

42EWGK-A1 Open Ended Waveguide Probe 18-26.5GHz 5dB Gain
2.92mm Female Equipped with Absorber

WR42 Open Ended Waveguide Probe From 18GHz to 26.5GHz With a Nominal 5dB Gain With Right Angle Coaxial 2.92mm Female Connector and Equipped with Absorber

Product Information

SKU	42EWGK-A1
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Description

Open ended waveguide Probe 42EWGK-A1, operating from 18 to 26.5GHz with a nominal 5dB gain and low VSWR 2.0:1 with right angle coaxial 2.92mm Female output connector. The model 42EWGK-A1 is equipped with absorber for better gain flatness and radiation pattern. A small degree chamfer is utilized to give a knife-edge aperture of this model to minimize the end diffraction. This open ended waveguide probe has linear polarization and designed specifically for planar and cylindrical near field measurements and calibration.

Technical Specification

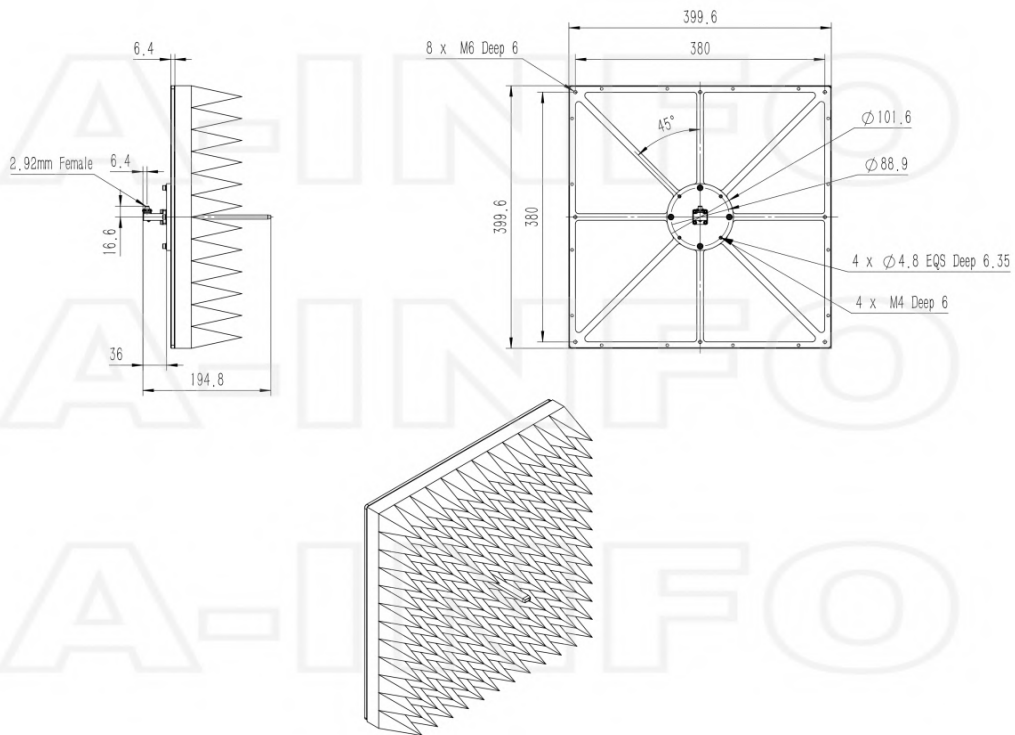
Electrical Specification		Interface	
Frequency, Min (GHz)	18	Output Type	Coaxial
Frequency, Max (GHz)	26.5	Connector	2.92mm(K)
Waveguide Type	Rectangular	Connector Gender	Female
Waveguide Size EIA WR	WR42	Mechanical Specification	
Gain, Typ (dBi)	5	Body Material	Cu
Polarization	Linear	Finish	Gold Plated, Silver Plated and Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Typ (Deg.)	123	Size, W (mm)	399.6
3dB Beamwidth, H-Plane, Typ (Deg.)	63	Size, H (mm)	399.6
Cross Pol. Isolation, Typ (dB)	40	Size, L (mm)	194.8
VSWR, Typ	2.0:1	Weight, (kg)	2.8
Impedance, (Ohm)	50		
Power Handling, CW, (W)	20		
Power Handling, Peak, (W)	40		

