

LB-OSJ-20180-SF Open Boundary Quad-Ridged Dual Polarization Horn Antenna 2-18GHz 13dB Gain SMA Female



Open Boundary Quad-Ridged Dual Polarization Horn Antenna Operating From 2GHz to 18GHz With a Nominal 13dB Gain With SMA Female Connector

Product Information

SKU	LB-OSJ-20180-SF
-----	-----------------

Description

Open Boundary Quad-Ridged Dual Polarization Horn Antenna LB-OSJ-20180-SF, operating from 2 to 18GHz with a nominal 13dB gain and low VSWR 2.0:1 with SMA Female output connector. The model LB-OSJ-20180-SF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 50W continuously and 100W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This horn antenna has dual linear polarization and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

Technical Specification

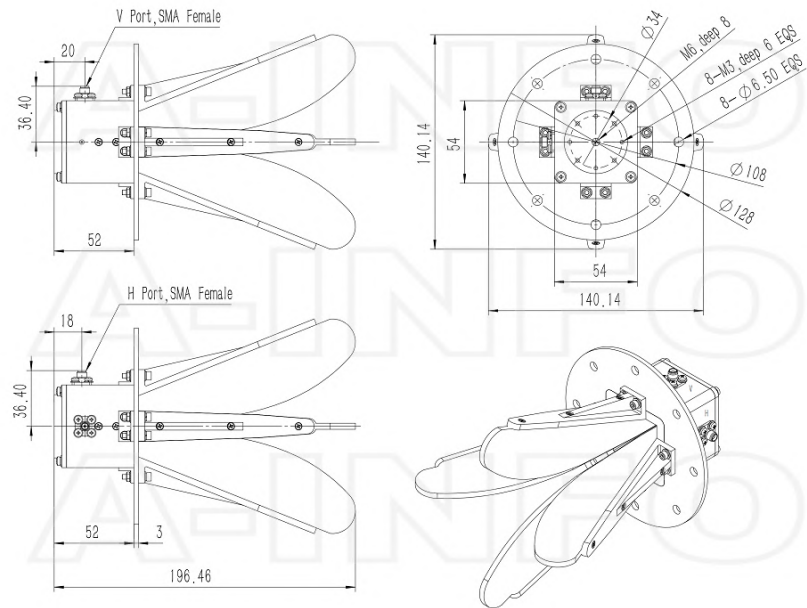
Electrical Specification		Interface	
Frequency, Min (GHz)	2	Output Type	Coaxial
Frequency, Max (GHz)	18	Connector	SMA
Gain, Typ (dBi)	13	Connector Gender	Female
Polarization	Dual Linear	Mechanical Specification	
3dB Beamwidth, E-Plane, Min (Deg.)	20	Body Material	Al
3dB Beamwidth, E-Plane, Max (Deg.)	49	Finish	Chemical Conversion Coating and Nickel Plated
3dB Beamwidth, H-Plane, Min (Deg.)	10	Size, W (mm)	140.14
3dB Beamwidth, H-Plane, Max (Deg.)	81	Size, H (mm)	140.14
Cross Pol. Isolation, Min (dB)	20	Size, L (mm)	196.46
Cross Pol. Isolation, Typ (dB)	30	Weight, (kg)	0.61
Port to Port Isolation, Min (dB)	20		
Port to Port Isolation, Typ (dB)	30		
VSWR, Typ	2.0:1		
Impedance, (Ohm)	50		
Power Handling, CW, (W)	50		
Power Handling, Peak, (W)	100		

