



LB-90-20-A Standard Gain Horn Antenna 8.2-12.4GHz 20dB Gain Rectangular Waveguide Interface

Standard Gain Horn Antenna Operating From 8.2GHz to 12.4GHz With a Nominal 20dB Gain With Rectangular Waveguide Interface

Product Information

SKU	LB-90-20-A	Patents	ZL201830355569.9 (China)
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Description

Standard Gain Horn Antenna LB-90-20-A, operating from 8.2 to 12.4GHz with a nominal 20dB gain and low VSWR 1.1:1 with FBP100 output. The model LB-90-20-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

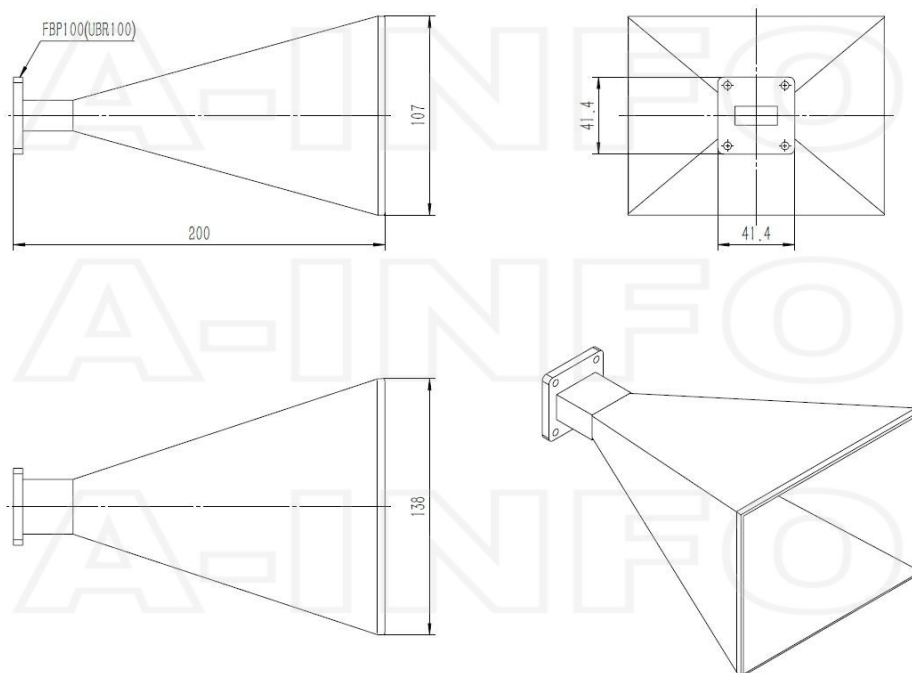
Electrical Specification		Interface	
Frequency, Min (GHz)	8.2	Output Type	Waveguide
Frequency, Max (GHz)	12.4	Flange Style	Square
Waveguide Type	Rectangular	Flange Type	Cover
Waveguide Size EIA WR	WR90	Flange Designation	FBP100(UBR100)
Gain, Typ (dBi)	20	Mechanical Specification	
Polarization	Linear	Figure	A Type
3dB Beamwidth, E-Plane, Typ (Deg.)	14	Body Material	Al
3dB Beamwidth, H-Plane, Typ (Deg.)	16	Finish	Chemical Conversion Coating, Gray Paint
Cross Pol. Isolation, Typ (dB)	45	Size, W (mm)	138
VSWR, Typ	1.1:1	Size, H (mm)	107
		Size, L (mm)	200
		Weight, (kg)	0.4

Additional Information

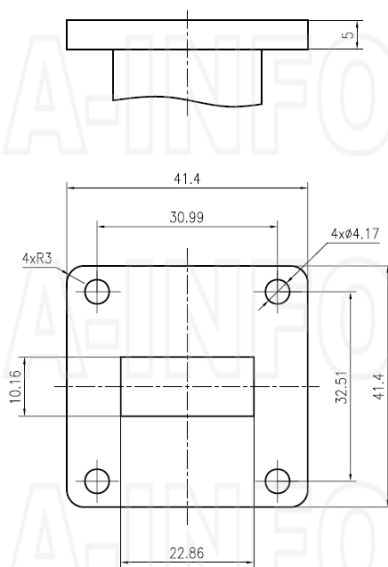
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

