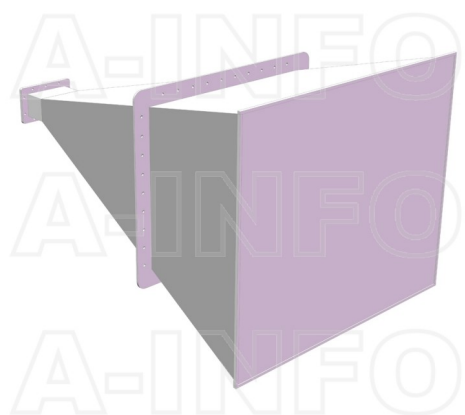




LB-650-20-ASPO Standard Gain Horn Antenna 1.12-1.7GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 1.12GHz to 1.7GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-650-20-ASPO
-----	----------------

Description

Standard Gain Horn Antenna LB-650-20-ASPO, operating from 1.12 to 1.7GHz with a nominal 20dB gain and low VSWR 1.15:1 with FDP14 output. The model LB-650-20-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

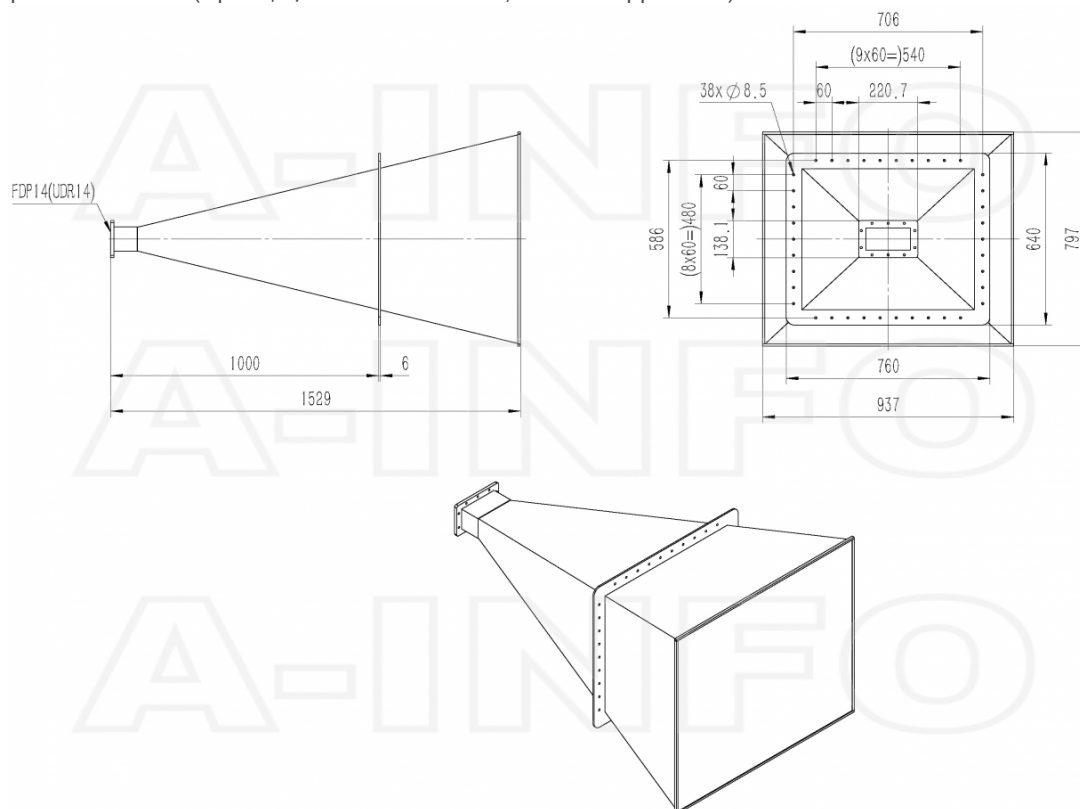
Electrical Specification		Interface	
Frequency, Min (GHz)	1.12	Output Type	Waveguide
Frequency, Max (GHz)	1.7	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR650	Flange Designation	FDP14(UDR14)
Gain, Typ (dBi)	20	Mechanical Specification	
Polarization	Linear	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)	35	Size, W (mm)	937
VSWR, Typ	1.15:1	Size, H (mm)	797
		Size, L (mm)	1529
		Weight, (kg)	30