Additional Information

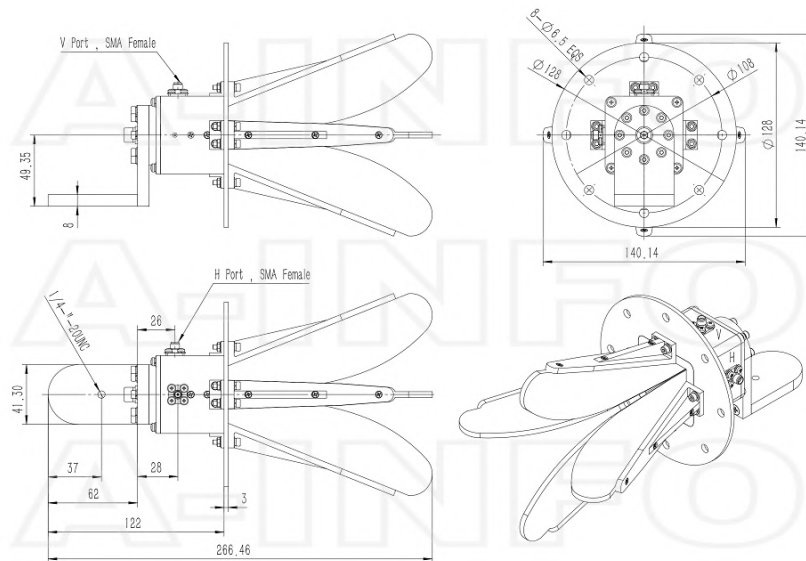
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Antenna Measurement Reflector Feed Far-field Measurement Planar Near-Field Measurement Cylindrical Near-Field Measurement Spherical Near-Field Measurement CATR System Intergration
-------------	---	--------------	--

Outline Drawing

SMA-Female Output (P/N: LB-OSJ-20180-SF)

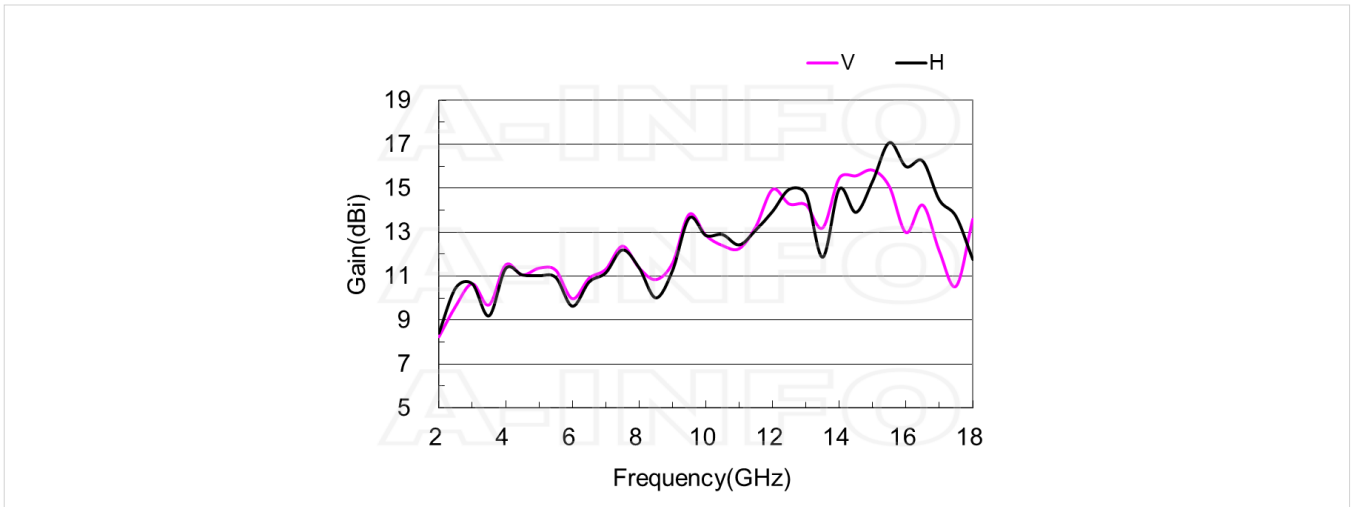


SMA-Female Output with L Type Mounting Bracket (Option, P/N: LB-20180-L)

