

LB-1401100-1.0F Broadband Horn Antenna 14-110GHz 13dB Gain 1.0mm Female

Broadband Horn Antenna Operating From 14GHz to 110GHz With a Nominal 13dB Gain With 1.0mm Female Connector, Carrying Box included



Product Information

SKU	LB-1401100-1.0F	Patents	US 11442093 (USA) US D978843 (USA) ZL202020182917.9 (China) ZL202030087711.3 (China)
-----	-----------------	---------	---

Description

Broadband horn antenna LB-1401100-1.0F, operating from 14 to 110GHz with a nominal 13dB gain and low VSWR 1.5:1 with 1.0mm Female output connector. The model LB-1401100-1.0F has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 4W continuously and 8W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This broadband 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	
Frequency, Min (GHz)	14
Frequency, Max (GHz)	110
Gain, Typ (dBi)	13
Polarization	Linear
3dB Beamwidth, E-Plane, Min (Deg.)	11
3dB Beamwidth, E-Plane, Max (Deg.)	75
3dB Beamwidth, H-Plane, Min (Deg.)	9
3dB Beamwidth, H-Plane, Max (Deg.)	67
Cross Pol. Isolation, Typ (dB)	35
VSWR, Typ	1.5:1
Impedance, (Ohm)	50
Power Handling, CW, (W)	4
Power Handling, Peak, (W)	8

Interface	
Output Type	Coaxial
Connector	1.0mm
Connector Gender	Female
Mechanical Specification	
Body Material	Al
Finish	Gold Plated and Chemical Conversion Coating
Size, W (mm)	41.3
Size, H (mm)	41.3
Size, L (mm)	65
Weight, (kg)	0.1

