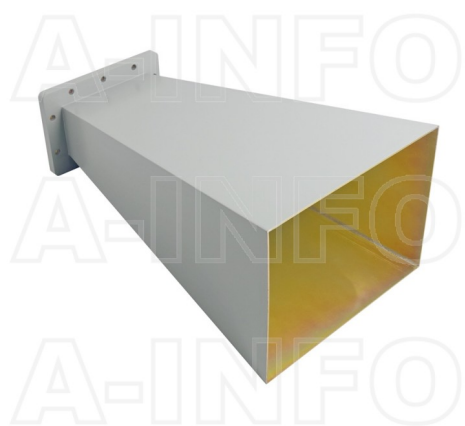


**LB-510-10-A Standard Gain Horn Antenna 1.45-2.2GHz 10dB Gain Rectangular Waveguide Interface**

Standard Gain Horn Antenna Operating From 1.45GHz to 2.2GHz With a Nominal 10dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-510-10-A
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Description

Standard Gain Horn Antenna LB-510-10-A, operating from 1.45 to 2.2GHz with a nominal 10dB gain and low VSWR 1.15:1 with FDP18 output. The model LB-510-10-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

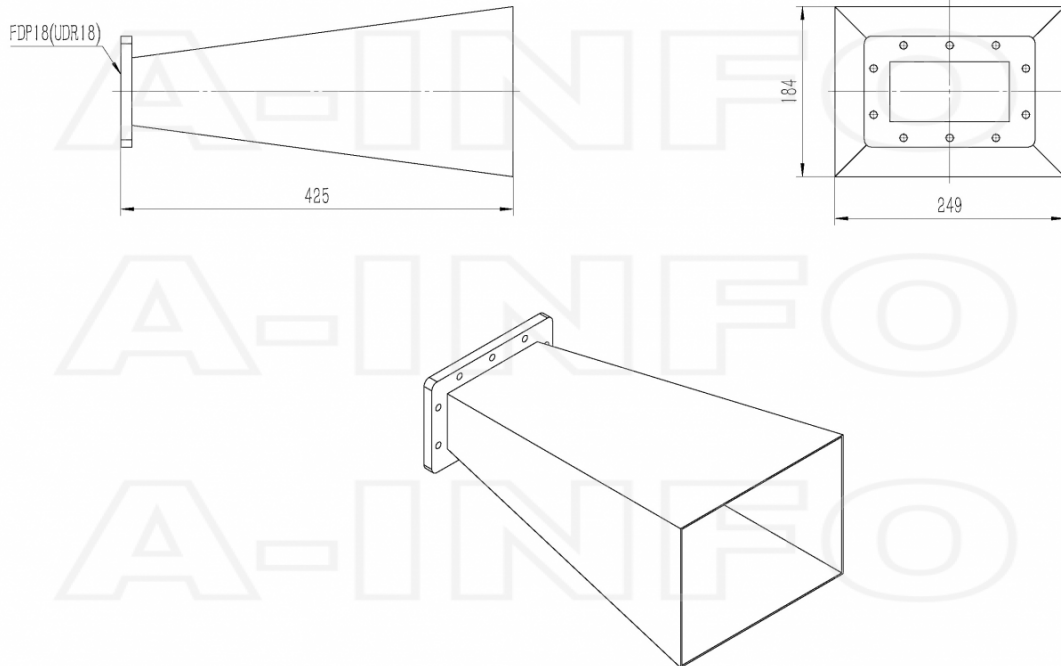
Electrical Specification		Interface	
Frequency, Min (GHz)	1.45	Output Type	Waveguide
Frequency, Max (GHz)	2.2	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR510	Flange Designation	FDP18(UDR18)
Gain, Typ (dBi)	10	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	45	Body Material	Al
3dB Beamwidth, H-Plane, Typ (Deg.)	43	Finish	Chemical Conversion Coating, Gray Paint
Cross Pol. Isolation, Typ (dB)	35	Size, W (mm)	249
VSWR, Typ	1.15:1	Size, H (mm)	184
		Size, L (mm)	425
		Weight, (kg)	2

Additional Information

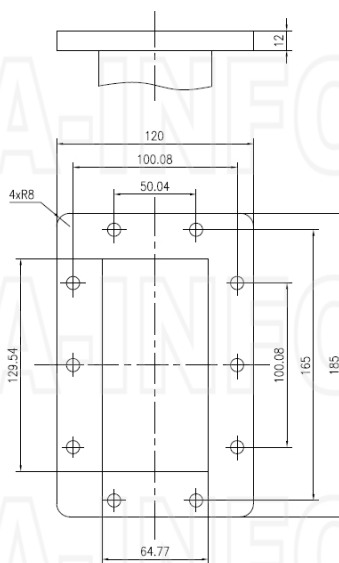
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP18 Output (P/N: LB-510-10-A)