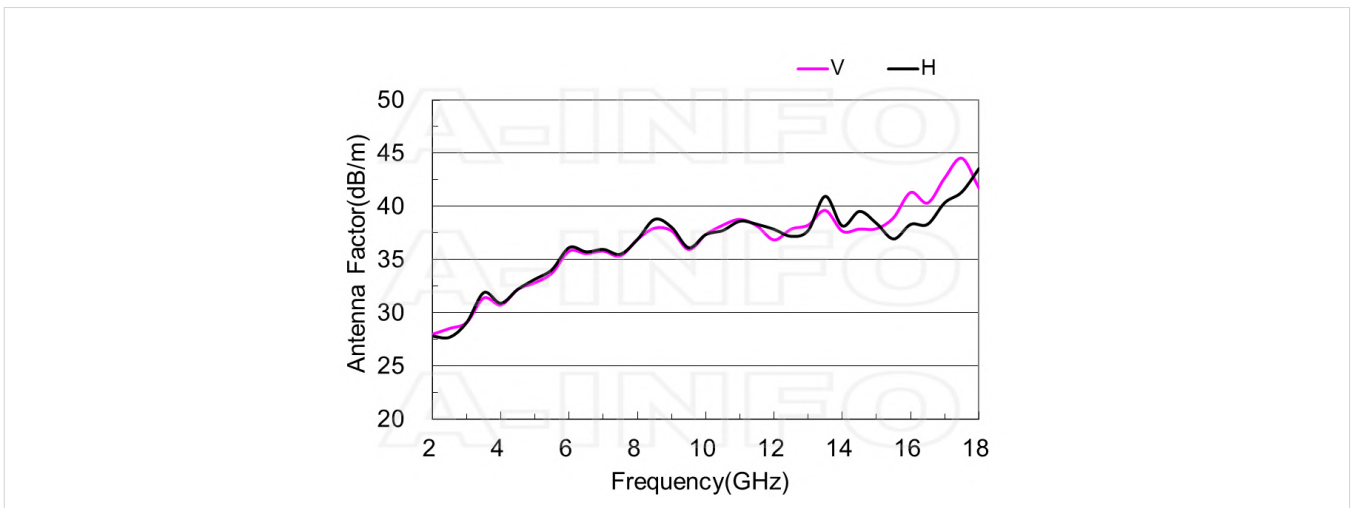


Typical Test Results

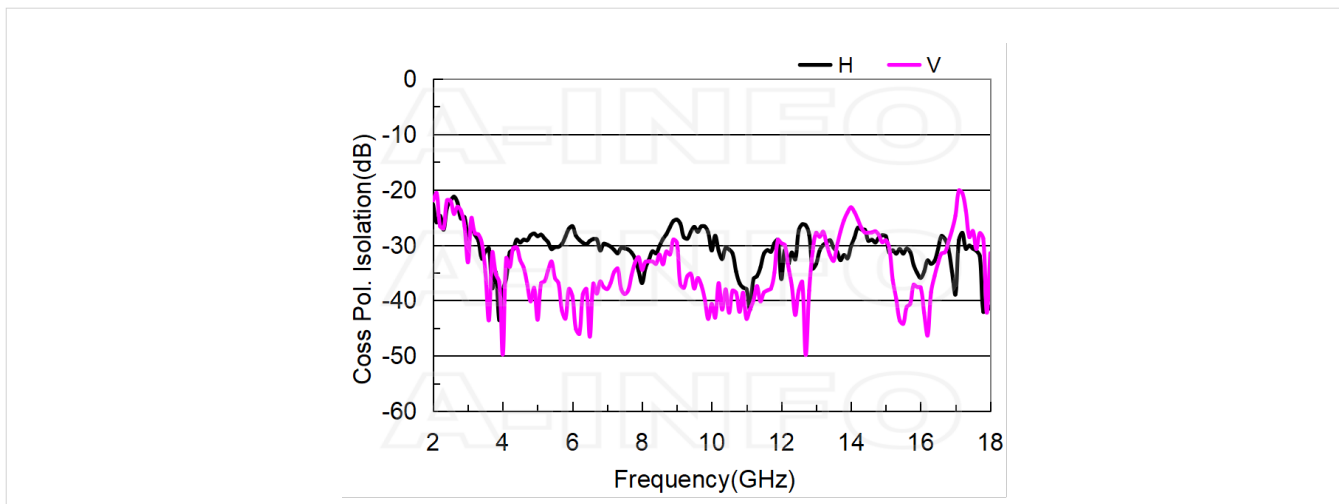
Gain



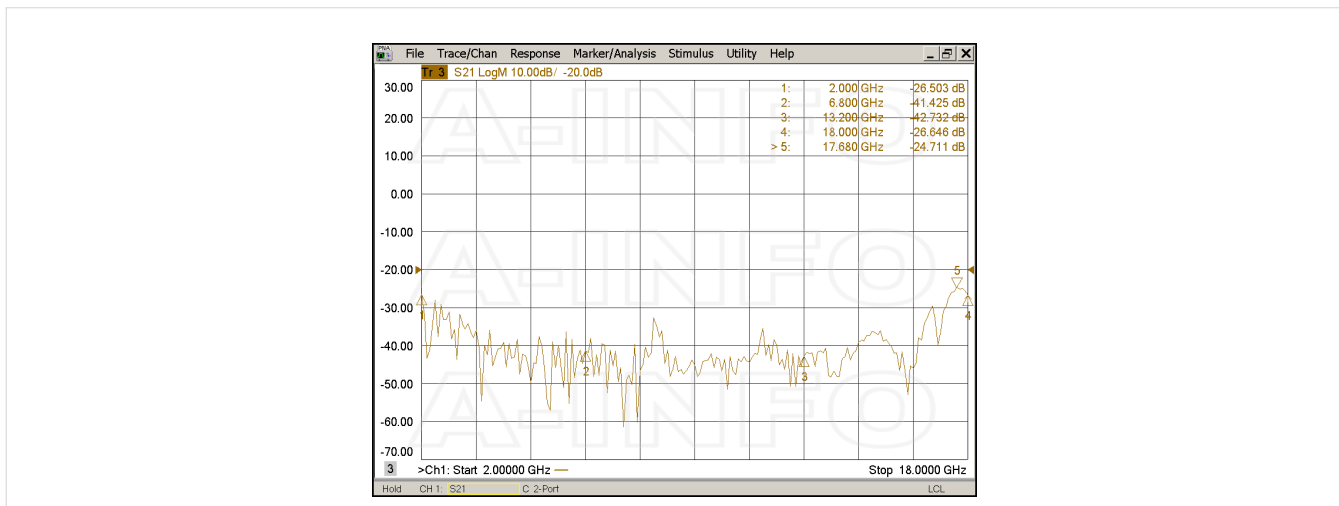
Antenna Factor



Cross Polarization Isolation

