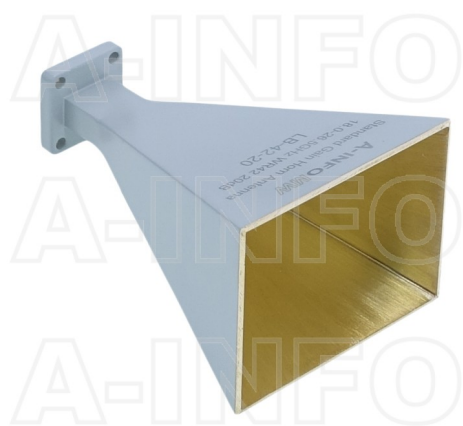


**LB-42-20-A Standard Gain Horn Antenna 18-26.5GHz 20dB Gain
Rectangular Waveguide Interface**

Standard Gain Horn Antenna Operating From 18GHz to 26.5GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-42-20-A
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Description

Standard Gain Horn Antenna LB-42-20-A, operating from 18 to 26.5GHz with a nominal 20dB gain and low VSWR 1.15:1 with FBP220 output. The model LB-42-20-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

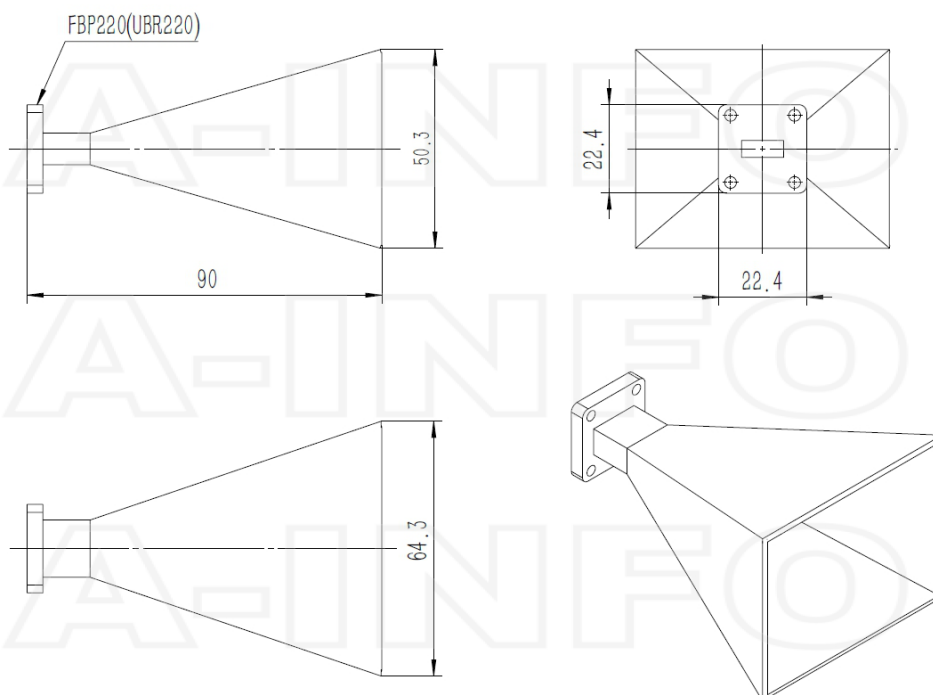
Electrical Specification		Interface	
Frequency, Min (GHz)	18	Output Type	Waveguide
Frequency, Max (GHz)	26.5	Flange Style	Square
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR42	Flange Designation	FBP220(UBR220)
Gain, Typ (dBi)	20	Connector Gender	N/A
Polarization	Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Typ (Deg.)	16	Figure	A Type
3dB Beamwidth, H-Plane, Typ (Deg.)	18	Body Material	Cu
Cross Pol. Isolation, Typ (dB)	35	Finish	Passivation, Gray Paint
VSWR, Typ	1.15:1	Size, W (mm)	64.3
		Size, H (mm)	50.3
		Size, L (mm)	90
		Weight, (kg)	0.15