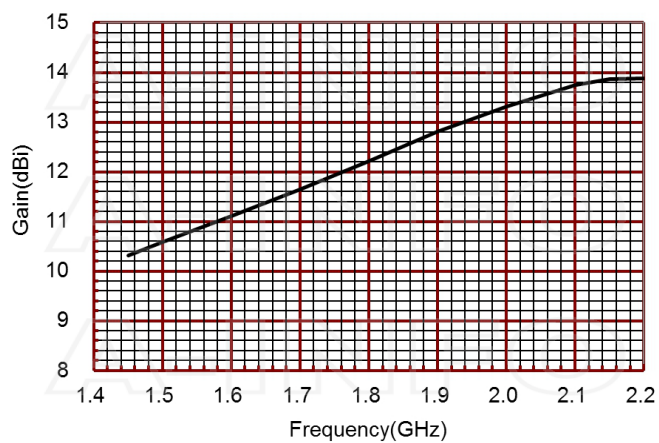
Flange Drawing



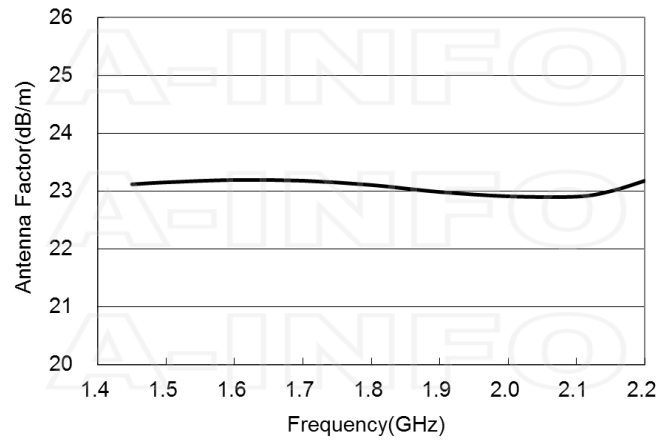
FDP18

Typical Test Results

Gain



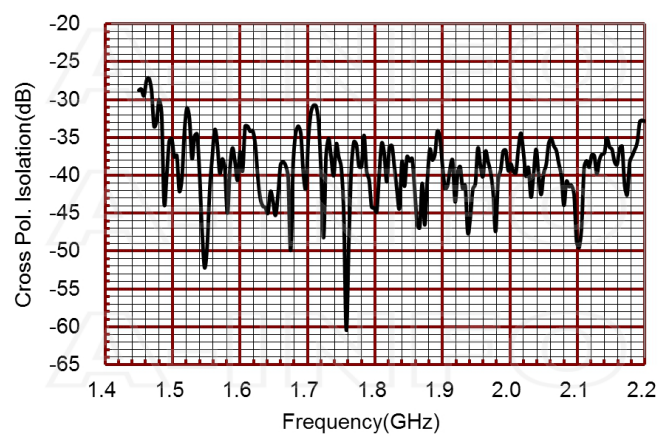
Antenna Factor



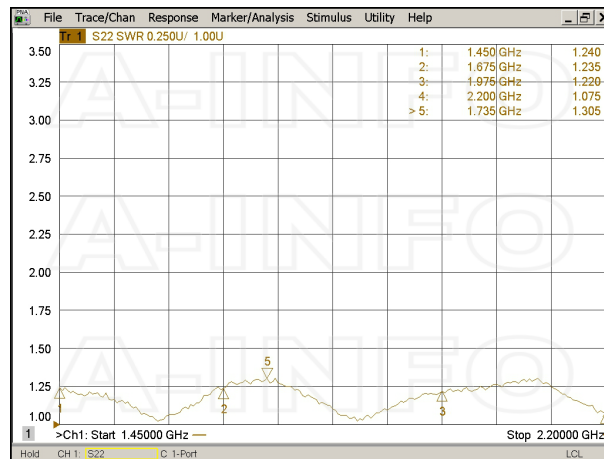
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
1.45	10.32	23.12
1.50	10.58	23.15
1.60	11.10	23.19
1.70	11.64	23.18
1.80	12.21	23.11
1.90	12.80	22.99
2.00	13.32	22.91
2.10	13.75	22.90
2.15	13.86	23.00
2.20	13.88	23.18