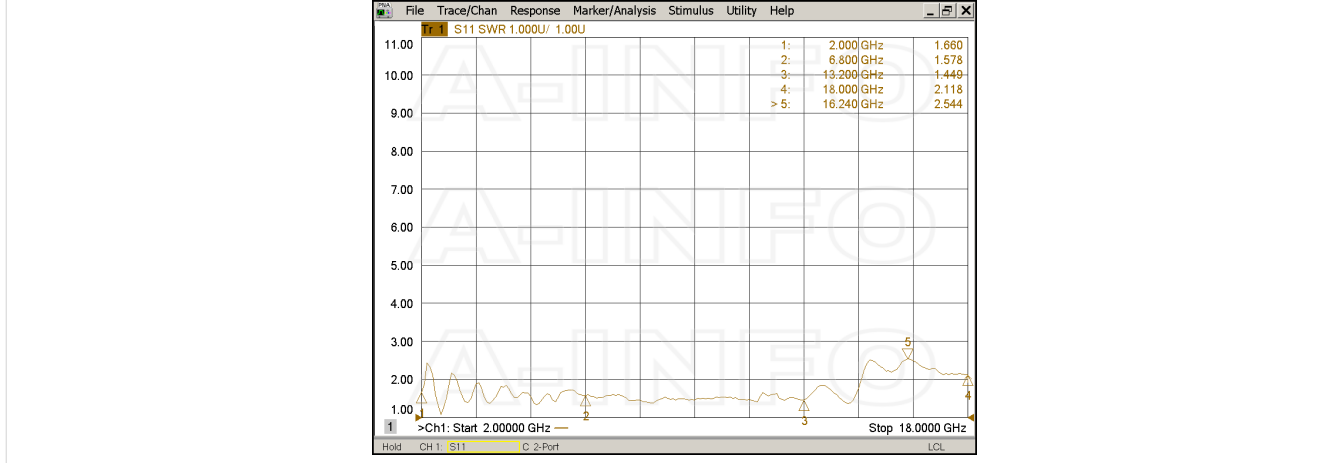


Port to Port Isolation

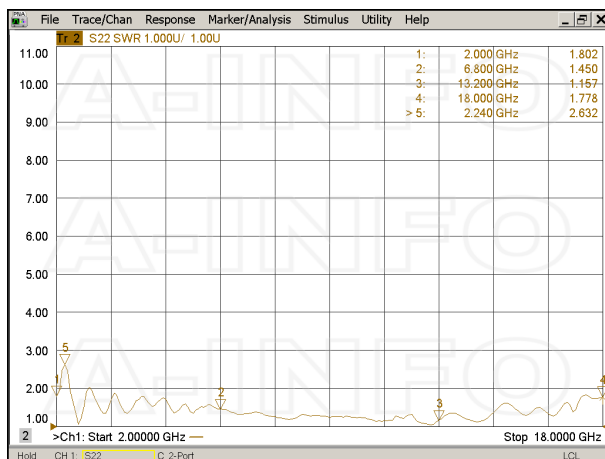


VSWR

Port-H

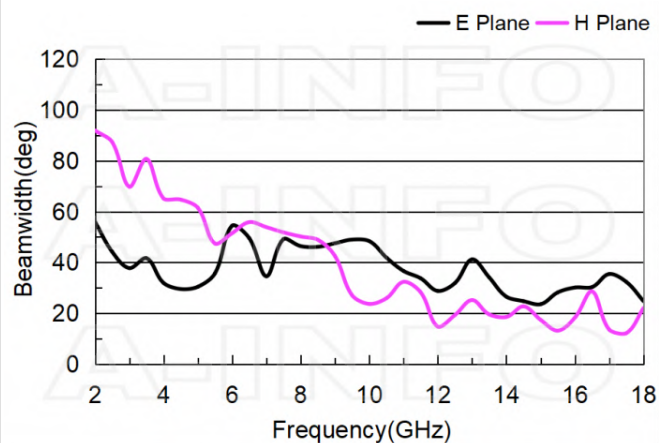


Port-V