Additional Information

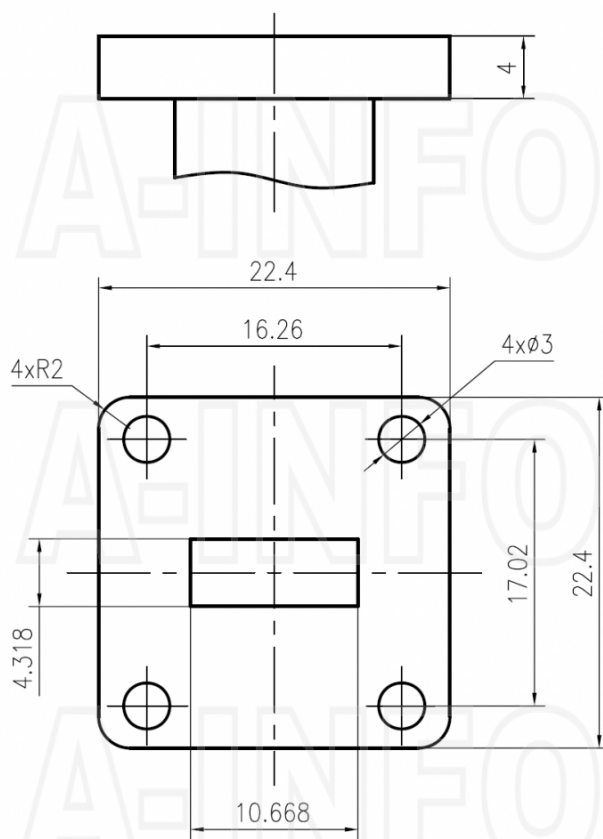
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FBP220 Output (P/N: LB-42-20-A)



