

LB-90-15-C-7 Standard Gain Horn Antenna 8.2-12.4GHz 15dB Gain 7mm



Standard Gain Horn Antenna Operating From 8.2GHz to 12.4GHz With a Nominal 15dB Gain With 7mm Connector

Product Information

SKU	LB-90-15-C-7
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Description

Standard Gain Horn Antenna LB-90-15-C-7, operating from 8.2 to 12.4GHz with a nominal 15dB gain and low VSWR 1.25:1 with 7mm connector output. The model LB-90-15-C-7 has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 150W continuously and 3000W peak power. 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

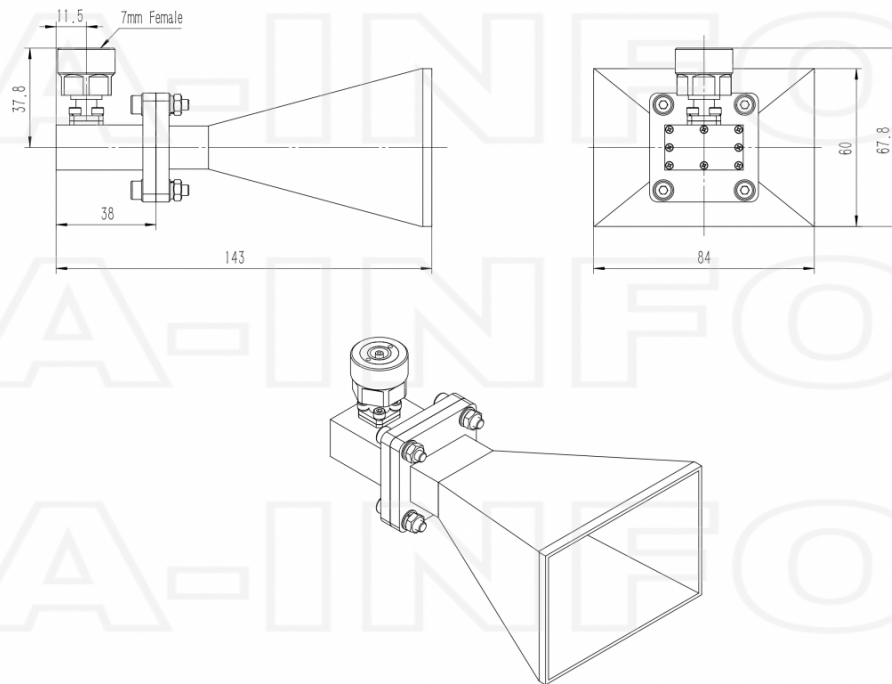
Electrical Specification		Interface	
Frequency, Min (GHz)	8.2	Output Type	Coaxial
Frequency, Max (GHz)	12.4	Connector	7mm
Waveguide Type	Rectangular	Mechanical Specification	
Waveguide Size EIA WR	WR90	Figure	C Type
Gain, Typ (dBi)	15	Body Material	Al
Polarization	Linear	Finish	Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Typ (Deg.)	28	Size, W (mm)	84
3dB Beamwidth, H-Plane, Typ (Deg.)	26	Size, H (mm)	67.8
Cross Pol. Isolation, Typ (dB)	35	Size, L (mm)	143
VSWR, Typ	1.25:1	Weight, (kg)	0.2
Impedance, (Ohm)	50		
Power Handling, CW, (W)	150		
Power Handling, Peak, (W)	3000		