FBP100 Output (P/N: LB-90-20-A)



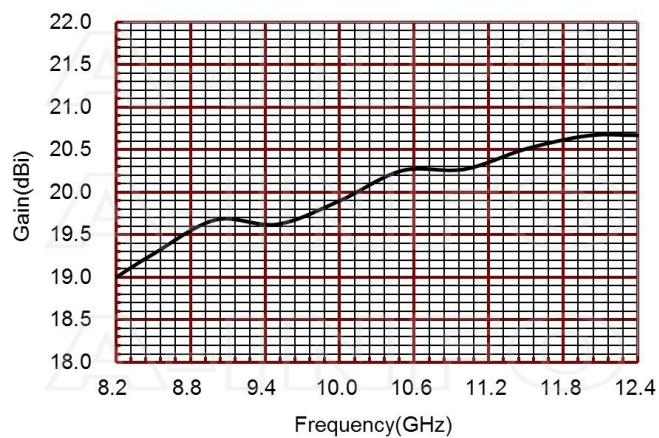
Flange Drawing



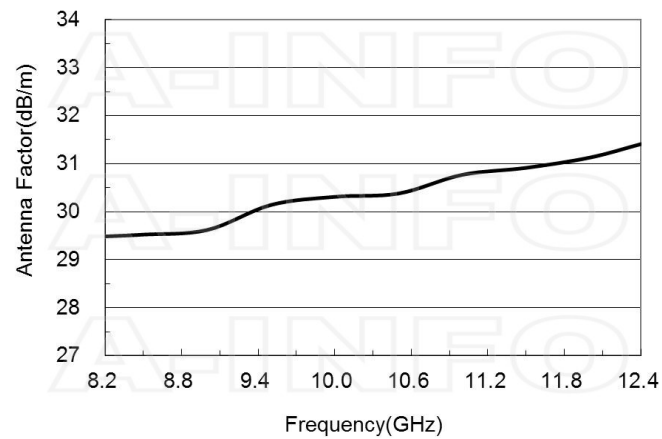
FBP100

Typical Test Results

Gain



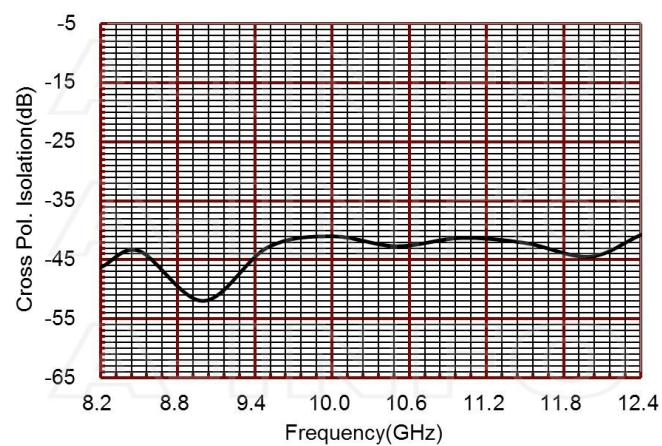
Antenna Factor



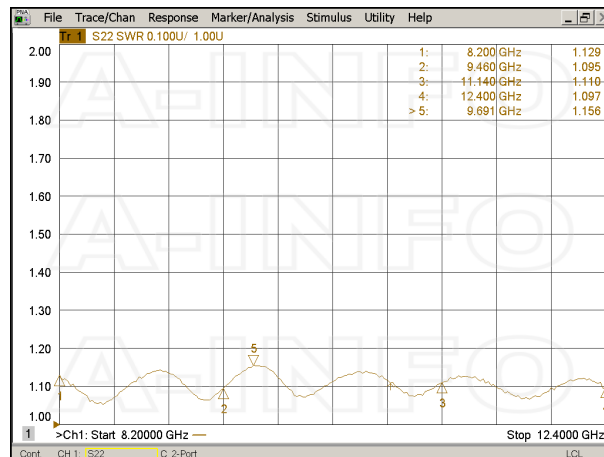
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
8.2	19.00	29.49
8.5	19.27	29.52
9.0	19.68	29.62
9.5	19.62	30.14
10.0	19.90	30.31
10.5	20.25	30.38
11.0	20.27	30.77
11.5	20.51	30.91
12.0	20.67	31.13
12.4	20.67	31.41