Additional Information

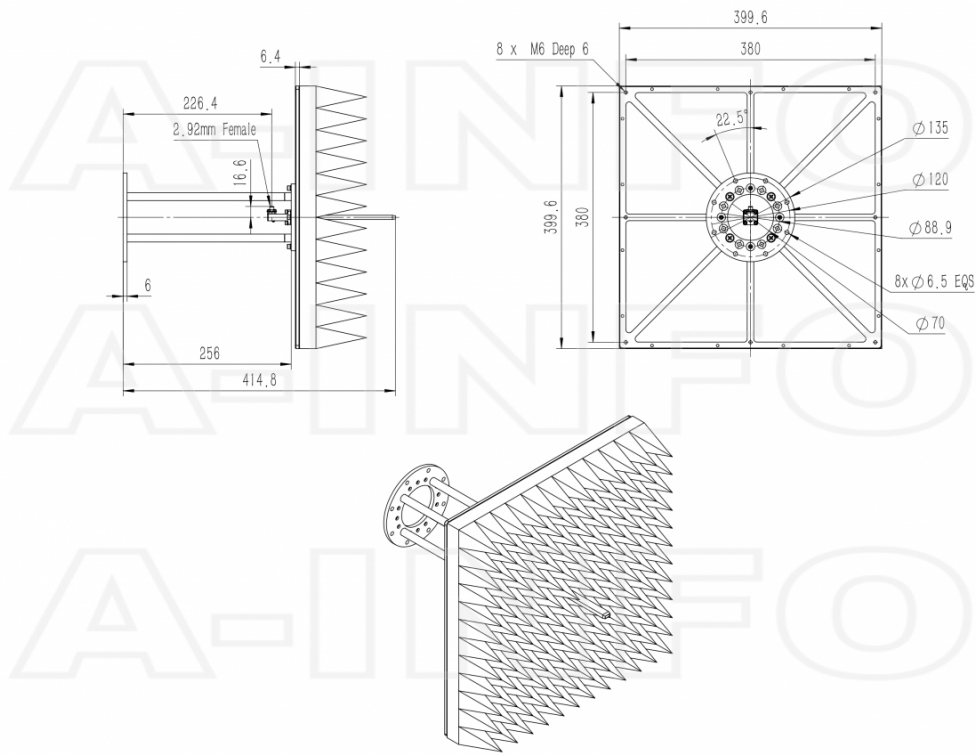
Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Planar Near-Field Measurement Cylindrical Near-Field Measurement Spherical Near-Field Measurement
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Outline Drawing

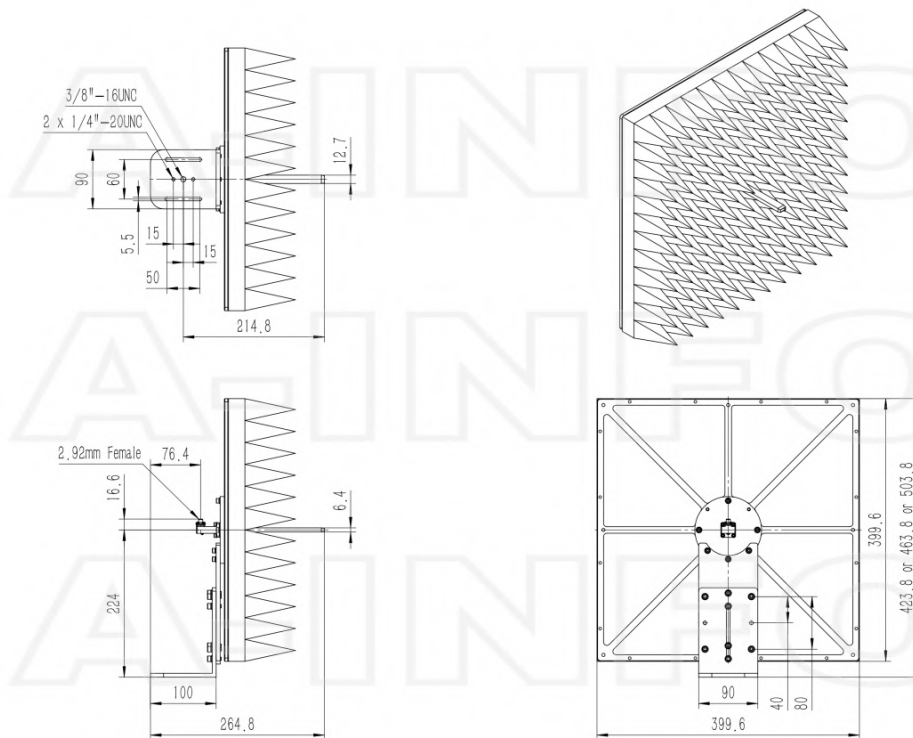
2.92mm-Female Output, Equipped with Absorber (Option, P/N: 42EWGK-A1)