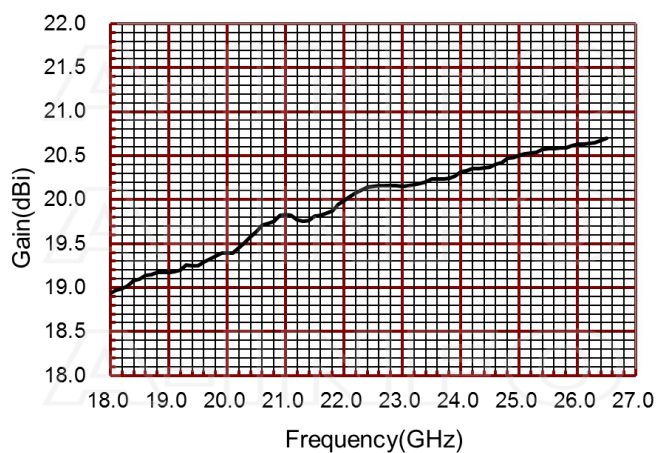
Flange Drawing



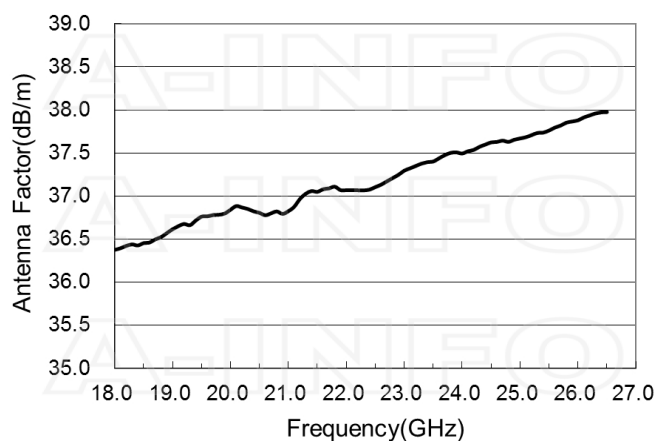
FBP220

Typical Test Results

Gain



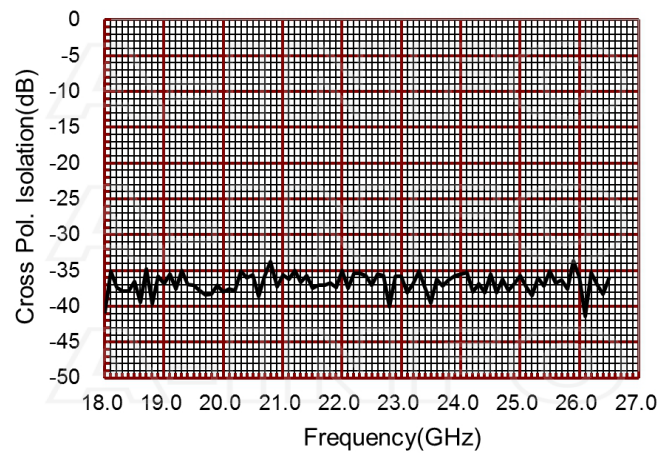
Antenna Factor



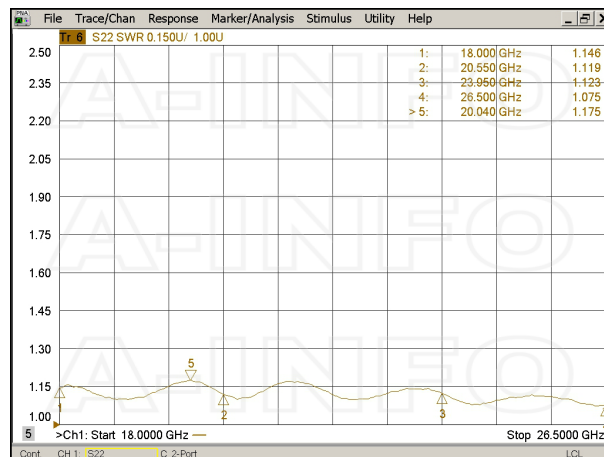
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
18.0	18.94	36.38
18.5	19.10	36.45
19.0	19.17	36.62
19.5	19.25	36.76
20.0	19.39	36.84
20.5	19.64	36.81
21.0	19.83	36.82
21.5	19.81	37.05
22.0	19.99	37.07
22.5	20.15	37.10
23.0	20.15	37.29
23.5	20.23	37.40
24.0	20.32	37.49
24.5	20.37	37.62
25.0	20.50	37.67
25.5	20.58	37.76
26.0	20.63	37.88
26.5	20.70	37.97

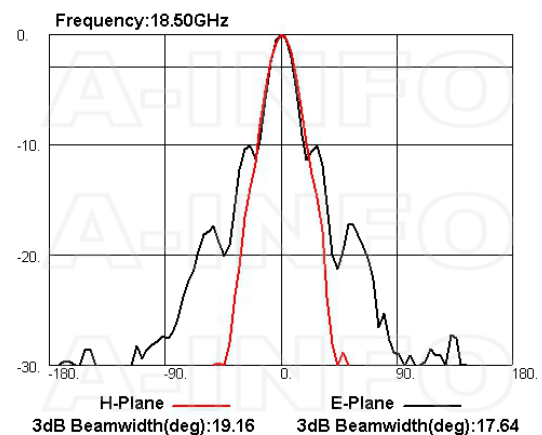
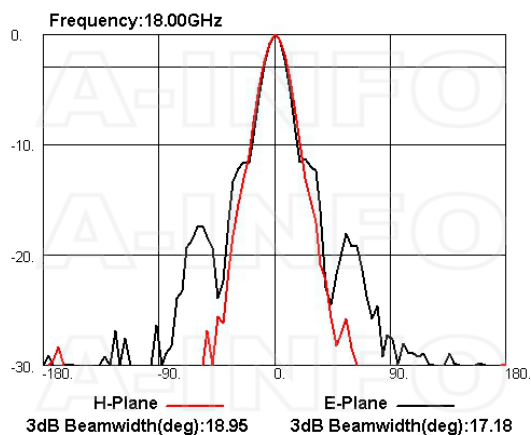
Cross Polarization Isolation