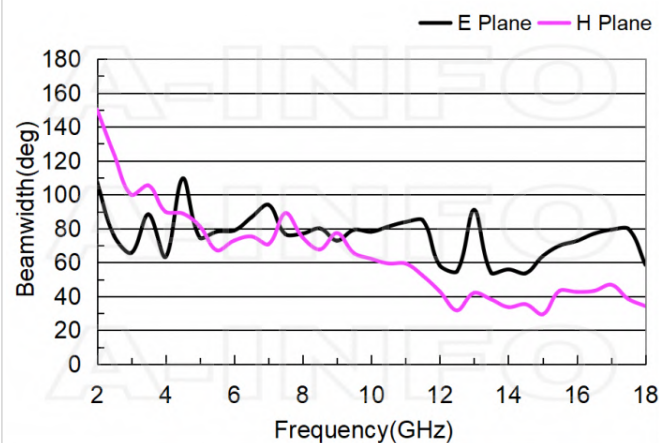


Beamwidth

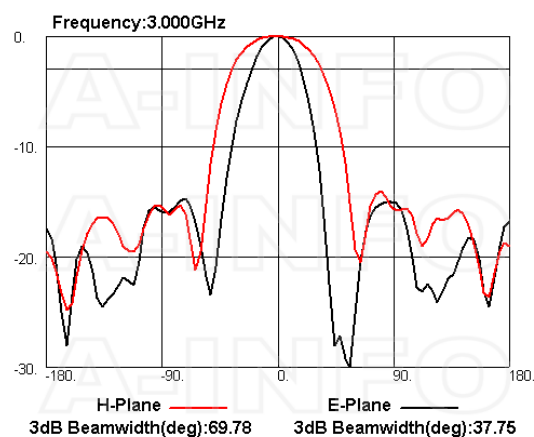
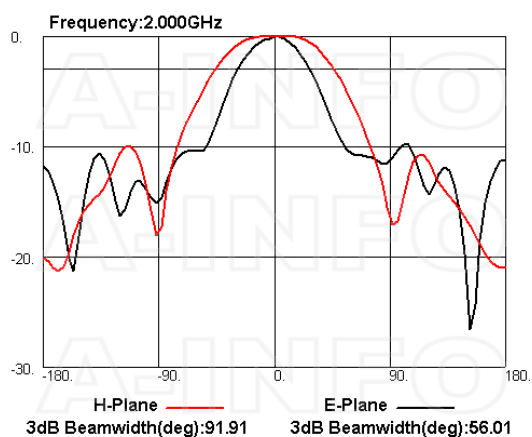
3dB Beamwidth

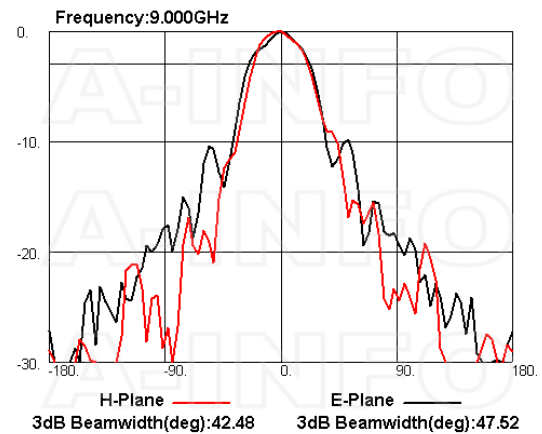