2.92mm-Female Output with Round Mounting Bracket, Equipped with Absorber (Option, P/N: EWG-MB40 & 42EWGK-A1)

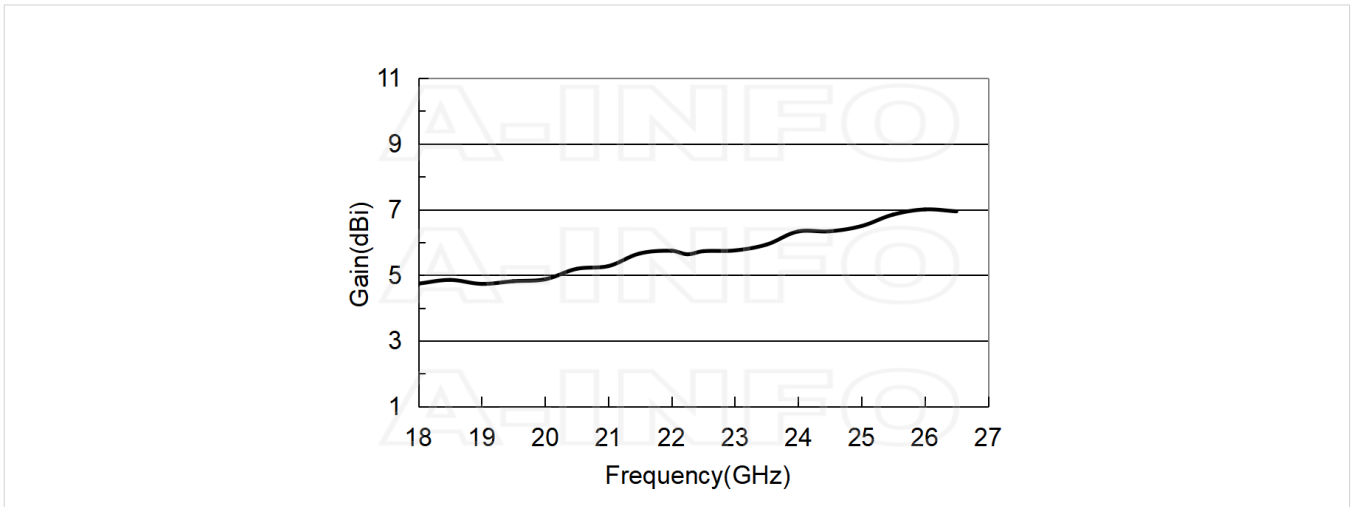


2.92mm-Female Output with L Type Mounting Bracket, Equipped with Absorber (Option, P/N: EWG-L40 & 42EWGK-A1)