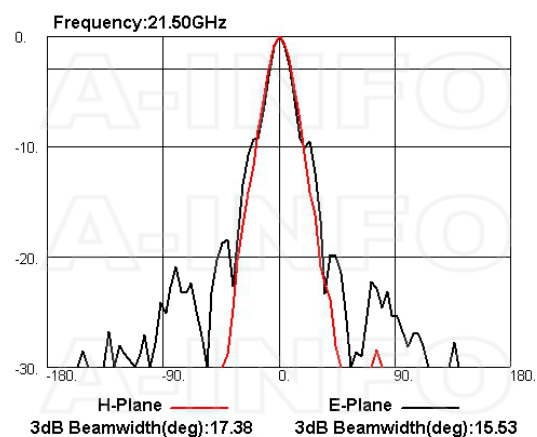
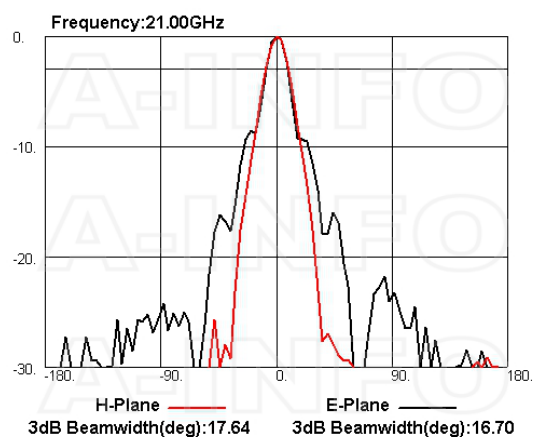
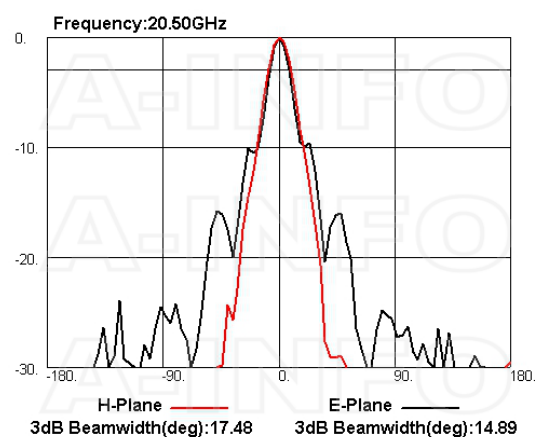
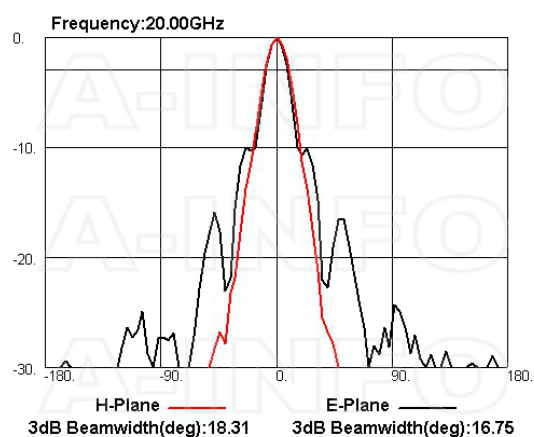
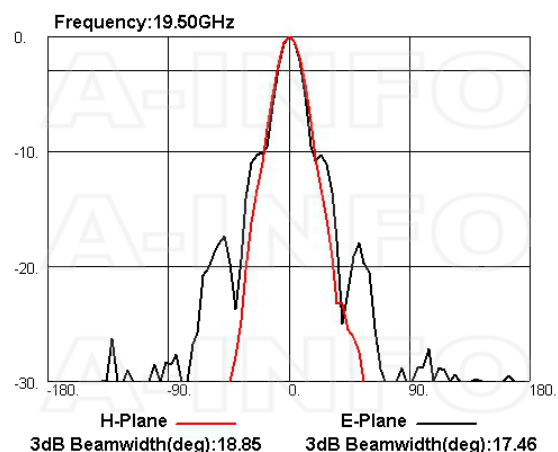
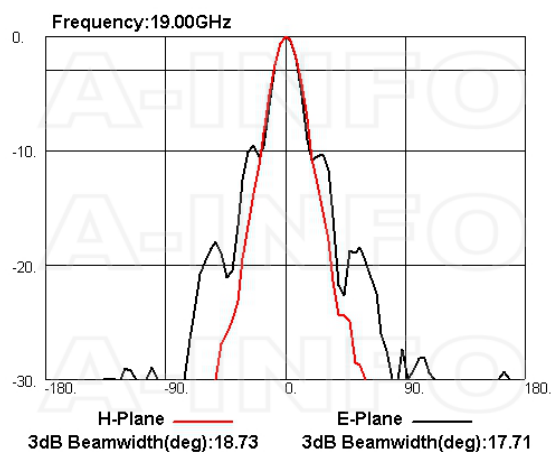