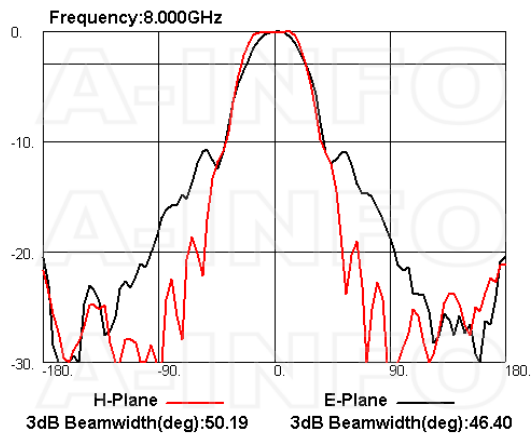
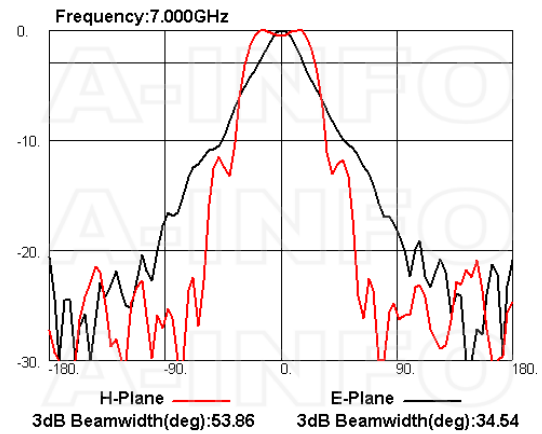
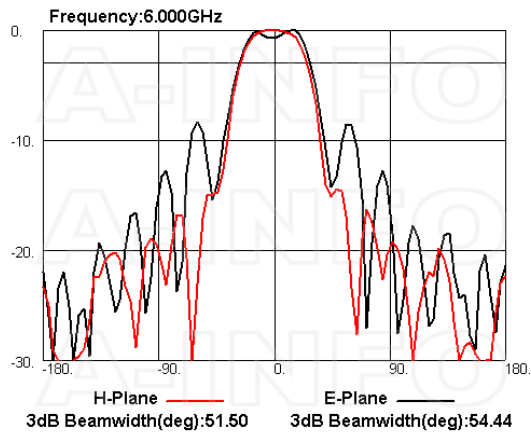
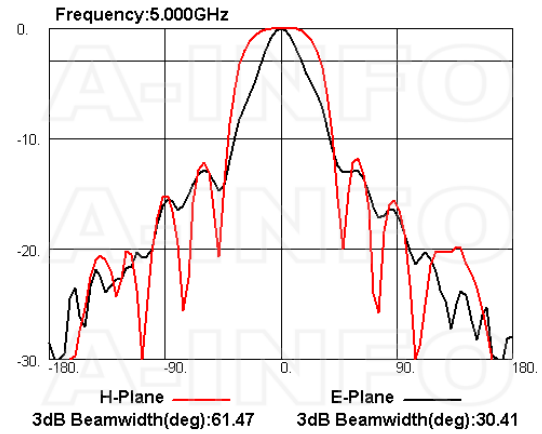
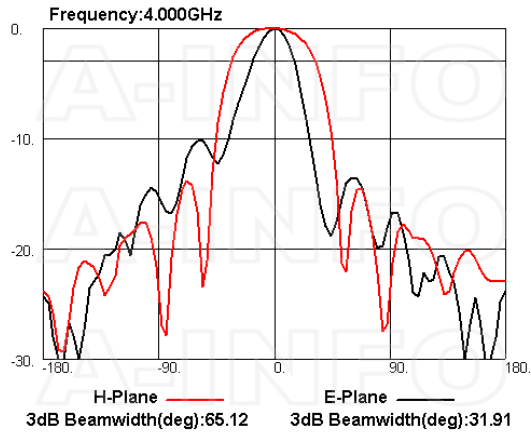