Additional Information

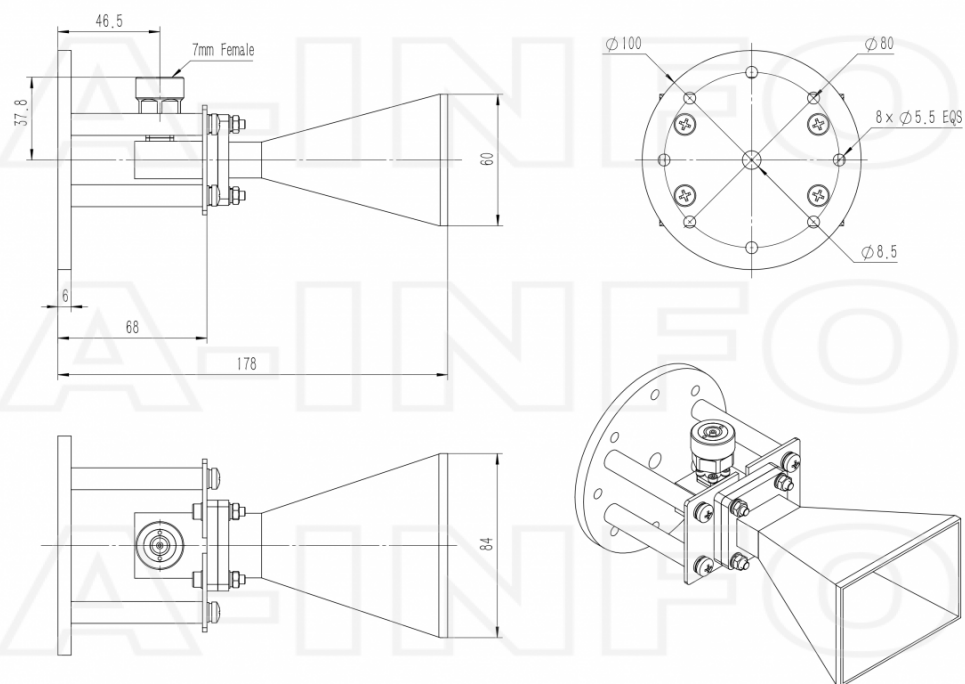
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration Material Measurement
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Outline Drawing

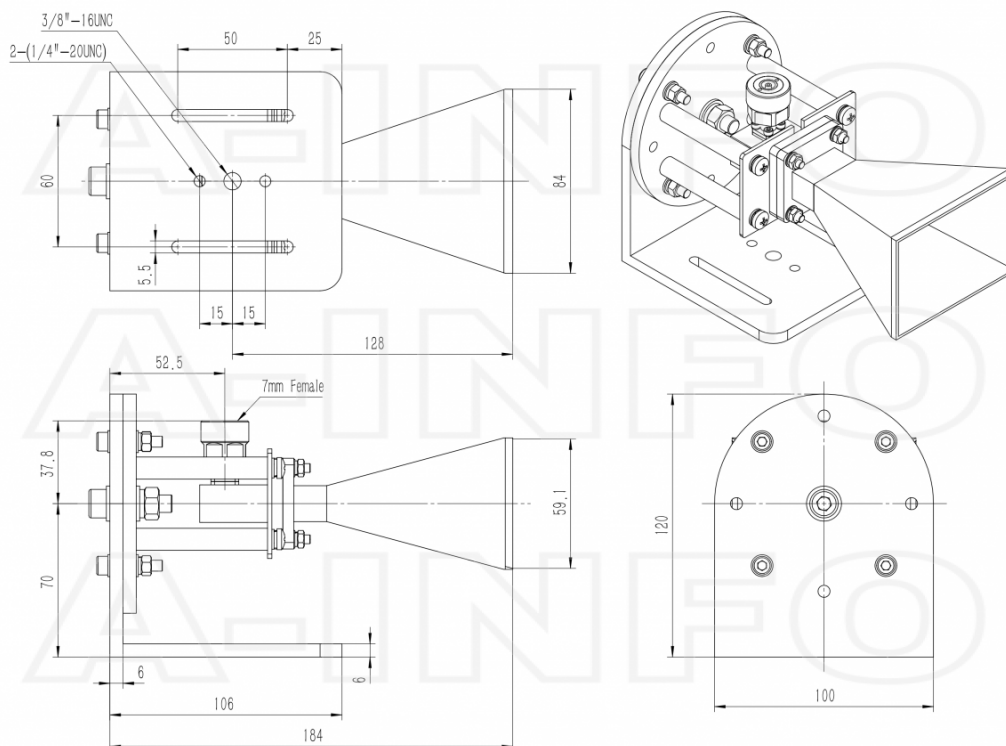
7mm Output (P/N: LB-90-15-C-7)