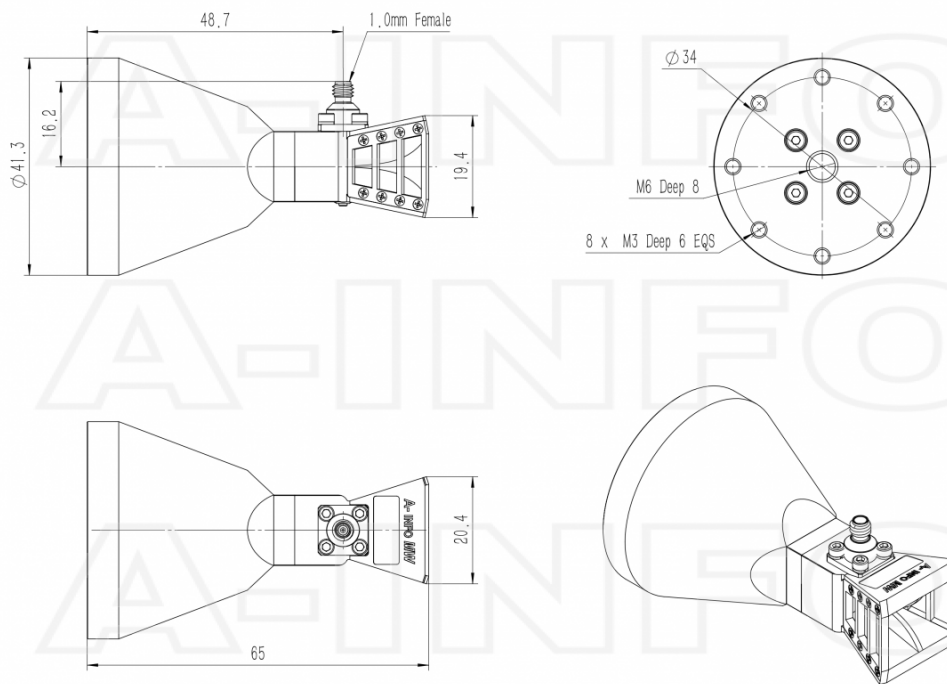
Additional Information

Application	General Purpose Indoor & Outdoor, Fixed
-------------	---

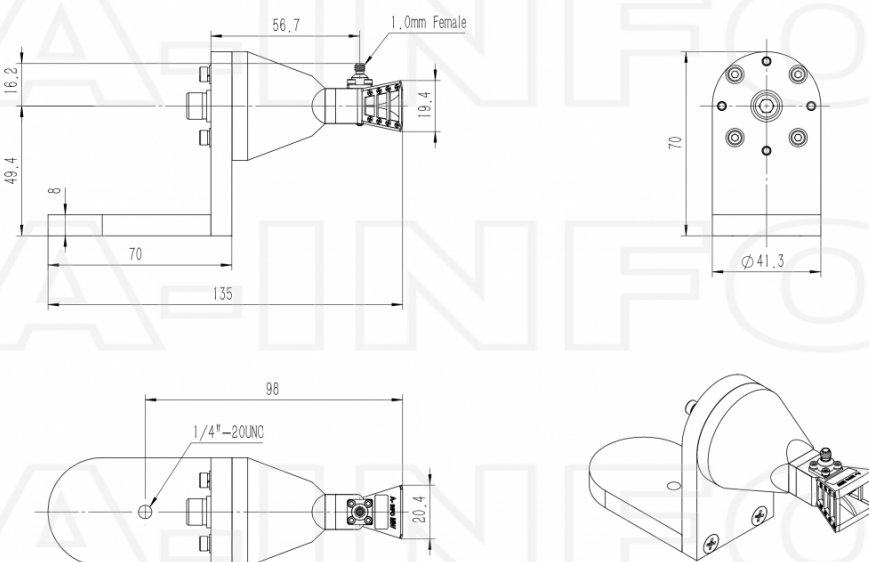
Solution for	Gain Reference Antenna Measurement Reflector Feed Far-field Measurement System Intergration
--------------	---

Outline Drawing

1.0mm-Female Output (P/N: LB-1401100-1.0F)

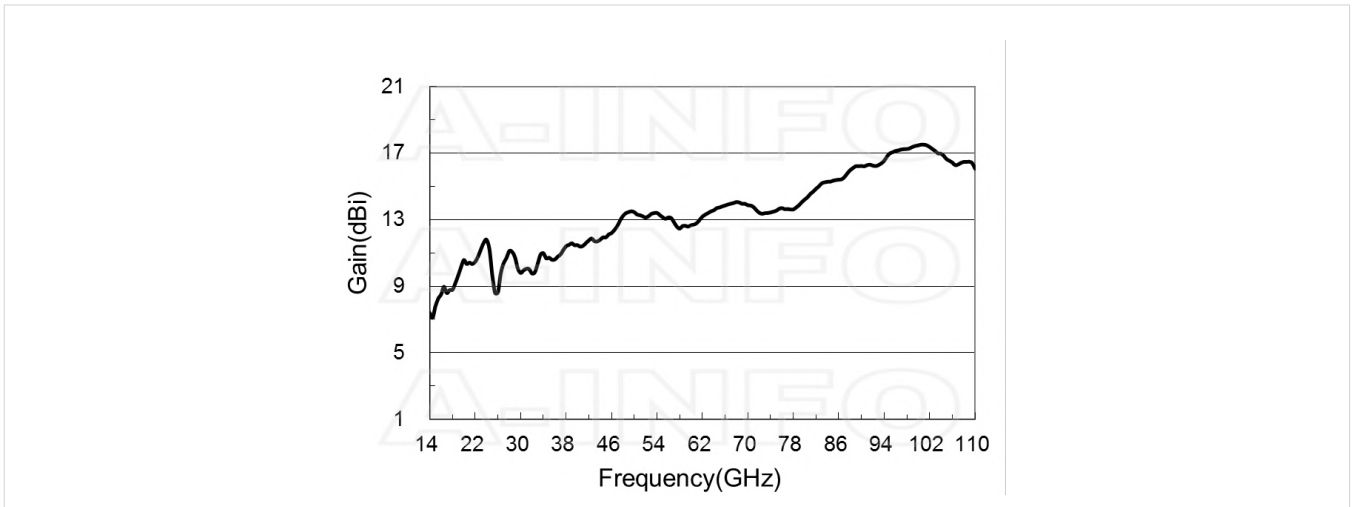


1.0mm-Female Output with L Type Mounting Bracket (Option, P/N:LB-20180-L)