Additional Information

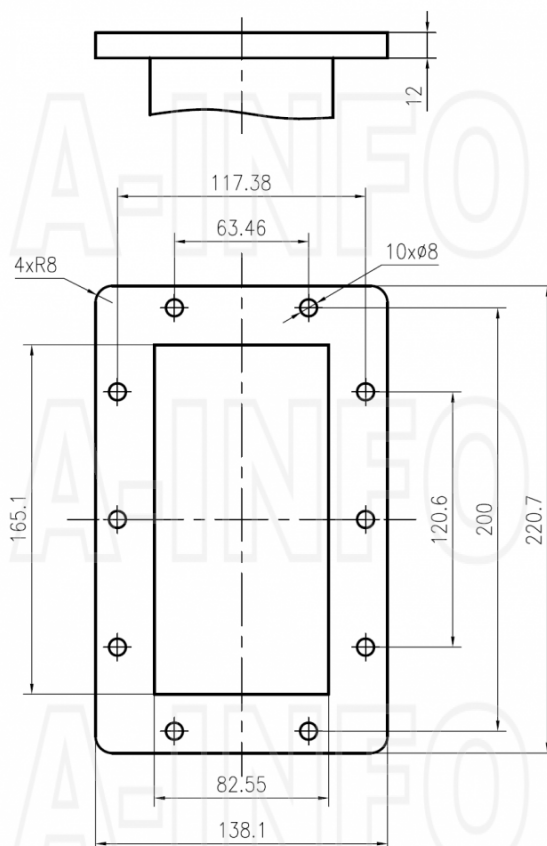
Application	Outdoor, Waterproof and Dustproof, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
-------------	--	--------------	---

Outline Drawing

FDP14 Output with Radome (Option, P/N: LB-650-20-ASPO, Outdoor Application)



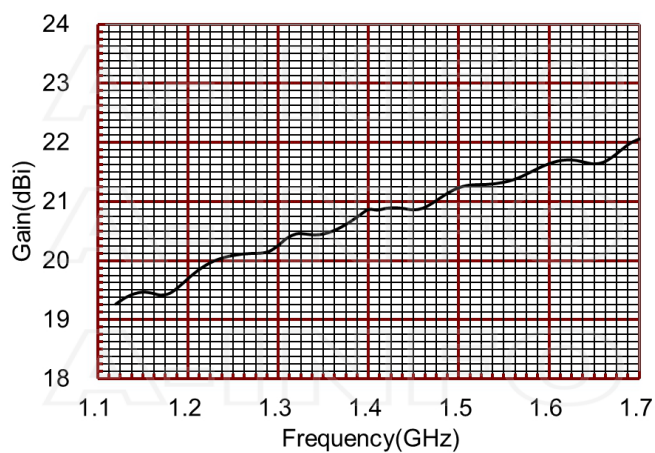
Flange Drawing



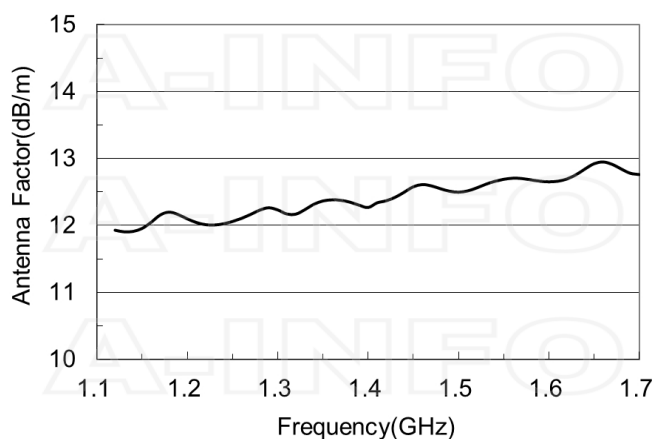
FDP14

Typical Test Results

Gain



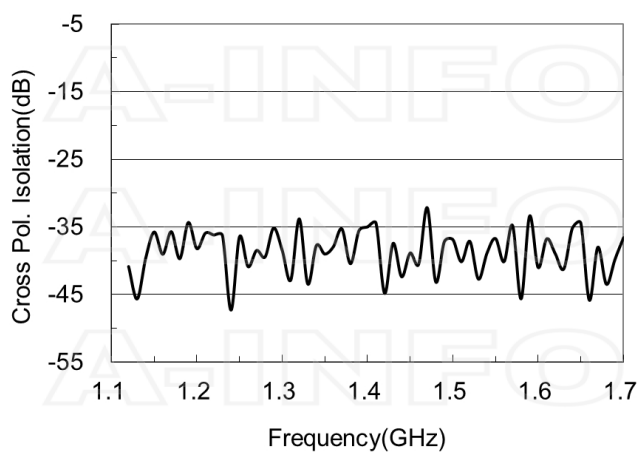
Antenna Factor



Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
1.12	19.26	11.93
1.20	19.69	12.10
1.30	20.26	12.23
1.40	20.86	12.27
1.50	21.23	12.50
1.60	21.64	12.65
1.70	22.06	12.76