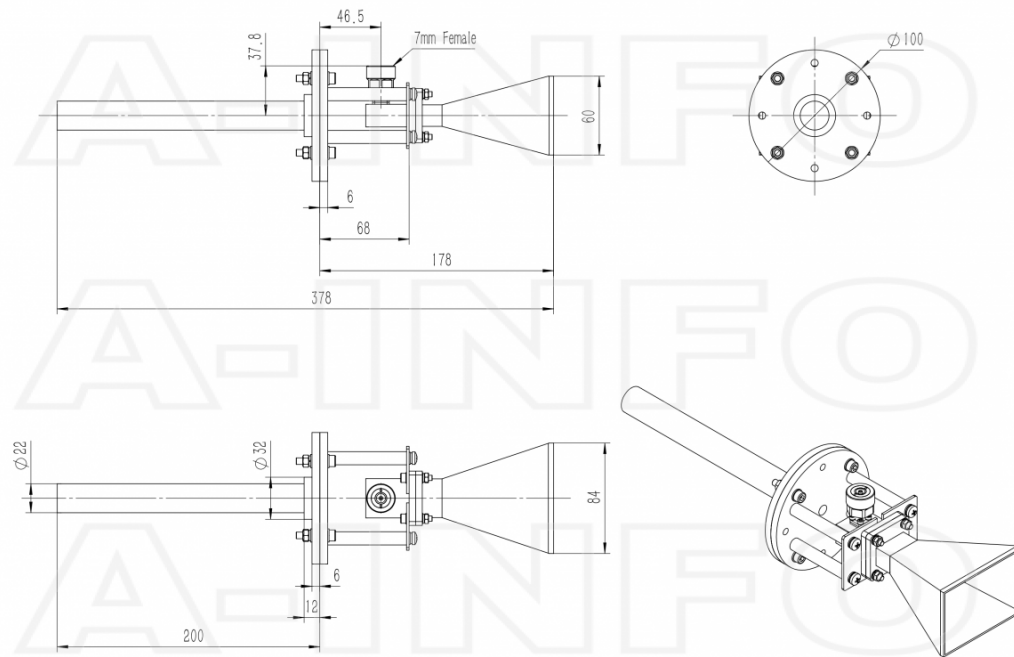
7mm Output with Round Mounting Bracket (Option, P/N: LB-90-10-C-MB)



7mm Output with L Type Mounting Bracket (Option, P/N: LB-90-10-C-MBL)

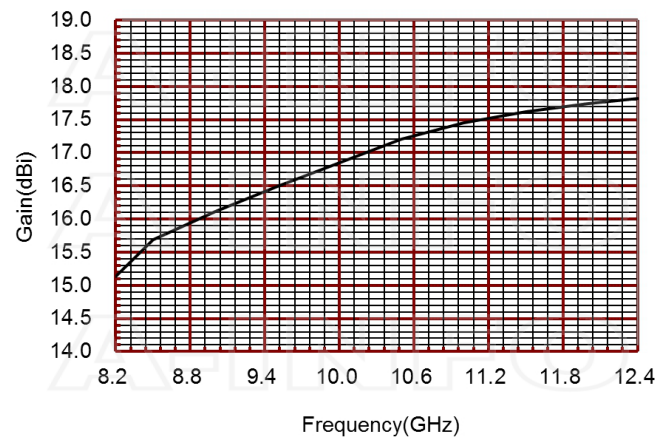


7mm Output with Stinger Type Mounting Bracket (Option, P/N: LB-90-10-C-MA)