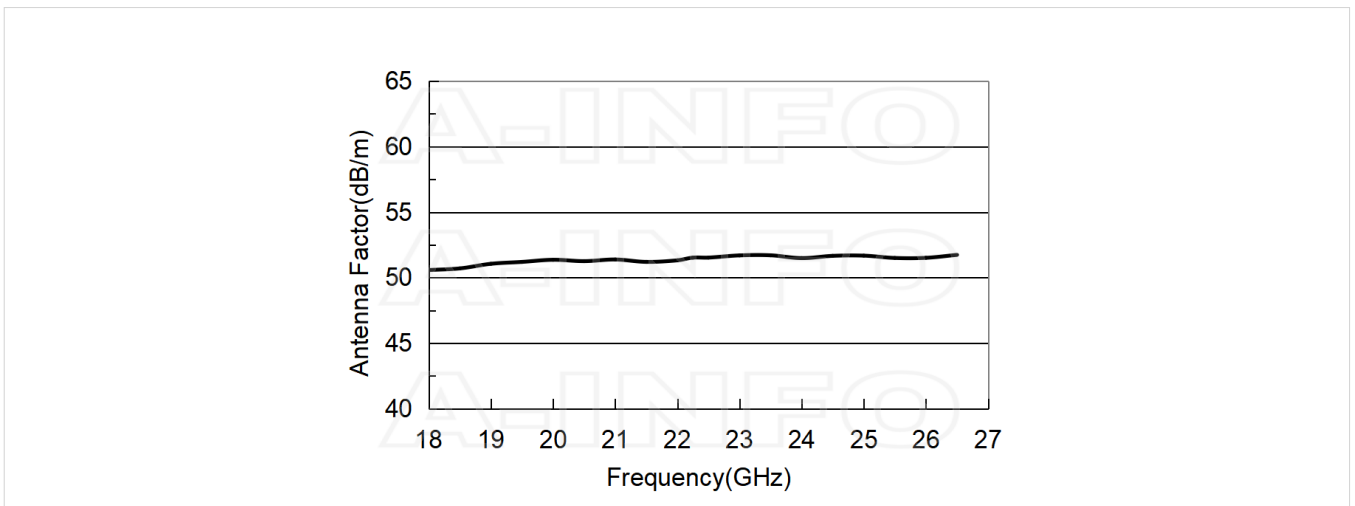


Typical Test Results

Gain



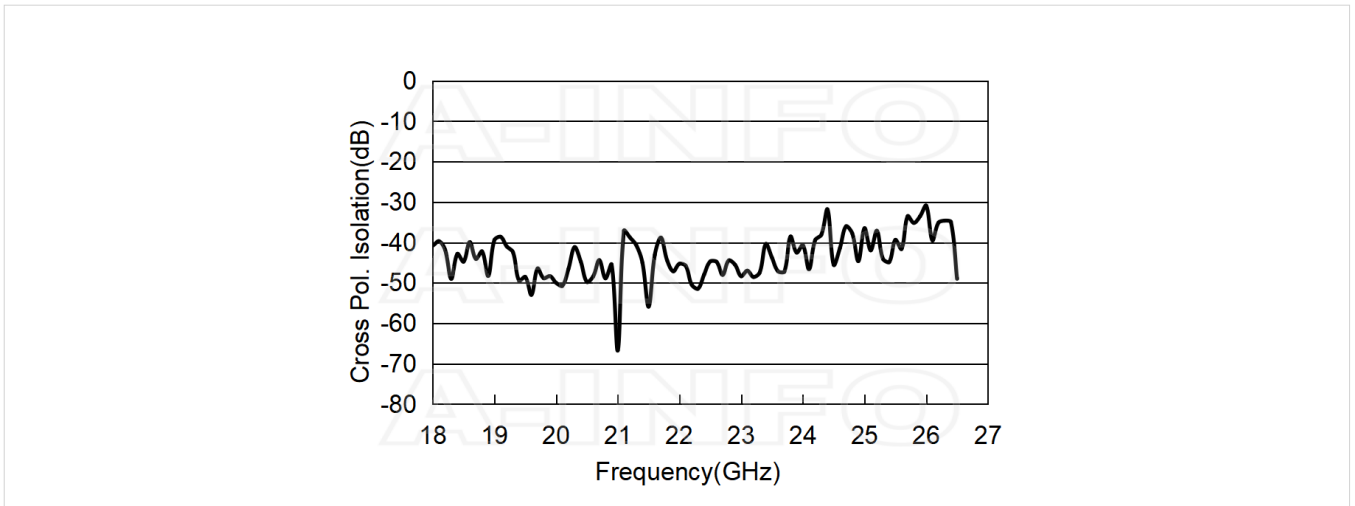
Antenna Factor



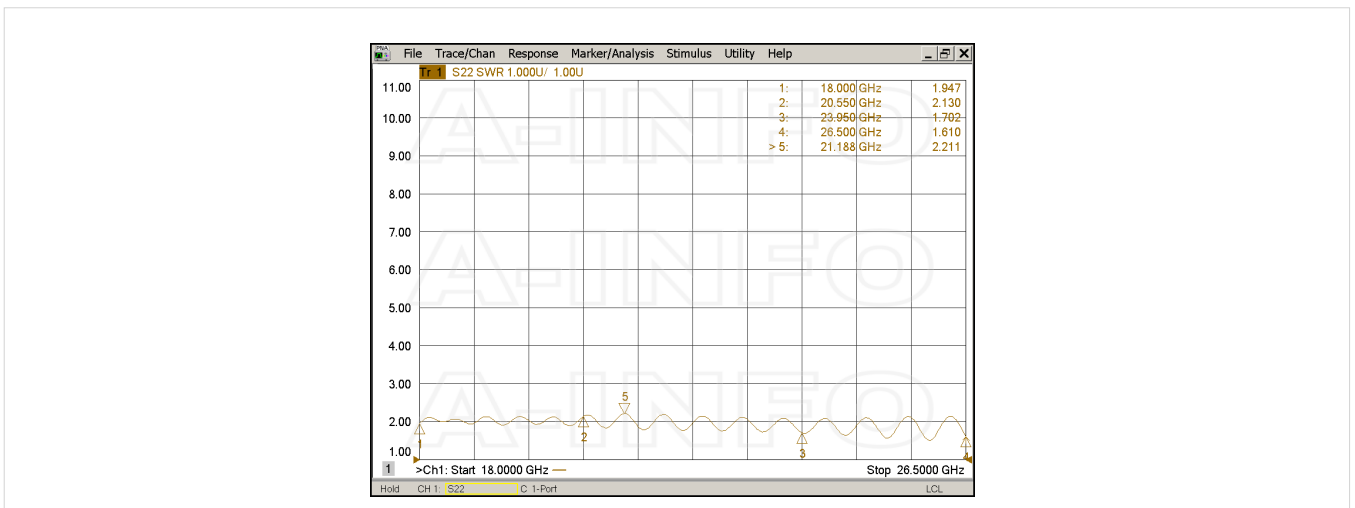
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	Antenna Factor(dB/m)
18.0	4.74	50.57
19.0	4.73	51.05
20.0	4.87	51.36
21.0	5.28	51.38
22.0	5.74	51.32
22.25	5.64	51.52
23.0	5.75	51.69
24.0	6.33	51.48
25.0	6.49	51.67
26.0	7.00	51.51
26.5	6.94	51.73