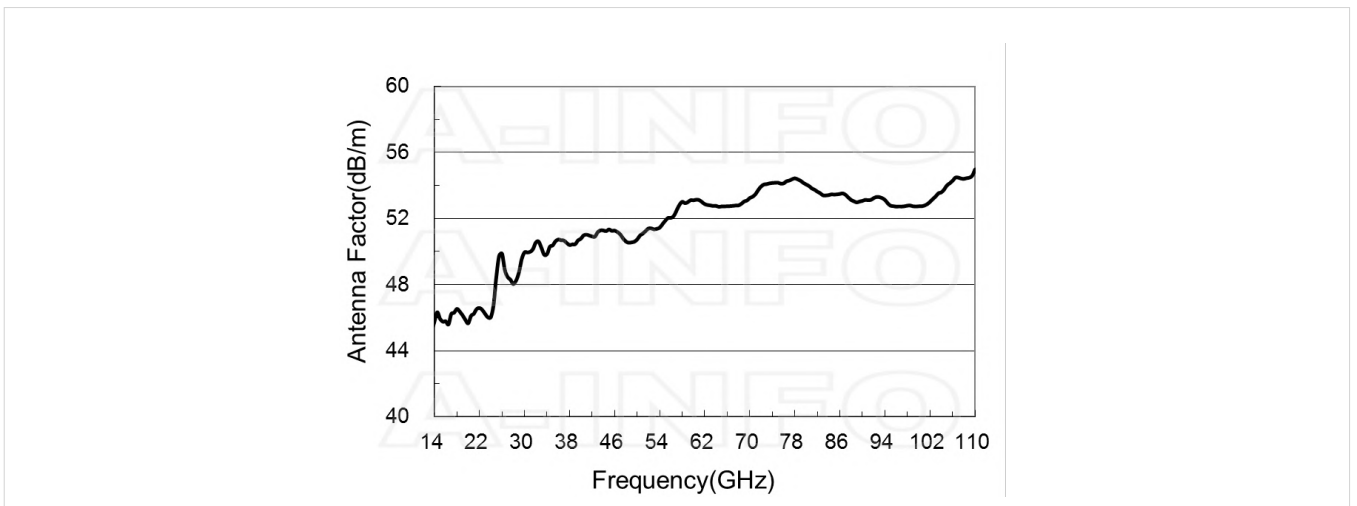


Typical Test Results

Gain



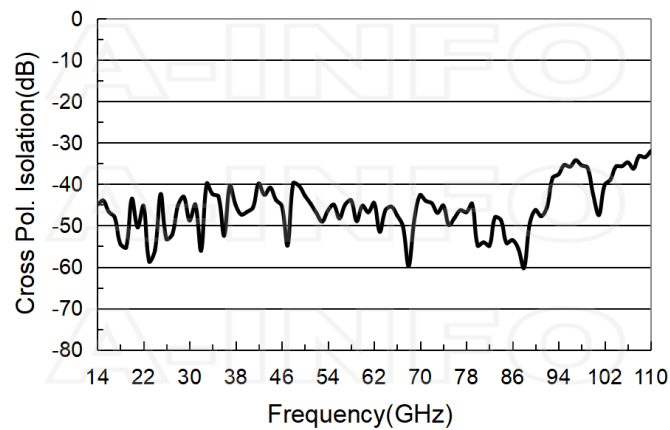
Antenna Factor



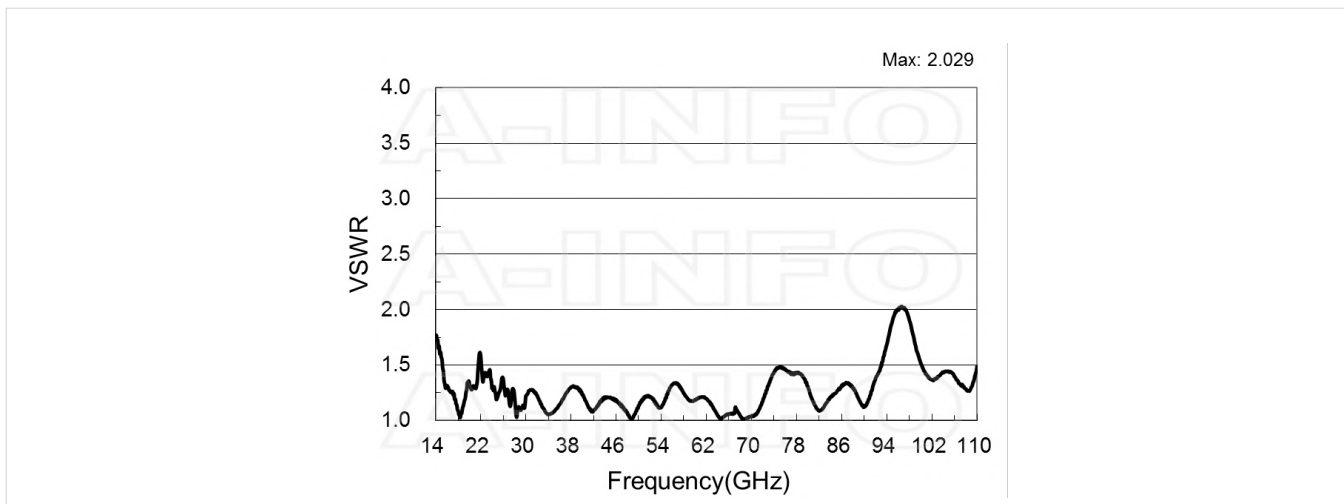
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
14.0	7.38	45.76
15.0	7.80	45.94
20.0	10.57	45.66
25.0	9.67	48.50
30.0	9.80	49.95
35.0	10.71	50.38
40.0	11.47	50.78
45.0	11.93	51.34
50.0	13.45	50.74
55.0	13.14	51.87
60.0	12.67	53.11
65.0	13.73	52.74
70.0	13.87	53.25
75.0	13.54	54.17
80.0	14.21	54.06
85.0	15.34	53.45
90.0	16.23	53.07
95.0	16.99	52.78
100.0	17.47	52.74
105.0	16.63	54.00
110.0	16.06	54.97