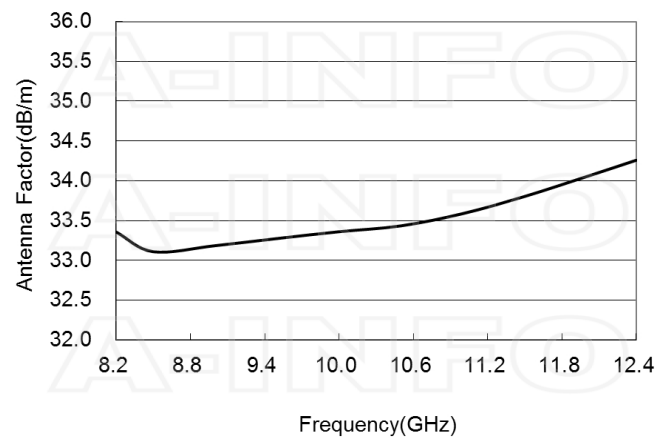


Typical Test Results

Gain



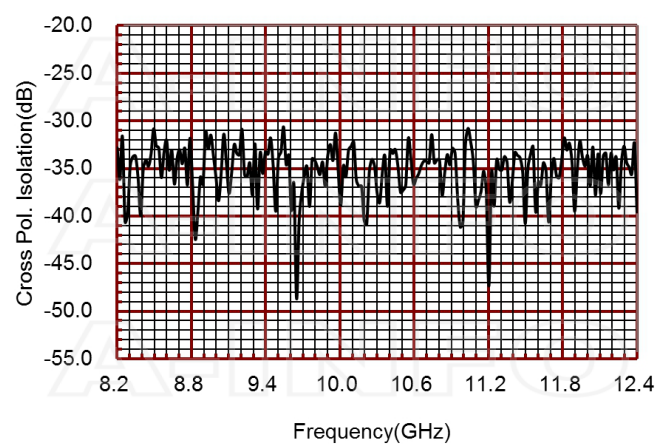
Antenna Factor



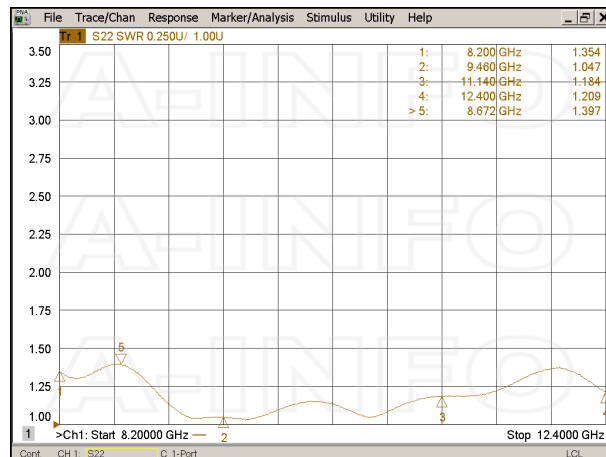
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
8.2	15.13	33.36
8.5	15.69	33.11
9.0	16.11	33.18
9.5	16.49	33.27
10.0	16.85	33.36
10.5	17.20	33.43
11.0	17.45	33.59
11.5	17.62	33.80
12.0	17.74	34.05
12.4	17.82	34.26

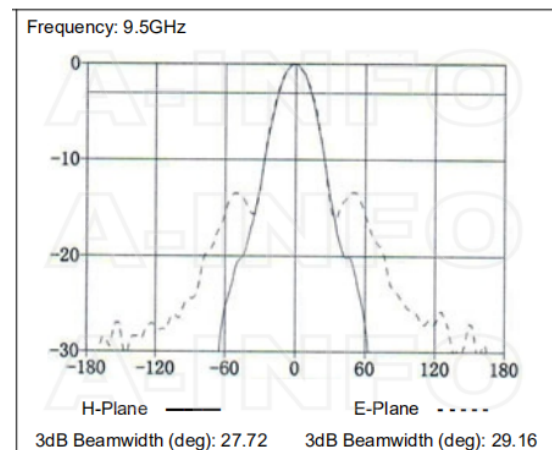
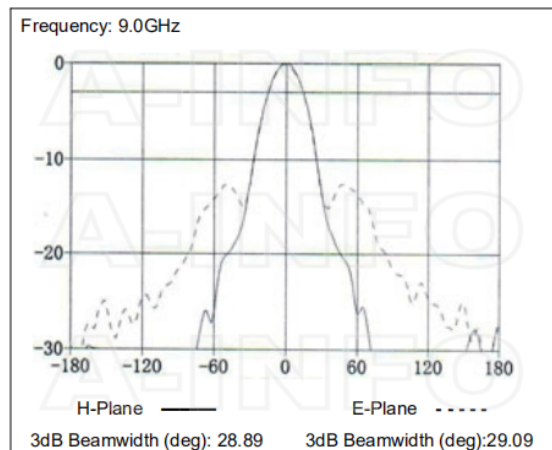
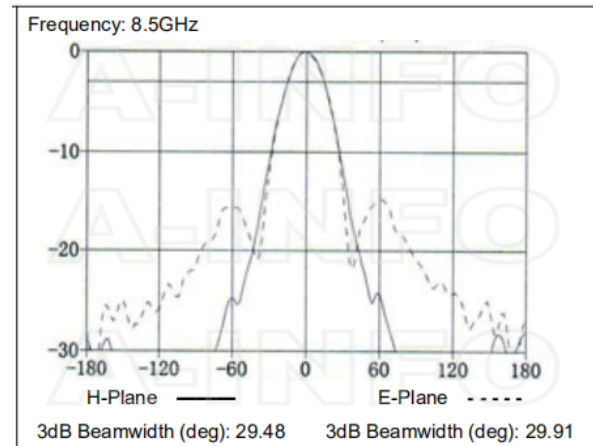
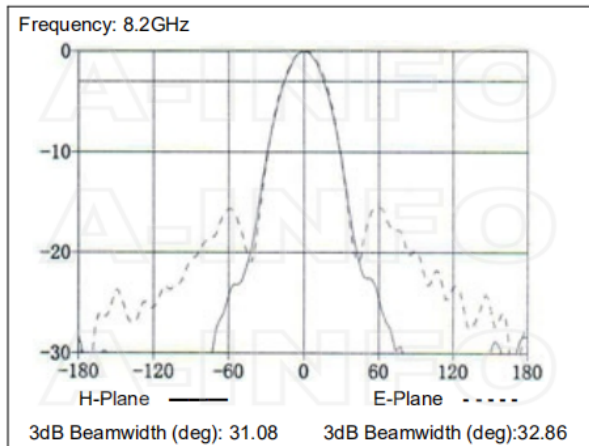
Cross Polarization Isolation