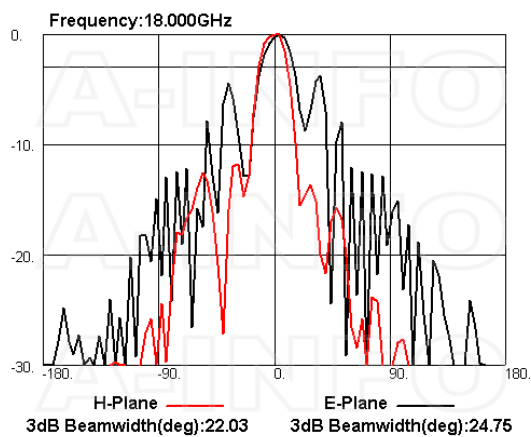
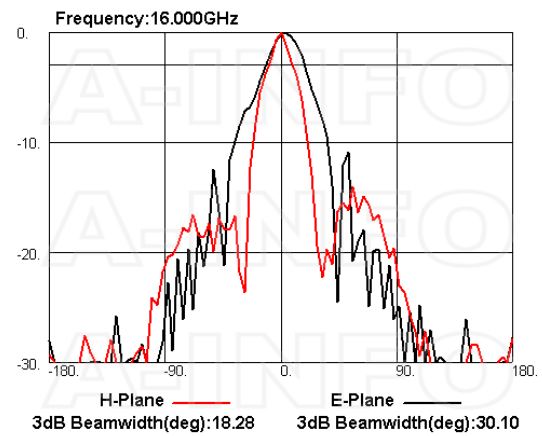
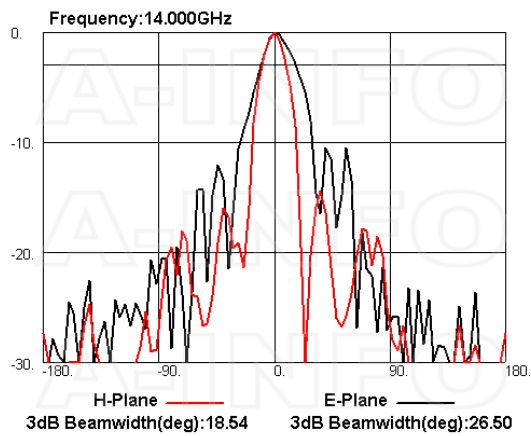
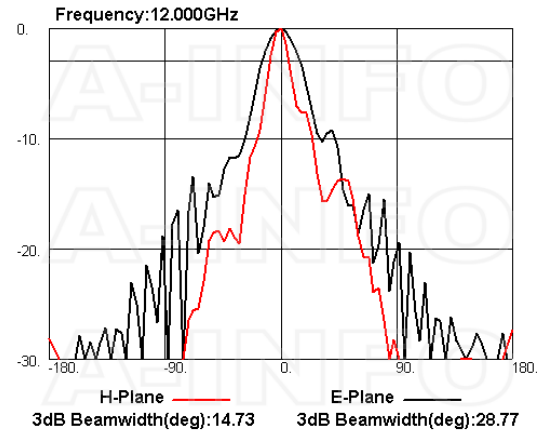
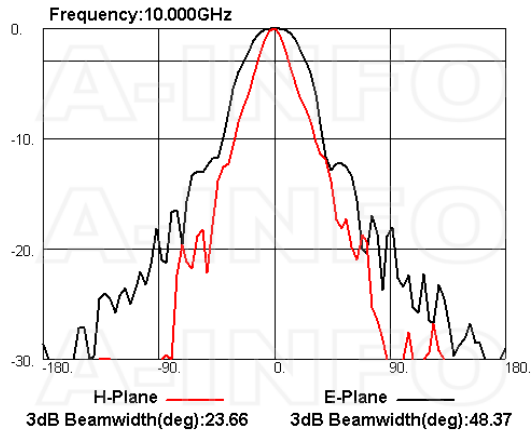
10dB Beamwidth



