



LB-229-20-A Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 3.3GHz to 4.9GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-229-20-A
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Description

Standard Gain Horn Antenna LB-229-20-A, operating from 3.3 to 4.9GHz with a nominal 20dB gain and low VSWR 1.15:1 with FDP40 output. The model LB-229-20-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

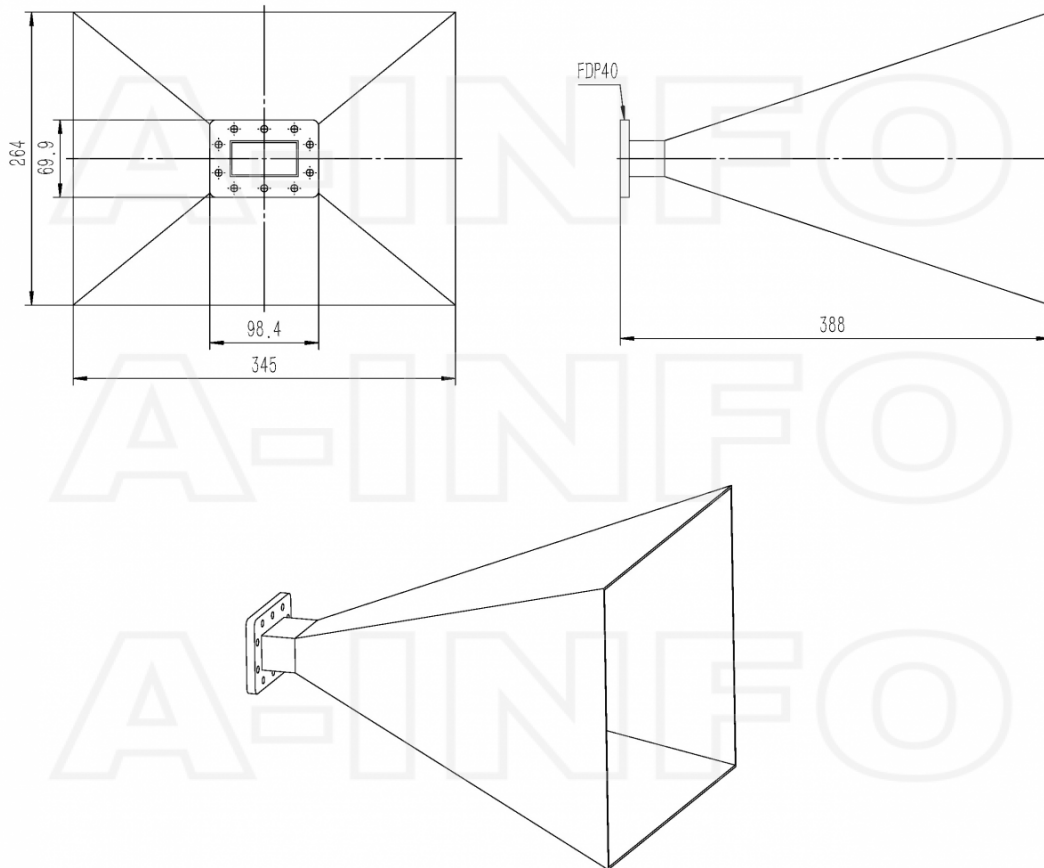
Electrical Specification		Interface	
Frequency, Min (GHz)	3.3	Output Type	Waveguide
Frequency, Max (GHz)	4.9	Flange Style	Rectangular
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR229	Flange Designation	FDP40(UDR40)
Gain, Typ (dBi)	20	Mechanical Specification	
Polarization	Linear	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)	345
VSWR, Typ	1.15:1	Size, H (mm)	264
		Size, L (mm)	388
		Weight, (kg)	1.7