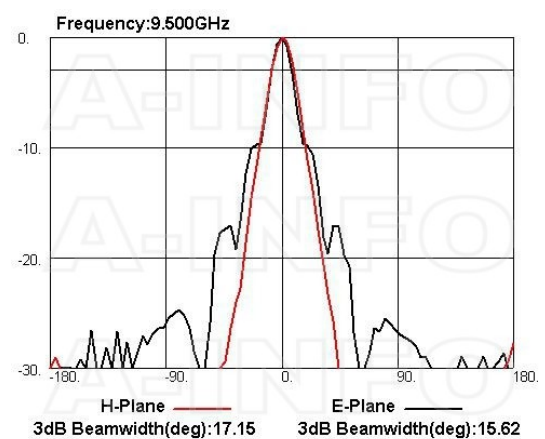
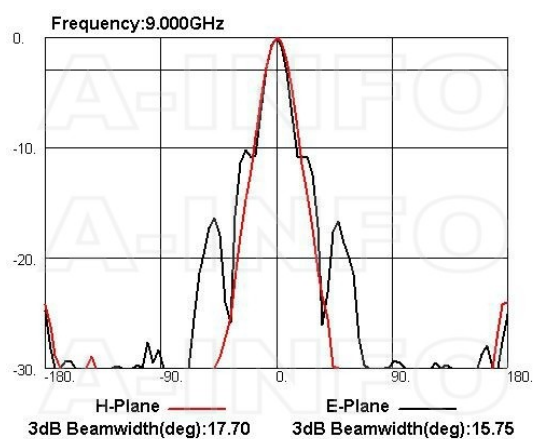
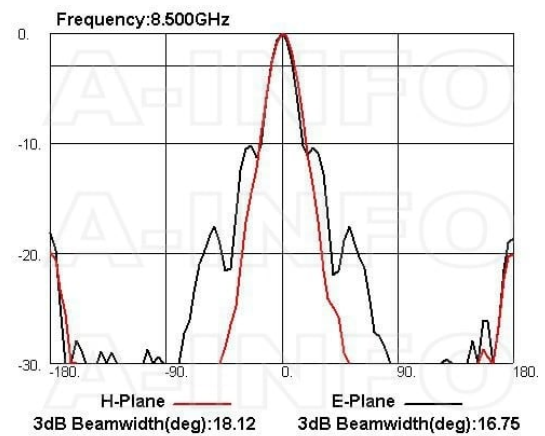
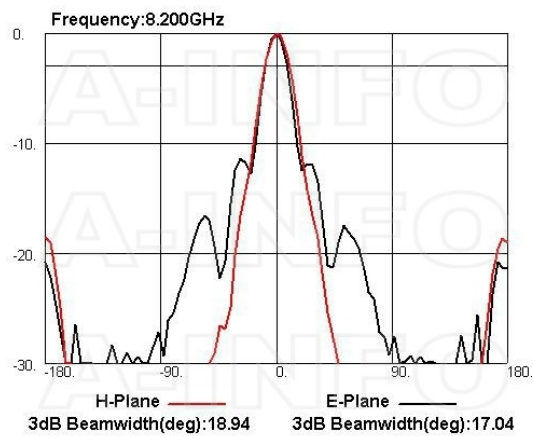
Cross Polarization Isolation

