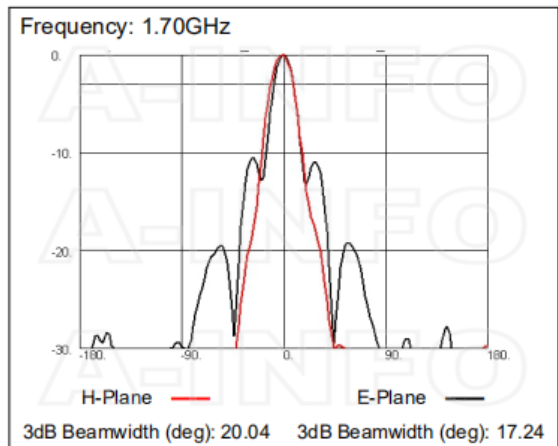
Cross Polarization Isolation

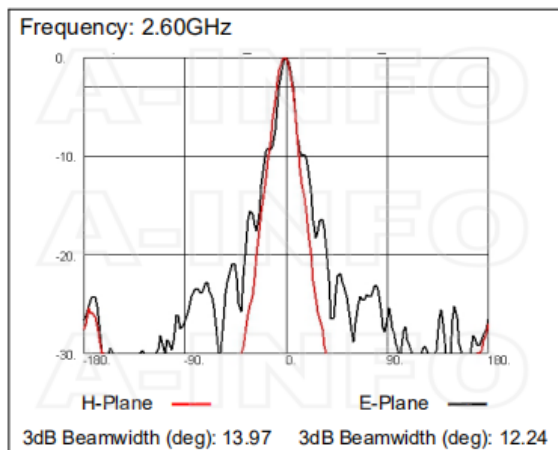


VSWR



Pattern





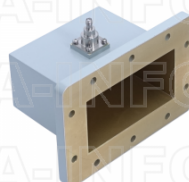
Related Products



430WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 1.7-2.6GHz WR430 to N Type Female



430WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 1.7-2.6GHz WR430 to N Type Male



430WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 1.7-2.6GHz WR430 to SMA Female



430WCASM Right Angle Rectangular Waveguide to Coaxial Adapter 1.7-2.6GHz WR430 to SMA Male



430WCA7/16 Right Angle Rectangular Waveguide to Coaxial Adapter 1.7-2.6GHz WR430 to 7/16 DIN Female



430WECAN Endlaunch Rectangular Waveguide to Coaxial Adapter 1.7-2.6GHz WR430 to N Type Female



430WECAS Endlaunch Rectangular Waveguide to Coaxial Adapter 1.7-2.6GHz WR430 to SMA Female

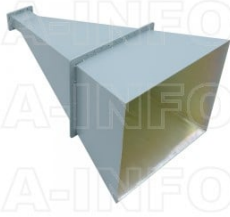


430WECAK Endlaunch Rectangular Waveguide to Coaxial Adapter 1.7-2.6GHz WR430 to 2.92mm-Female

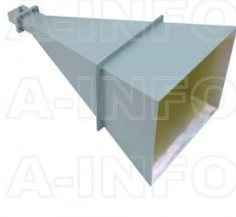


M6x35 Hex_Pack WR430-WR340 Flange Assembly Pack

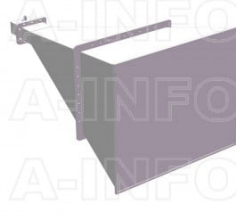
Similar Products



LB-430-20-A Standard Gain Horn Antenna 1.7-2.6GHz 20dB Gain Rectangular Waveguide Interface



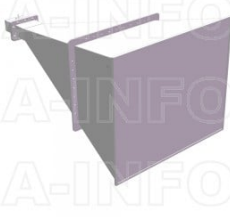
LB-430-20-C-NF Standard Gain Horn Antenna 1.7-2.6GHz 20dB Gain N Type Female



LB-430-20-C-NFSPO Standard Gain Horn Antenna 1.7-2.6GHz 20dB Gain N Type Female



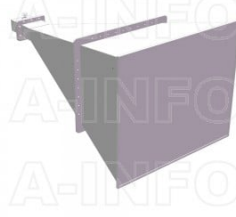
LB-430-20-C-SF Standard Gain Horn Antenna 1.7-2.6GHz 20dB Gain SMA Female



LB-430-20-C-SFSPO Standard Gain Horn Antenna 1.7-2.6GHz 20dB Gain SMA Female



LB-430-20-C-7/16F Standard Gain Horn Antenna 1.7-2.6GHz 20dB Gain 7/16(DIN) Female



LB-430-20-C-7/16FSPO Standard Gain Horn Antenna 1.7-2.6GHz 20dB Gain 7/16(DIN) Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-430-20-aspo-standard-gain-horn-antenna-1-7-2-6-ghz-20db-gain-fdp22 Data subject to change without notice. © A-INFO INC. 2023. All Rights Reserved	● Contact Us Address:dd 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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