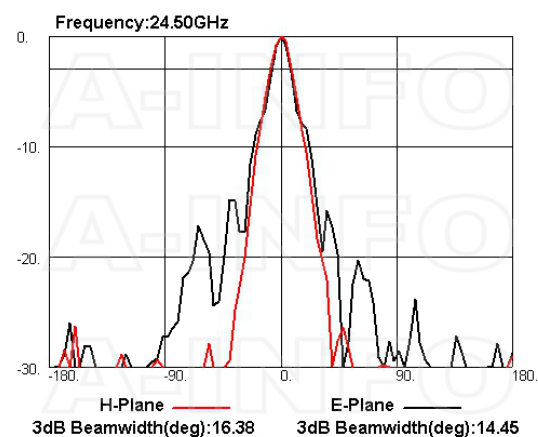
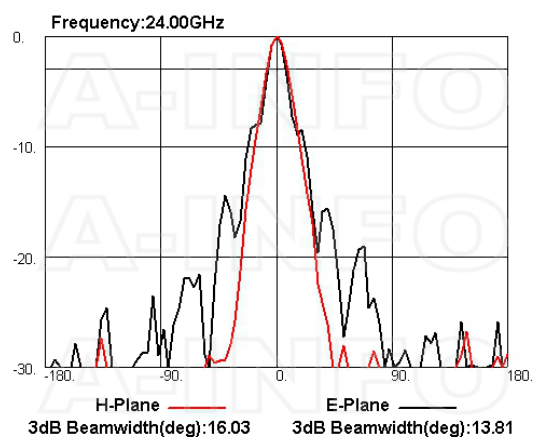
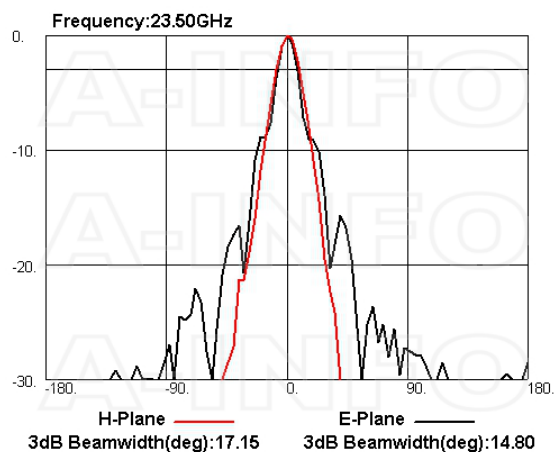
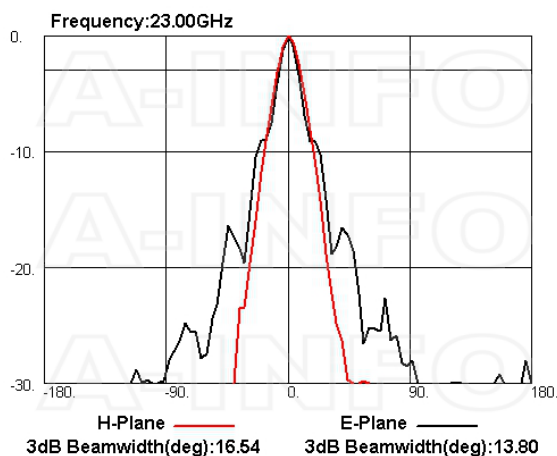
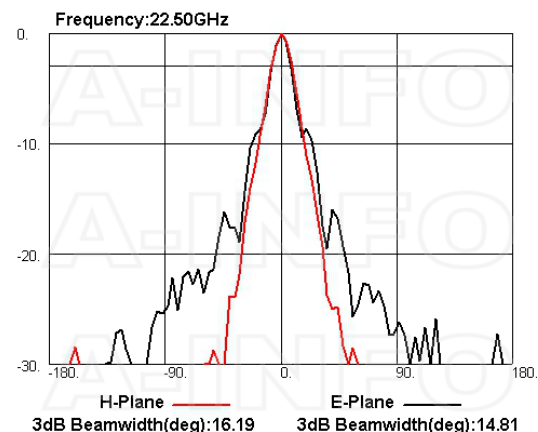
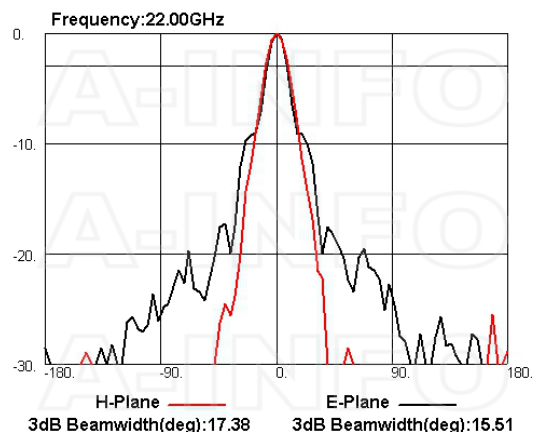
VSWR