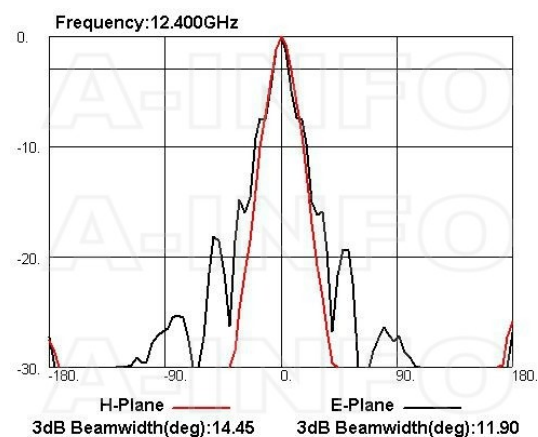
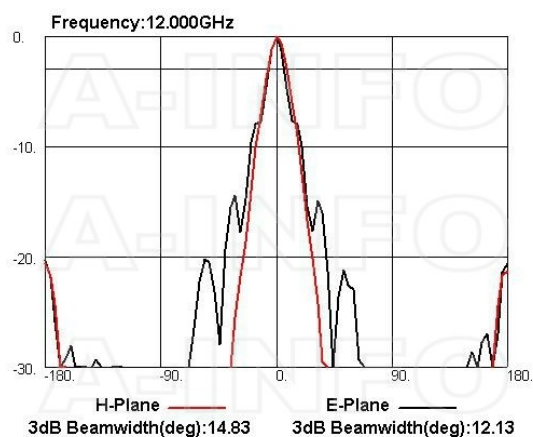
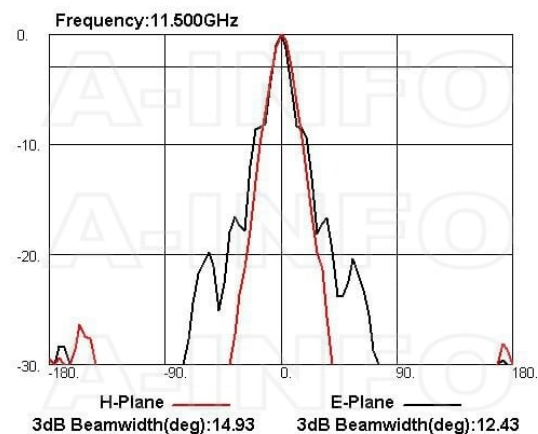
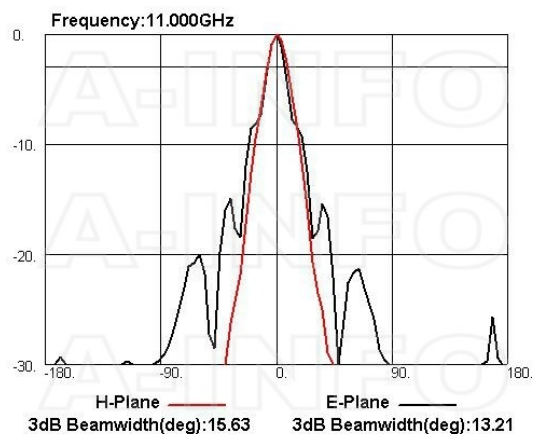
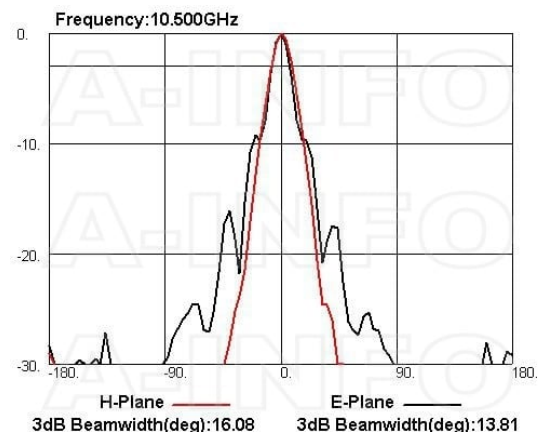
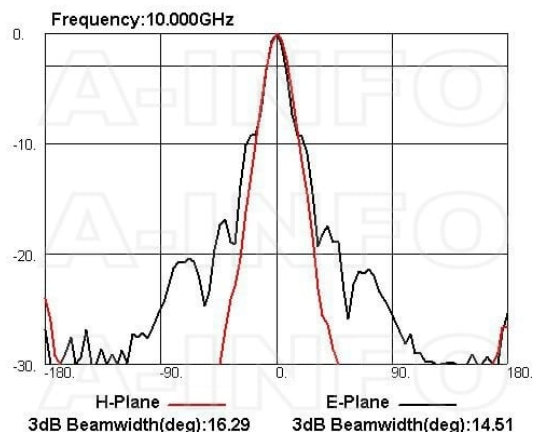