Additional Information

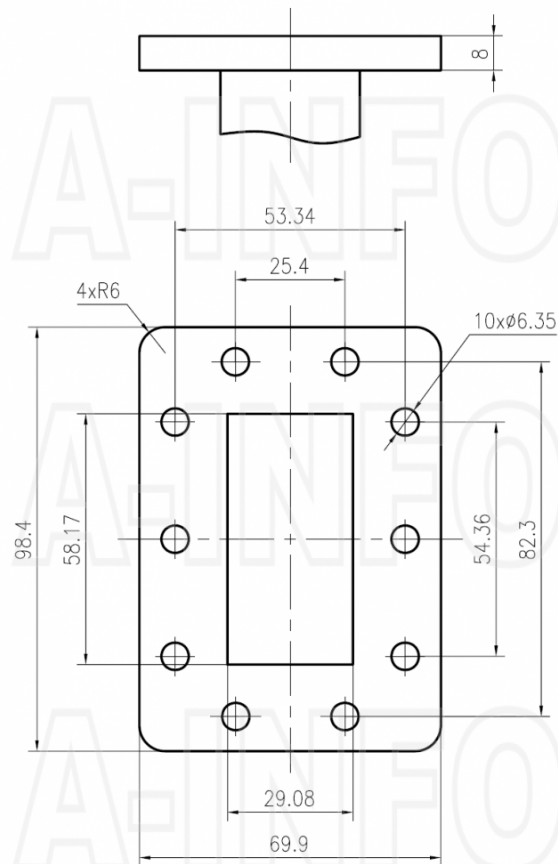
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FDP40 Output (P/N: LB-229-20-A)