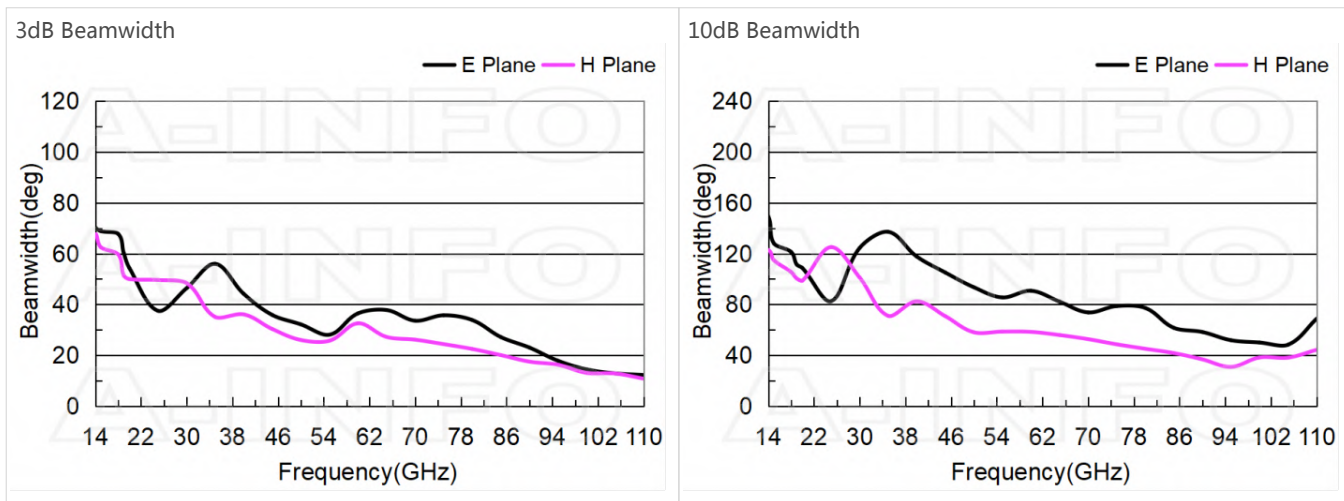
Cross Polarization Isolation



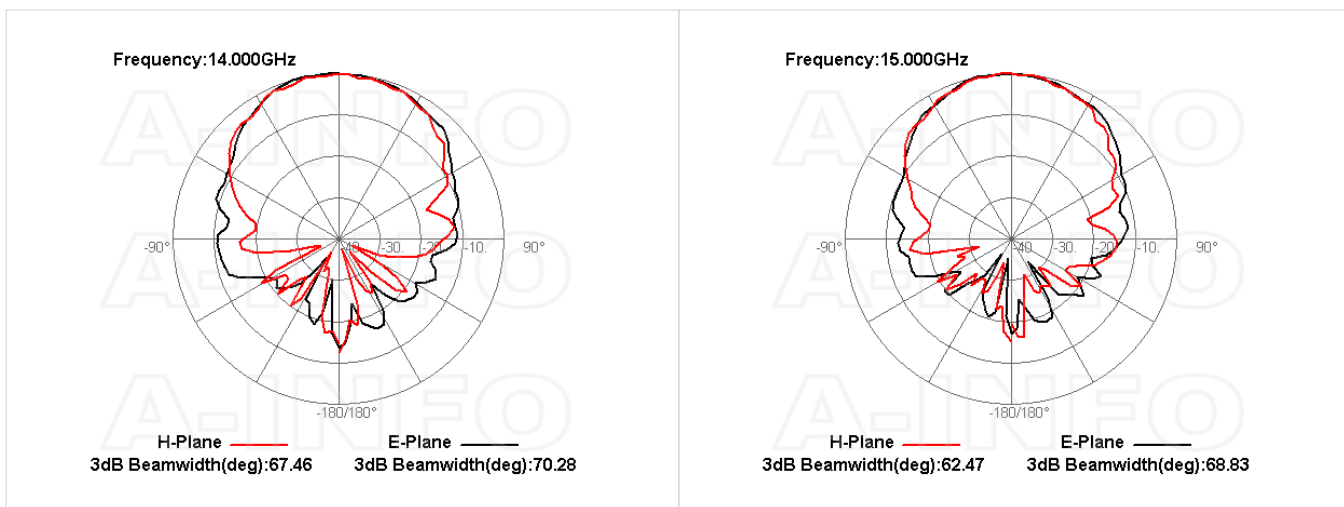
VSWR



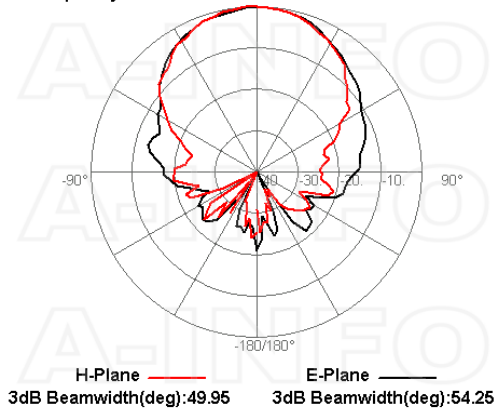
Beamwidth



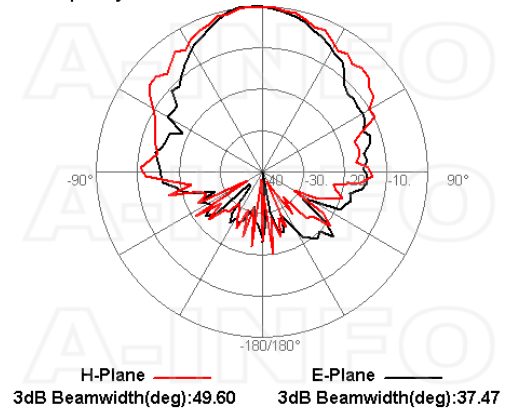
Pattern



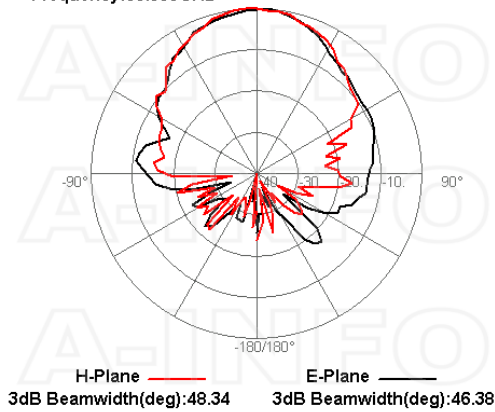
Frequency:20.000GHz



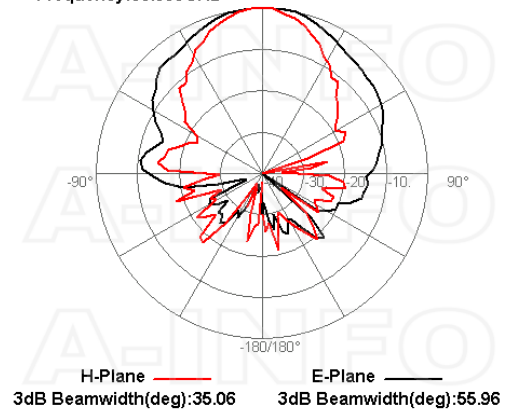
Frequency:25.000GHz



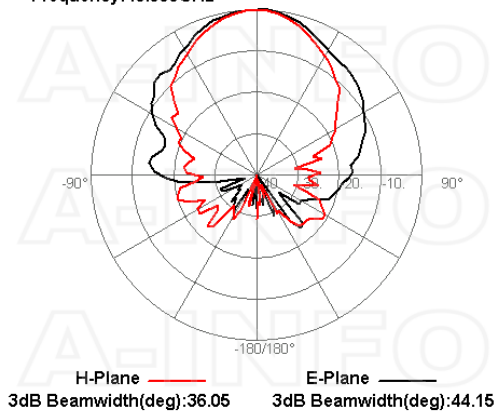
Frequency:30.000GHz



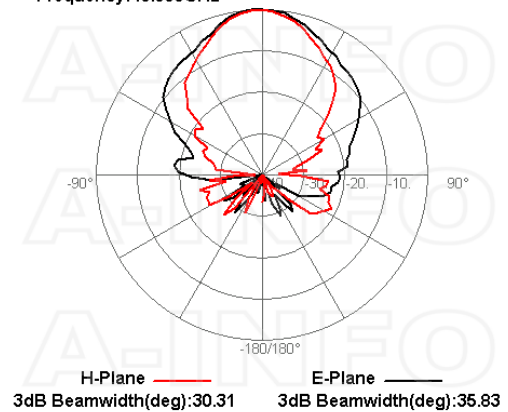
Frequency:35.000GHz



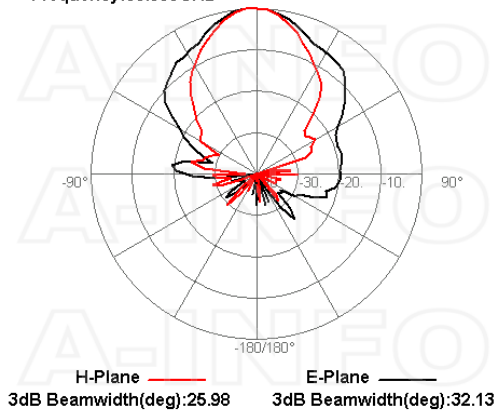
Frequency:40.000GHz



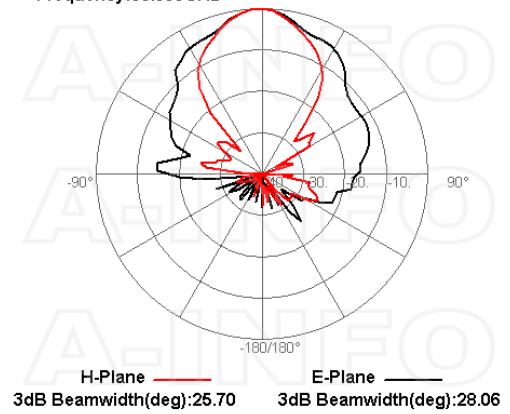
Frequency:45.000GHz



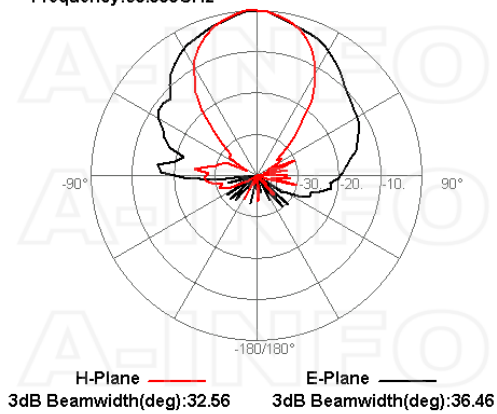
Frequency:50.000GHz



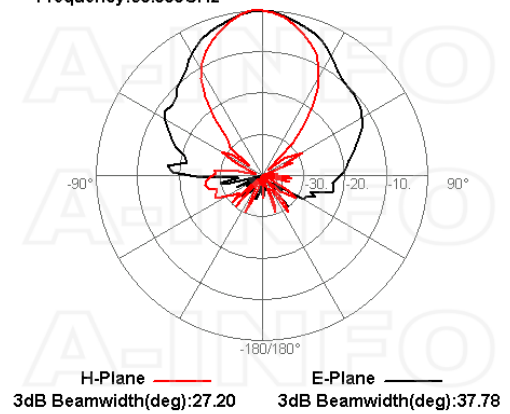
Frequency:55.000GHz



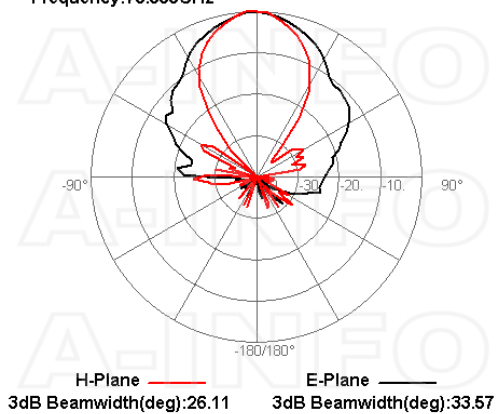
Frequency:60.000GHz



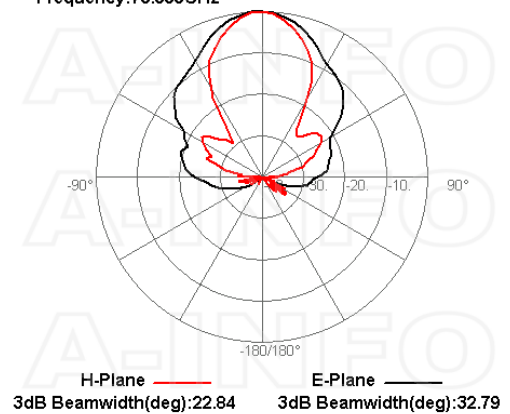
Frequency:65.000GHz



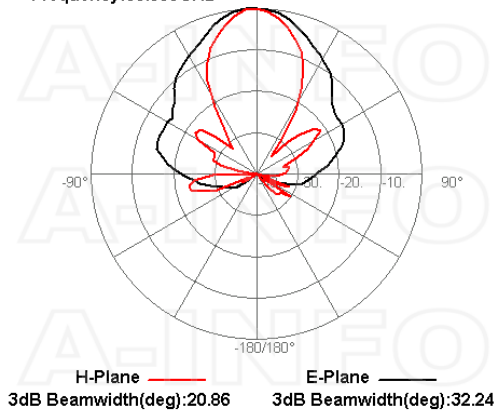
Frequency:70.000GHz