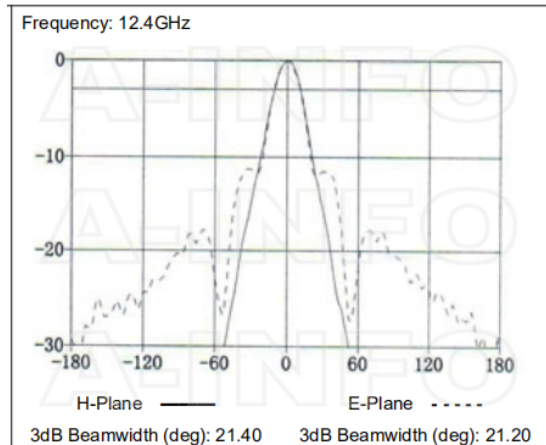
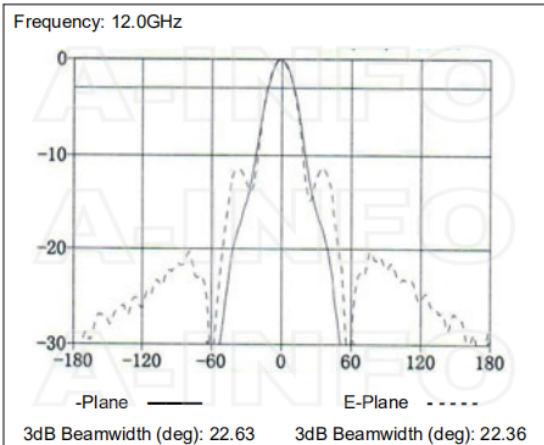
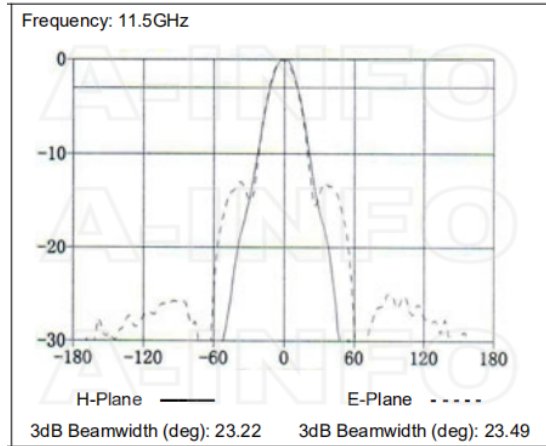
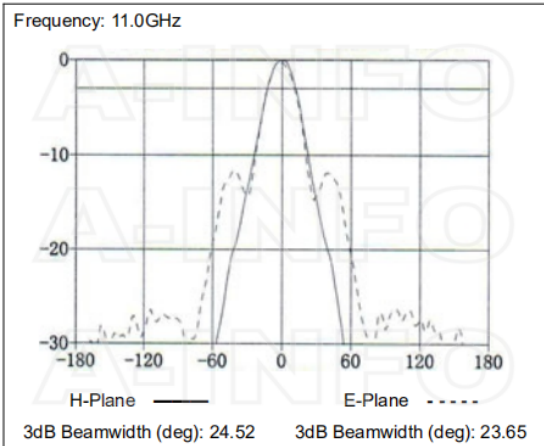
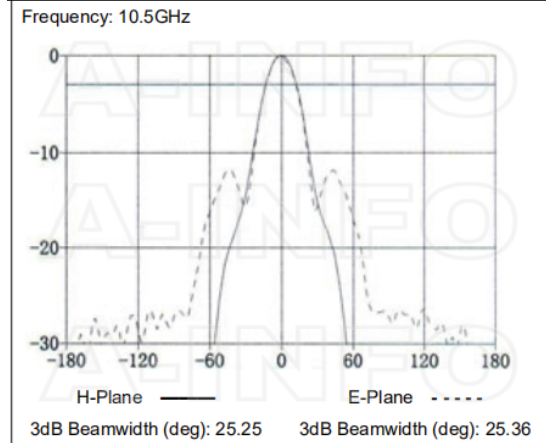
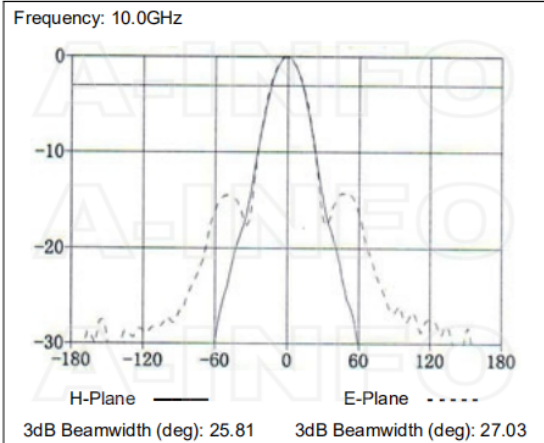