VSWR



Pattern





Related Products



90WCAN Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to N Type Female



90WCANM Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to N Type Male



90WCAS Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to SMA Female



90WCASM Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to SMA Male



90WCAT Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to TNC Female



90WCATM Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to TNC Male



90WCA7 Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to 7mm



90WCA3.5 Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to 3.5mm Female



90WCA3.5M Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to 3.5mm Male



90WCAK Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to 2.92mm Female



90WCAKM Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to 2.92mm Male



90WCA2.4 Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to 2.4mm Female



90WCA2.4M Right Angle Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to 2.4mm Male



90WECAN Endlaunch Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to N Type Female



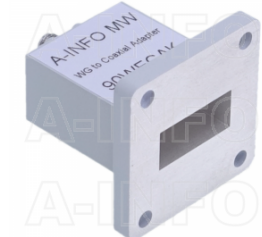
90WECANM Endlaunch Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to N Type Male



90WECAS Endlaunch Rectangular Waveguide to Coaxial Adapter 8.2-12.4GHz WR90 to SMA Female



90WECASM Endlaunch
Rectangular Waveguide to
Coaxial Adapter 8.2-12.4GHz
WR90 to SMA Male



90WECAM Endlaunch
Rectangular Waveguide to
Coaxial Adapter 8.2-12.4GHz
WR90 to 2.92mm Female



M4x18 Hex_Pack WR112- WR51
Flange Assembly Pack

Similar Products



LB-90-20-ASPO Standard Gain
Horn Antenna 8.2-12.4GHz 20dB
Gain Rectangular Waveguide
Interface



LB-90-20-C-SF Standard Gain
Horn Antenna 8.2-12.4GHz 20dB
Gain SMA Female



LB-90-20-C-SFSP Standard Gain
Horn Antenna 8.2-12.4GHz 20dB
Gain SMA Female



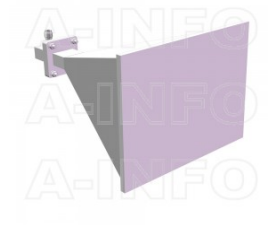
LB-90-20-C-NF Standard Gain
Horn Antenna 8.2-12.4GHz 20dB
Gain N Type Female



LB-90-20-C-NFSP Standard
Gain Horn Antenna 8.2-12.4GHz
20dB Gain N Type Female



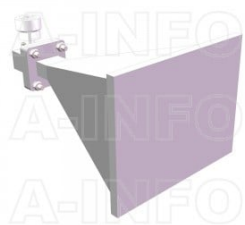
LB-90-20-C-TF Standard Gain
Horn Antenna 8.2-12.4GHz 20dB
Gain TNC Female



LB-90-20-C-TFSP Standard Gain
Horn Antenna 8.2-12.4GHz 20dB
Gain TNC Female



LB-90-20-C-7 Standard Gain Horn
Antenna 8.2-12.4GHz 20dB Gain
7mm



LB-90-20-C-7SPO Standard Gain
Horn Antenna 8.2-12.4GHz 20dB
Gain 7mm



LB-90-20-C-3.5F Standard Gain
Horn Antenna 8.2-12.4GHz 20dB
Gain 3.5mm Female



LB-90-20-C-3.5FSP Standard
Gain Horn Antenna 8.2-12.4GHz
20dB Gain 3.5mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-90-20-a-standard-gain-horn-antenna-8-2-12-4-ghz-20db-gain-fbp100 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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