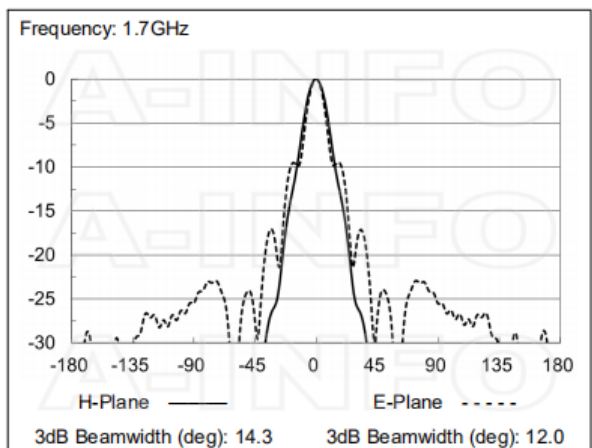
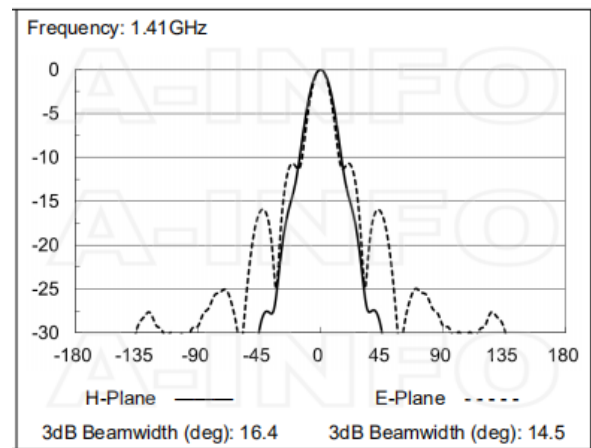
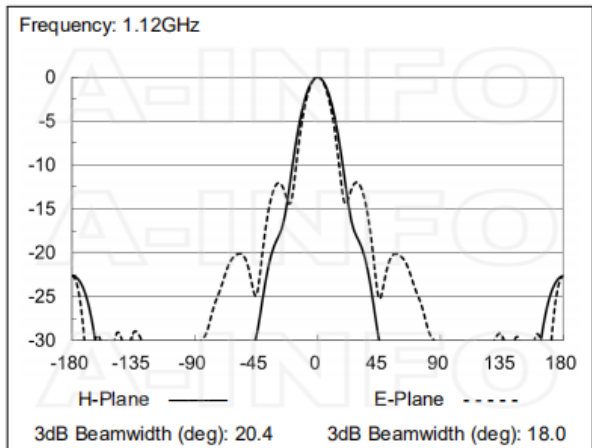
Cross Polarization Isolation



VSWR



Pattern



Related Products



650WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 1.12-1.7GHz WR650 to N Type Female



650WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 1.12-1.7GHz WR650 to N Type Male



650WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 1.12-1.7GHz WR650 to SMA Female



650WCA7/16 Right Angle Rectangular Waveguide to Coaxial Adapter 1.12-1.7GHz WR650 to 7/16 DIN Female

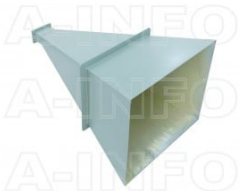


650WECAN Endlaunch Rectangular Waveguide to Coaxial Adapter 1.12-1.7GHz WR650 to N Type Female

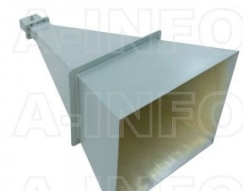


M8x40 Hex_Pack WR510-WR650 Flange Assembly Pack

Similar Products



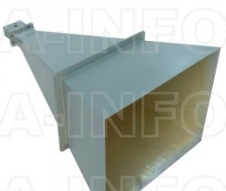
LB-650-20-A Standard Gain Horn Antenna 1.12-1.7GHz 20dB Gain Rectangular Waveguide Interface



LB-650-20-C-NF Standard Gain Horn Antenna 1.12-1.7GHz 20dB Gain N Type Female



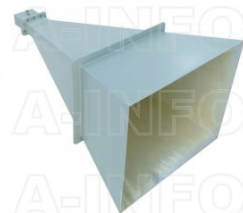
LB-650-20-C-NFSPO Standard Gain Horn Antenna 1.12-1.7GHz 20dB Gain N Type Female



LB-650-20-C-SF Standard Gain Horn Antenna 1.12-1.7GHz 20dB Gain SMA Female



LB-650-20-C-SFSPO Standard Gain Horn Antenna 1.12-1.7GHz 20dB Gain SMA Female



LB-650-20-C-7/16F Standard Gain Horn Antenna 1.12-1.7GHz 20dB Gain 7/16(DIN) Female



LB-650-20-C-7/16FSPO Standard Gain Horn Antenna 1.12-1.7GHz 20dB Gain 7/16(DIN) Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-650-20-aspo-standard-gain-horn-antenna-1-12-1-7-ghz-20db-gain-fdp14 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
---	--	---