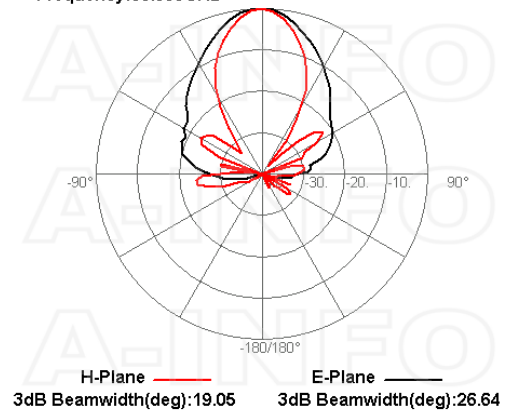
Frequency:75.000GHz



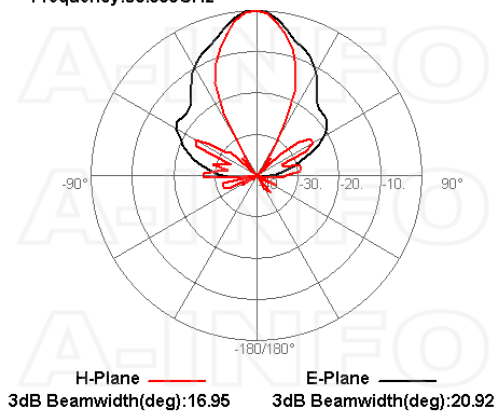
Frequency:80.000GHz



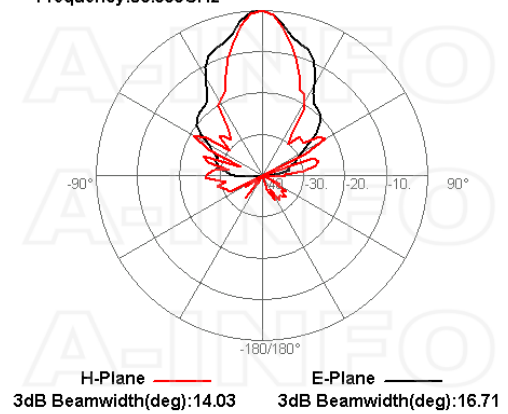
Frequency:85.000GHz



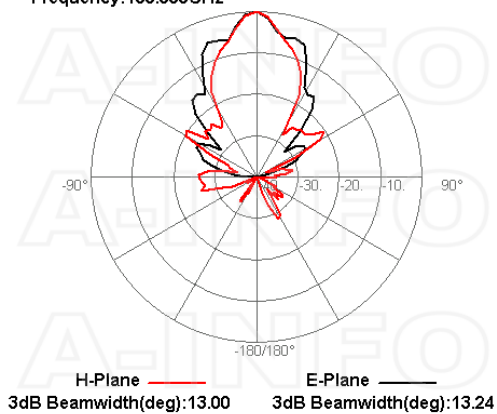
Frequency:90.000GHz



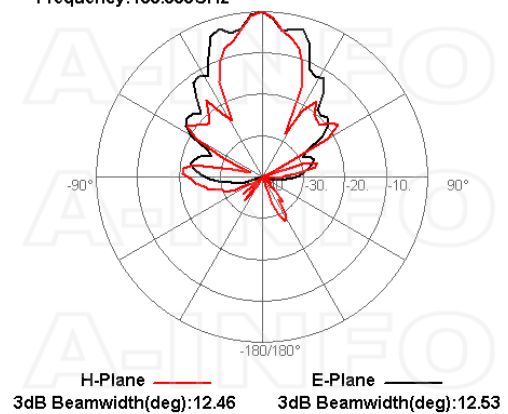
Frequency:95.000GHz

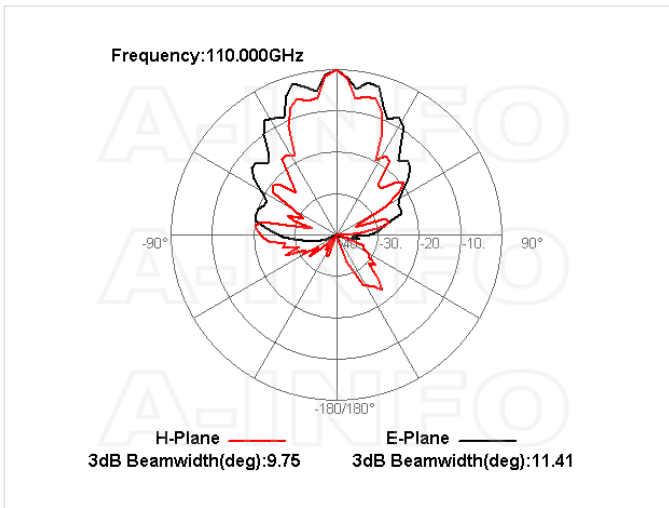


Frequency:100.000GHz



Frequency:105.000GHz





Related Products



LB-20180-L L Type Mounting Bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case_LB-1001100 Al Alloy Carrying Case



1.0M-1.0M-C010-150 Flexible Cable Assembly 150mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-200 Flexible Cable Assembly 200mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-300 Flexible Cable Assembly 300mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-500 Flexible Cable Assembly 500mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-1000 Flexible