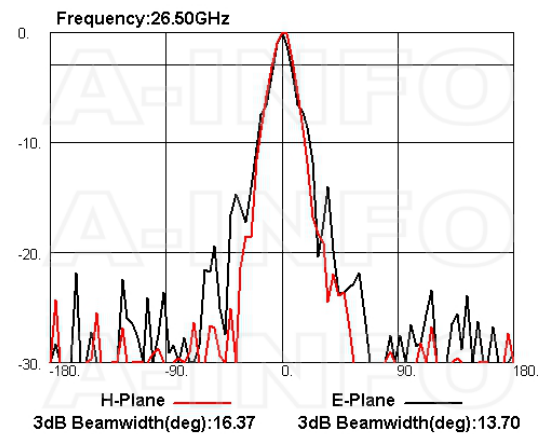
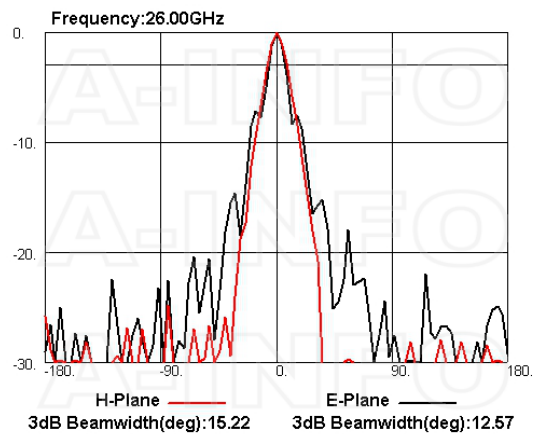
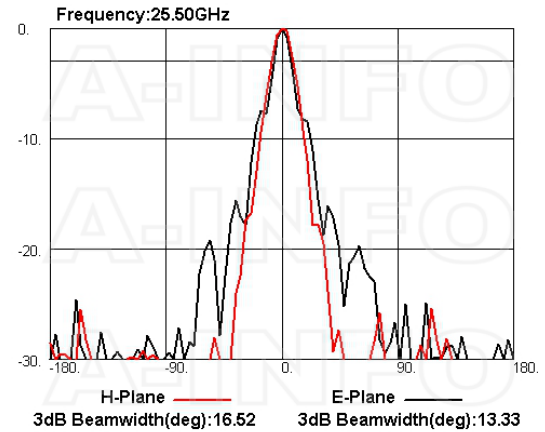
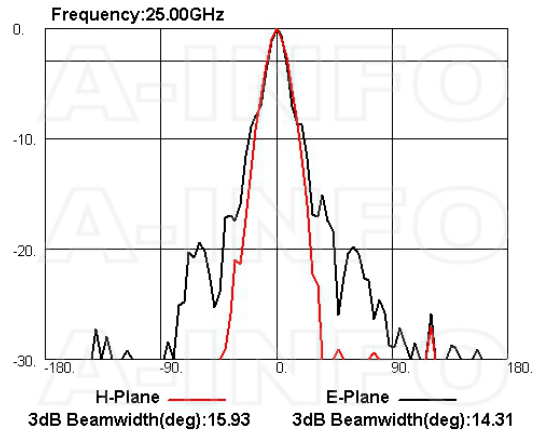