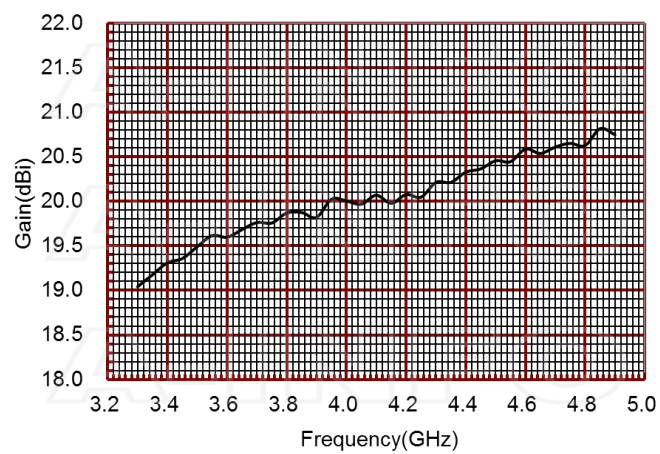
Flange Drawing



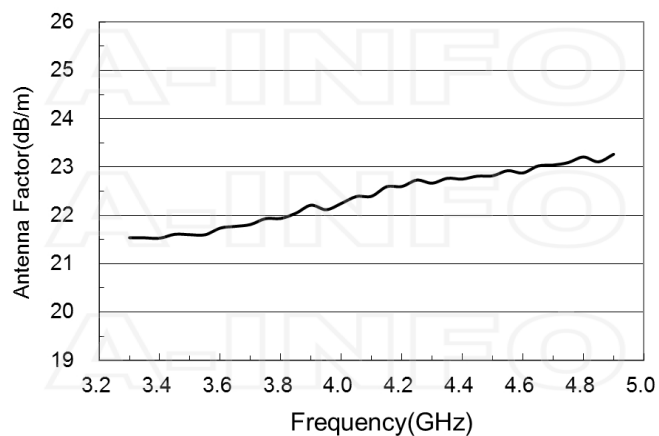
FDP40

Typical Test Results

Gain



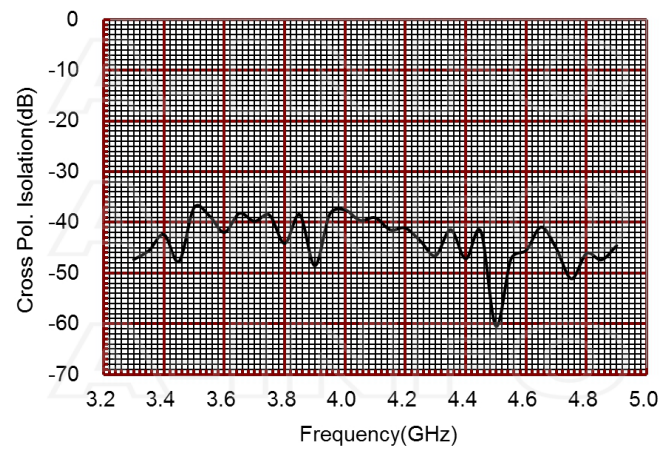
Antenna Factor



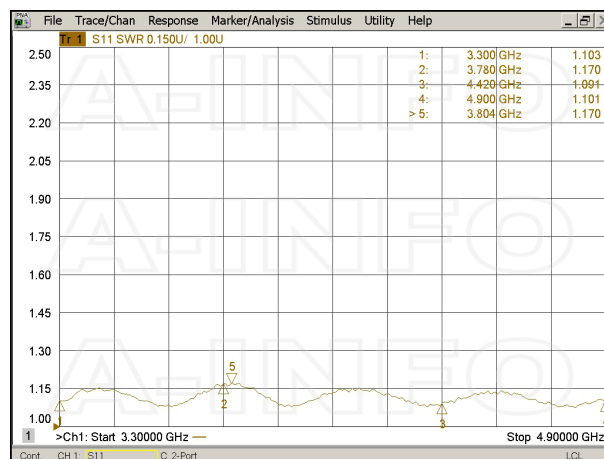
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
3.3	19.04	21.54
3.4	19.31	21.53
3.5	19.49	21.60
3.6	19.60	21.74
3.7	19.76	21.81
3.8	19.87	21.94
3.9	19.82	22.21
4.0	20.00	22.25
4.1	20.07	22.40
4.2	20.08	22.60
4.3	20.21	22.67
4.4	20.33	22.75
4.5	20.45	22.82
4.6	20.59	22.88
4.7	20.61	23.04
4.8	20.63	23.21
4.9	20.75	23.27

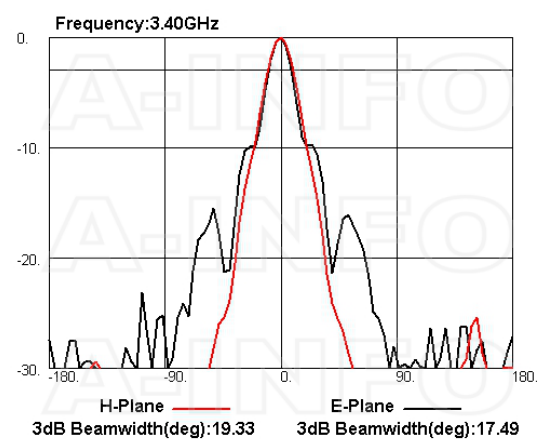
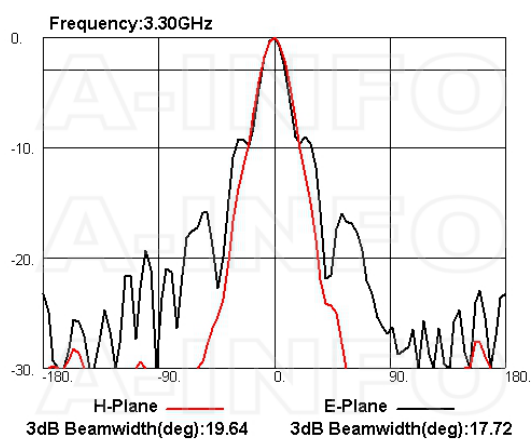
Cross Polarization Isolation