Cable Assembly 1000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-1500 Flexible Cable Assembly 1500mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-2000 Flexible Cable Assembly 2000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-3000 Flexible Cable Assembly 3000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-5000 Flexible Cable Assembly 5000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010-10000 Flexible Cable Assembly 10000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010M-500 Flexible Cable Assembly 500mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010M-1000 Flexible Cable Assembly 1000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010M-1500 Flexible Cable Assembly 1500mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010M-2000 Flexible Cable Assembly 2000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010M-3000 Flexible Cable Assembly 3000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010M-5000 Flexible Cable Assembly 5000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0M-C010M-10000 Flexible Cable Assembly 10000mm DC-110GHz 1.0mm Male to 1.0mm Male



1.0M-1.0F-C010M-1000 Flexible Cable Assembly 1000mm DC-110GHz 1.0mm Male to 1.0mm Female



1.0M-1.0F-C010M-2000 Flexible Cable Assembly 2000mm DC-110GHz 1.0mm Male to 1.0mm Female



1.0M-1.0F-C010M-3000 Flexible Cable Assembly 3000mm DC-110GHz 1.0mm Male to 1.0mm Female



1.0M-1.0F-C010M-5000 Flexible Cable Assembly 5000mm DC-110GHz 1.0mm Male to 1.0mm Female



1.0M-1.0F-C010M-10000 Flexible Cable Assembly 10000mm DC-110GHz 1.0mm Male to 1.0mm Female

Similar Products



LB-60670-1.85F Broadband Horn Antenna 6-67GHz 13dB Gain 1.85mm Female



LB-60670-1.85FSPO Broadband Horn Antenna 6-67GHz 13dB Gain 1.85mm Female



LB-1001100-1.0F Broadband Horn Antenna 10-110GHz 13dB Gain 1.0mm Female



LB-1801100-1.0F Broadband Horn Antenna 18-110GHz 14dB Gain 1.0mm Female



LB-SJ-40400-KF Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.92mm Female



LB-SJ-40400-KFSPO Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.92mm Female



LB-SJ-40400-2.4F Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.4mm Female



LB-SJ-40400-2.4FSPO Broadband Dual Polarization Horn Antenna 4-40GHz 12dB Gain 2.4mm Female



LB-SJ-50500-2.4F Broadband Dual Polarization Horn Antenna 5-50GHz 12dB Gain 2.4mm Female



LB-SJ-50500-1.85F Broadband Dual Polarization Horn Antenna 5-50GHz 12dB Gain 1.85mm Female

About this Datasheet

● **Product Information**

Product Link:
<https://www.ainfoinc.com/lb-1401100-1-0f-broadband-horn-antenna-14-110-ghz-13db-gain-1-0mm-female>
 Data subject to change without notice.
 © A-INFO INC. 2024. All Rights Reserved

● **Contact Us**

Address:
 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