VSWR



Pattern





Related Products



LB-90-10-C-MB Round Type Mounting Bracket



LB-90-10-C-MBL L type mounting bracket



LB-90-10-C-MA Stinger Type Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case_LB-90-15-C Al Alloy Carrying Case



M4x12 Hex_Pack WR51-WR112 Assembly Pack



M4x20 Hex_Pack WR112- WR51 Flange Assembly Pack



M4x30 Hex_Pack Log Periodic, DS Assembly Pack

Similar Products



LB-90-15-A Standard Gain Horn Antenna 8.2-12.4GHz 15dB Gain Rectangular Waveguide Interface



LB-90-15-ASPO Standard Gain Horn Antenna 8.2-12.4GHz 15dB Gain Rectangular Waveguide Interface



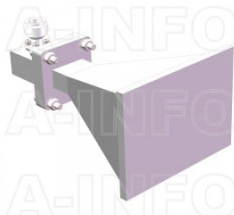
LB-90-15-C-SF Standard Gain Horn Antenna 8.2-12.4GHz 15dB Gain SMA Female



LB-90-15-C-SFSPO Standard Gain Horn Antenna 8.2-12.4GHz 15dB Gain SMA Female



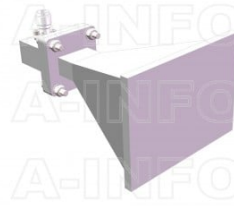
LB-90-15-C-NF Standard Gain
Horn Antenna 8.2-12.4GHz 15dB
Gain N Type Female



LB-90-15-C-NFSPO Standard
Gain Horn Antenna 8.2-12.4GHz
15dB Gain N Type Female



LB-90-15-C-TF Standard Gain
Horn Antenna 8.2-12.4GHz 15dB
Gain TNC Female



LB-90-15-C-TFSPO Standard Gain
Horn Antenna 8.2-12.4GHz 15dB
Gain TNC Female



LB-90-15-C-7SPO Standard Gain
Horn Antenna 8.2-12.4GHz 15dB
Gain 7mm



LB-90-15-C-3.5F Standard Gain
Horn Antenna 8.2-12.4GHz 15dB
Gain 3.5mm Female



LB-90-15-C-3.5FSPO Standard
Gain Horn Antenna 8.2-12.4GHz
15dB Gain 3.5mm Female

About this Datasheet

● Product Information Product Link: https://www.ainfoinc.com/lb-90-15-c-7-standard-gain-horn-antenna-8-2-12-4-ghz-15db-gain-7mm 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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