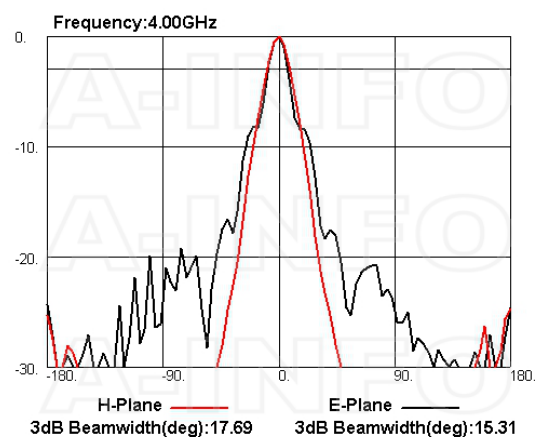
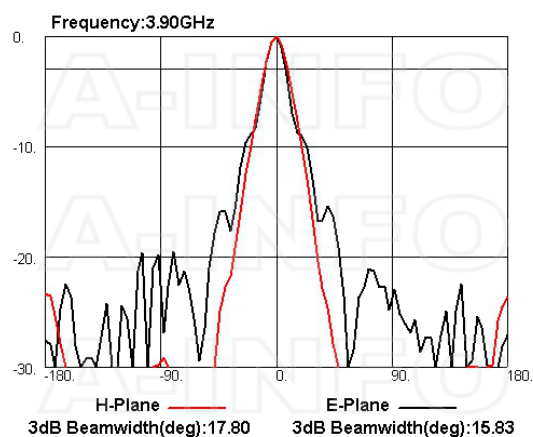
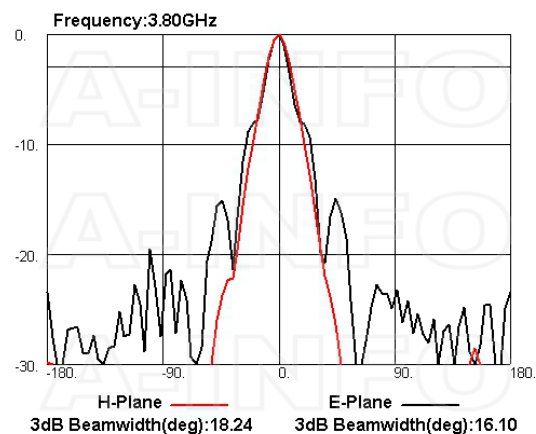
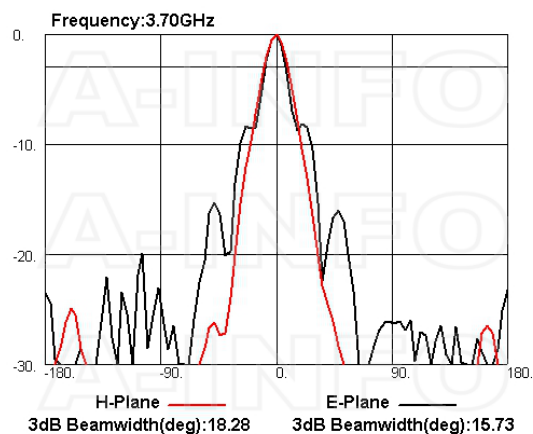
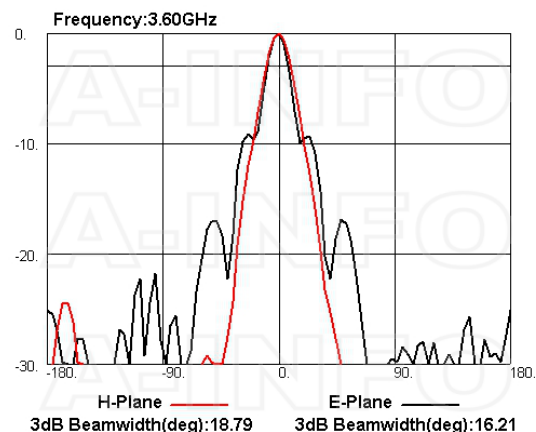
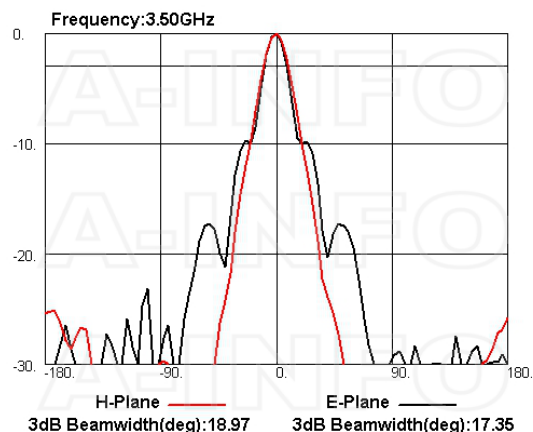