Pattern 1







Related Products



LB-20180-L L Type Mounting Bracket



Tripod_15Kg AI Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod Metalfree



Carrying Case_LB-OSJ-20180 AI Alloy Carrying Case



SM-SM-A050-500 Flexible Cable Assembly 500mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-1000 Flexible Cable Assembly 1000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-1500 Flexible Cable Assembly 1500mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-2000 Flexible Cable Assembly 2000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-3000 Flexible Cable Assembly 3000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-5000 Flexible Cable Assembly 5000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A050-10000 Flexible Cable Assembly 10000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-500 Flexible Cable Assembly 500mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-1000 Flexible Cable Assembly 1000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-1500 Flexible Cable Assembly 1500mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-2000 Flexible Cable Assembly 2000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-3000 Flexible Cable Assembly 3000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-5000 Flexible Cable Assembly 5000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-10000 Flexible Cable Assembly 10000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A080-20000 Flexible Cable Assembly 20000mm DC- 26.5GHz SMA Male to SMA Male



SM-SM-A100-500 Flexible Cable Assembly 500mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-1000 Flexible Cable Assembly 1000mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-1500 Flexible Cable Assembly 1500mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-2000 Flexible Cable Assembly 2000mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-3000 Flexible Cable Assembly 3000mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-5000 Flexible Cable Assembly 5000mm DC- 18GHz SMA Male to SMA Male



SM-SM-A100-10000 Flexible Cable Assembly 10000mm DC- 18GHz SMA Male to SMA Male

About this Datasheet

<ul style="list-style-type: none"> ● Product Information <p>Product Link: https://www.ainfoinc.com/lb-osj-20180-sf-open-boundary-quad-ridged-dual-polarization-horn-antenna-2-18-ghz-13db-gain-sma-female</p> <p>Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved</p>	<ul style="list-style-type: none"> ● Contact Us <p>Address: 60 Tesla, Irvine, CA 92618, USA</p> <p>Website: www.ainfoinc.com</p> <p>Email: sales@ainfoinc.com</p>	<ul style="list-style-type: none"> ● Phone & Fax <p>Phone: +1-949-639-9688 +1-949-639-9608</p> <p>Fax: +1-949-639-9670</p>
---	--	---