Pattern









Related Products



42WCAS_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to SMA Female



42WCASM_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to SMA Male



42WCA3.5_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to 3.5mm Female



42WCA3.5M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to 3.5mm Male



42WCAK_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to 2.92mm Female



42WCAKM_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to 2.92mm Male



42WCA2.4_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to 2.4mm Female



42WCA2.4M_Cu Right Angle Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to 2.4mm Male



42WECAS Endlaunch Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to SMA Female



42WECAS_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to SMA Female



42WECASM_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to SMA Male

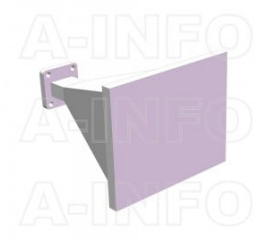


42WECAK_Cu Endlaunch Rectangular Waveguide to Coaxial Adapter 18-26.5GHz WR42 to 2.92mm Female



M3x14 Hex_Pack WR42- WR34 Flange Assembly Pack

Similar Products



LB-42-20-ASPO Standard Gain Horn Antenna 18-26.5GHz 20dB Gain Rectangular Waveguide Interface



LB-42-20-C-SF Standard Gain Horn Antenna 18-26.5GHz 20dB Gain SMA Female



LB-42-20-C-SFSPO Standard Gain Horn Antenna 18-26.5GHz 20dB Gain SMA Female



LB-42-20-C-KF Standard Gain Horn Antenna 18-26.5GHz 20dB Gain 2.92mm Female



LB-42-20-C-KFSPO Standard Gain
Horn Antenna 18-26.5GHz 20dB
Gain 2.92mm Female



LB-42-20-C-3.5F Standard Gain
Horn Antenna 18-26.5GHz 20dB
Gain 3.5mm Female



LB-42-20-C-3.5FSPO Standard
Gain Horn Antenna 18-26.5GHz
20dB Gain 3.5mm Female



LB-42-20-C-EKF Standard Gain
Horn Antenna 18-26.5GHz 20dB
Gain Endlaunch 2.92mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-42-20-a-standard-gain-horn-antenna-18-26-5-ghz-20db-gain-fbp220 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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