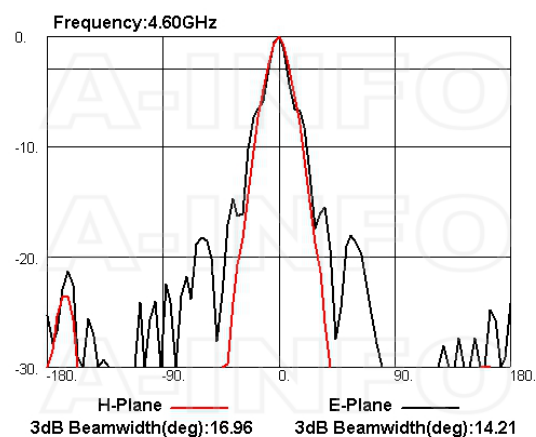
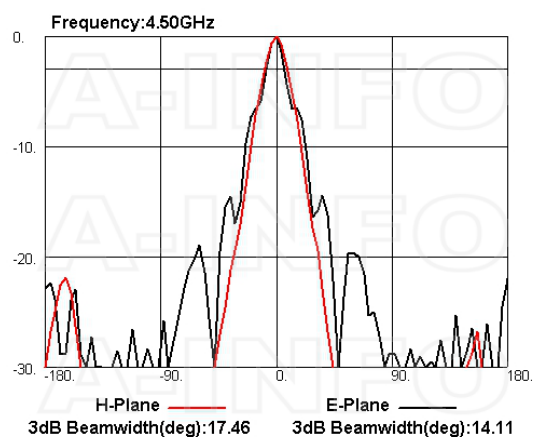
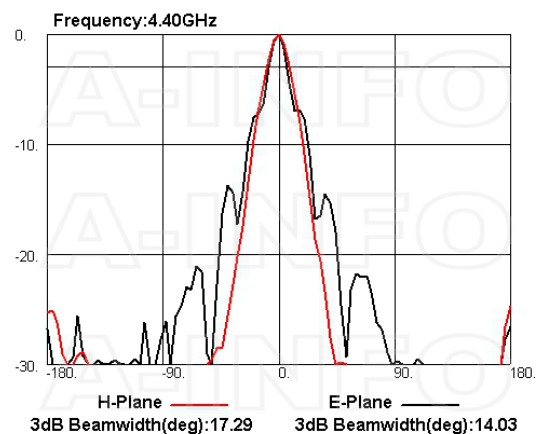
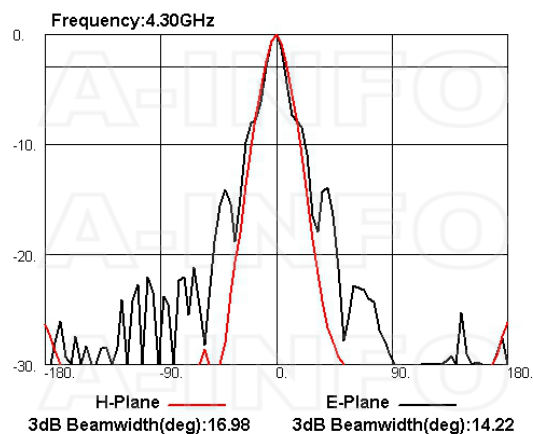
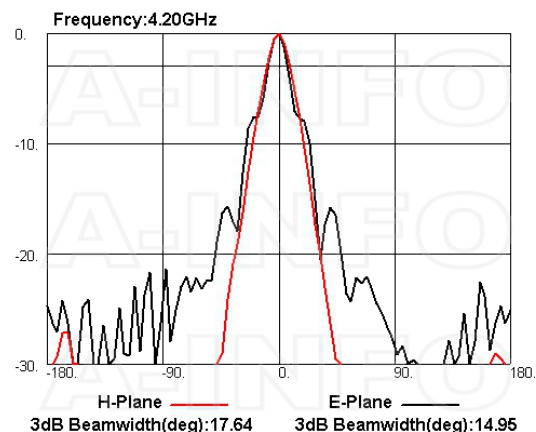
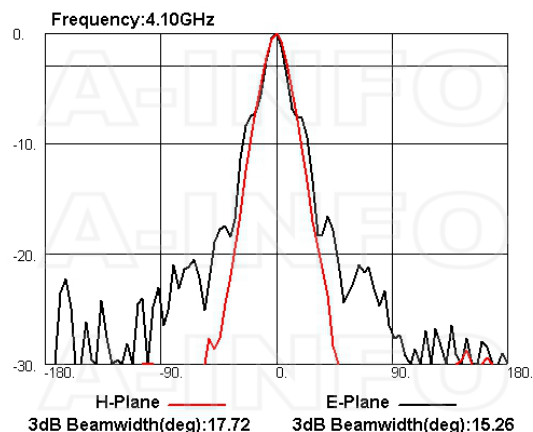
VSWR