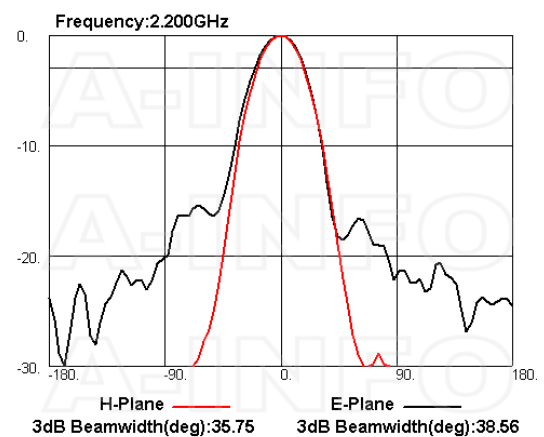
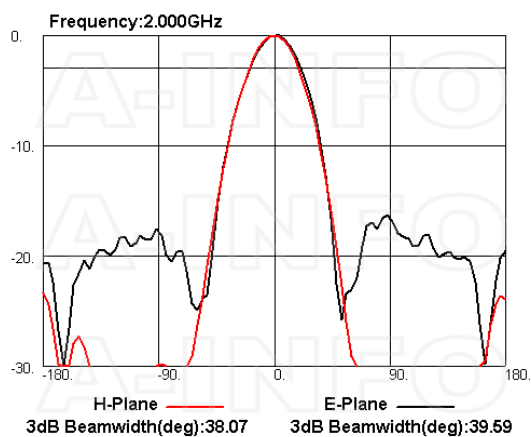
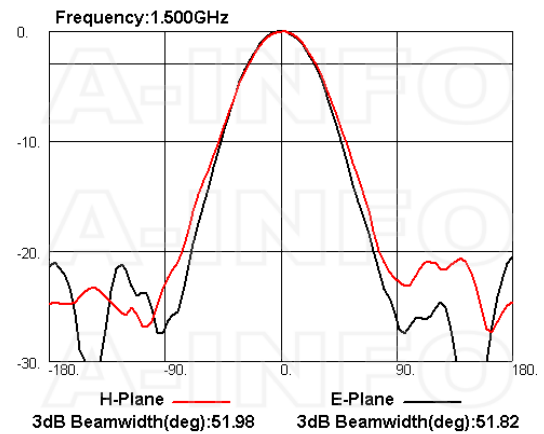
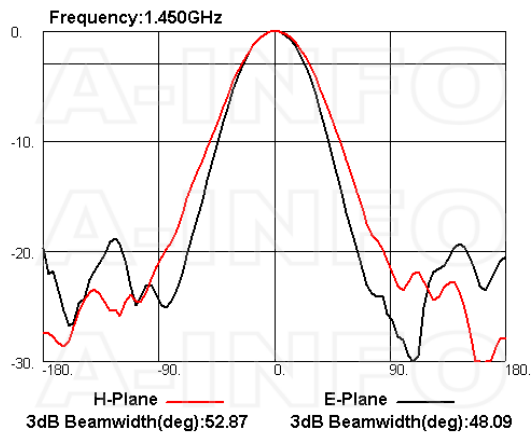
Cross Polarization Isolation



VSWR



Pattern



Related Products



510WCAN Right Angle
Rectangular Waveguide to
Coaxial Adapter 1.45-2.2GHz
WR510 to N Type Female



510WCANM Right Angle
Rectangular Waveguide to
Coaxial Adapter 1.45-2.2GHz
WR510 to N Type Male



510WCAS Right Angle
Rectangular Waveguide to
Coaxial Adapter 1.45-2.2GHz
WR510 to SMA Female



510WCASM Right Angle
Rectangular Waveguide to
Coaxial Adapter 1.45-2.2GHz
WR510 to SMA Male



510WCA7/16 Right Angle
Rectangular Waveguide to
Coaxial Adapter 1.45-2.2GHz
WR510 to 7/16 DIN Female

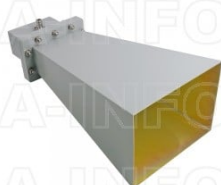


M8x40 Hex_Pack WR510-WR650
Flange Assembly Pack

Similar Products



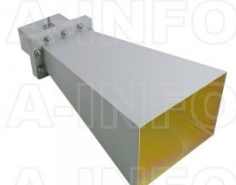
LB-510-10-ASPO Standard Gain
Horn Antenna 1.45-2.2GHz 10dB
Gain Rectangular Waveguide
Interface



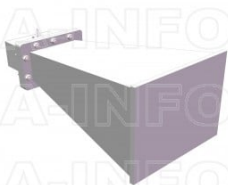
LB-510-10-C-NF Standard Gain
Horn Antenna 1.45-2.2GHz 10dB
Gain N Type Female



LB-510-10-C-NFSPO Standard
Gain Horn Antenna 1.45-2.2GHz
10dB Gain N Type Female



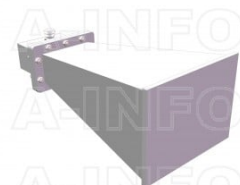
LB-510-10-C-SF Standard Gain
Horn Antenna 1.45-2.2GHz 10dB
Gain SMA Female



LB-510-10-C-SFSPO Standard
Gain Horn Antenna 1.45-2.2GHz
10dB Gain SMA Female



LB-510-10-C-7/16F Standard
Gain Horn Antenna 1.45-2.2GHz
10dB Gain 7/16(DIN) Female



LB-510-10-C-7/16FSPO Standard
Gain Horn Antenna 1.45-2.2GHz
10dB Gain 7/16(DIN) Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-510-10-a-standard-gain-horn-antenna-1-45-2-2-ghz-10db-gain-fdp18 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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