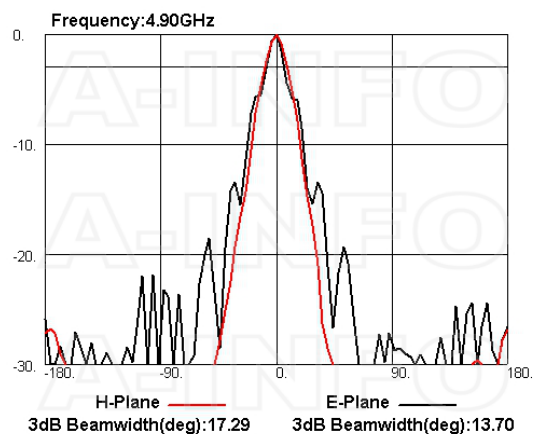
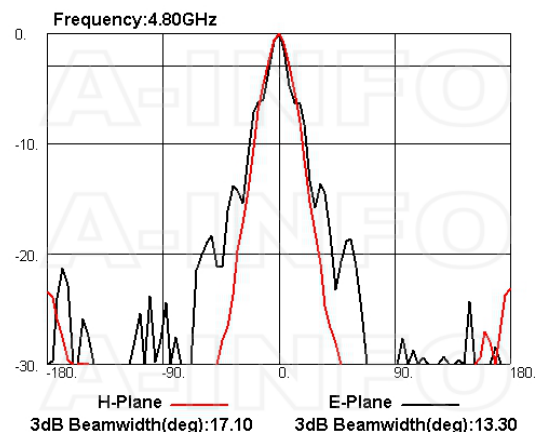
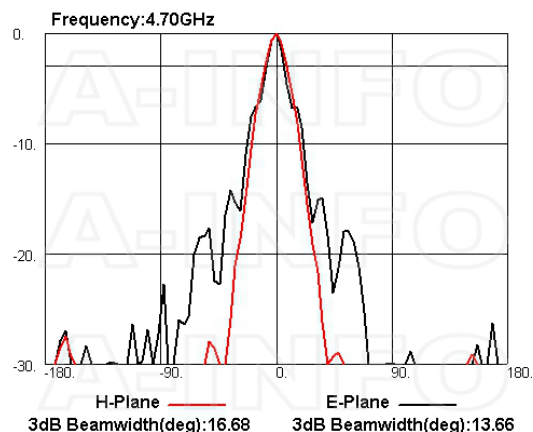


Pattern

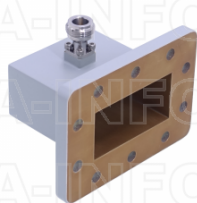








Related Products



229WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to N Type Female



229WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to N Type Male



229WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to SMA Female



229WCASM Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to SMA Male



229WCAT Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to TNC Female



229WCATM Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to TNC Male



229WCA7 Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 7mm



229WCA3.5 Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 3.5mm Female



229WCA3.5M Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 3.5mm Male



229WCAK Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 2.92mm Female



229WCAKM Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 2.92mm Male



229WCA2.4 Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 2.4mm Female



229WCA2.4M Right Angle Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 2.4mm Male



229WECAN Endlaunch Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to N Type Female



229WECAS Endlaunch Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to SMA Female



229WECAK Endlaunch Rectangular Waveguide to Coaxial Adapter 3.3-4.9GHz WR229 to 2.92mm Female



M6x30 Hex_Pack WR284-WR159 Flange Assembly Pack

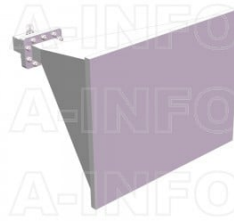
Similar Products



LB-229-20-ASPO Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain Rectangular Waveguide Interface



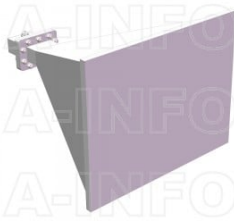
LB-229-20-C-NF Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain N Type Female



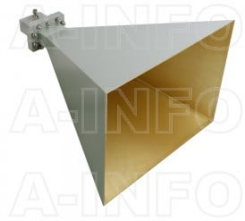
LB-229-20-C-NFSPO Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain N Type Female



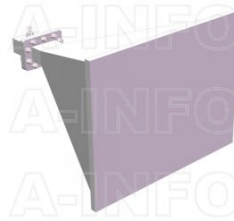
LB-229-20-C-SF Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain SMA Female



LB-229-20-C-SFSPO Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain SMA Female



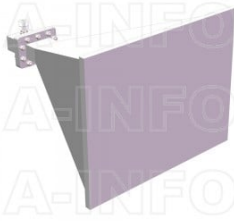
LB-229-20-C-TF Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain TNC Female



LB-229-20-C-TFSPO Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain TNC Female



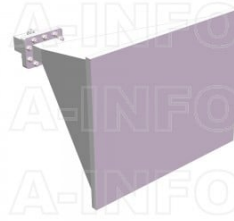
LB-229-20-C-7 Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain 7mm



LB-229-20-C-7SPO Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain 7mm



LB-229-20-C-3.5F Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain 3.5mm Female



LB-229-20-C-3.5FSPO Standard Gain Horn Antenna 3.3-4.9GHz 20dB Gain 3.5mm Female

About this Datasheet

• Product Information

Product Link:
<https://www.ainfoinc.com/lb-229-20-a-standard-gain-horn-antenna-3-3-4-9-ghz-20db-gain-fdp40>
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