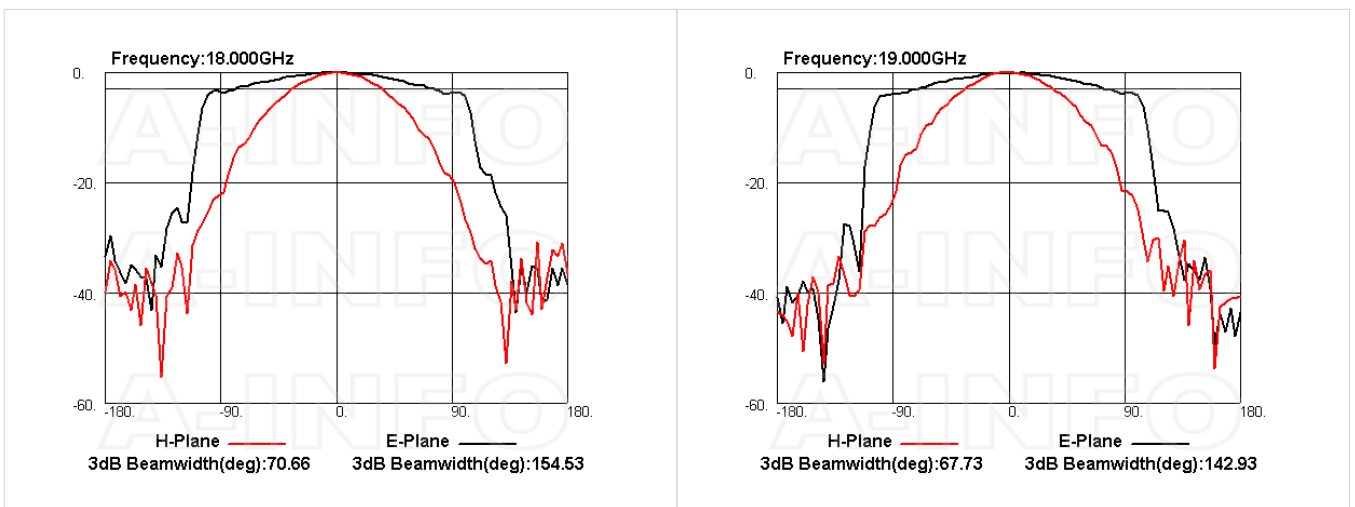
Cross Polarization Isolation

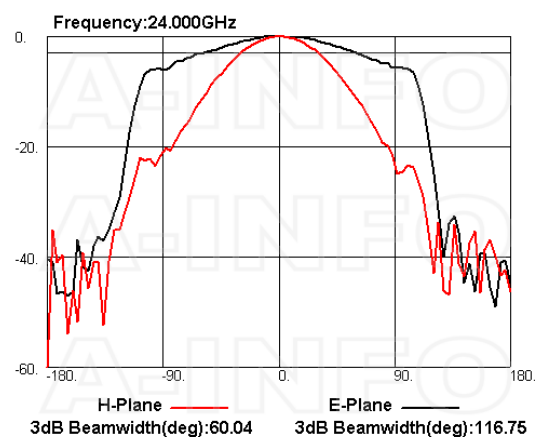
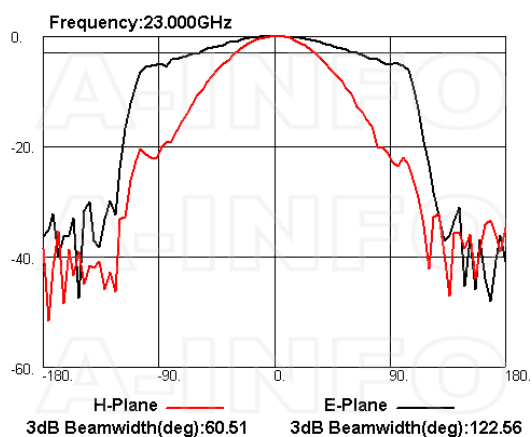
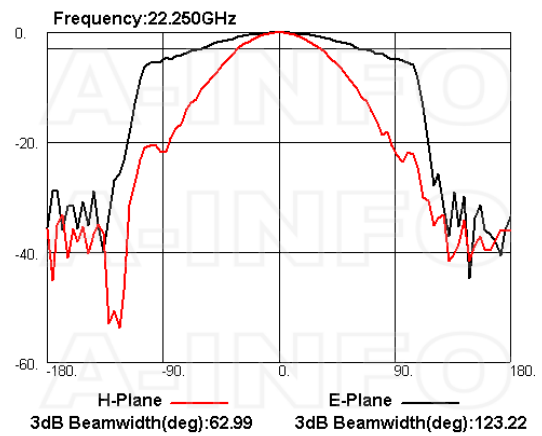
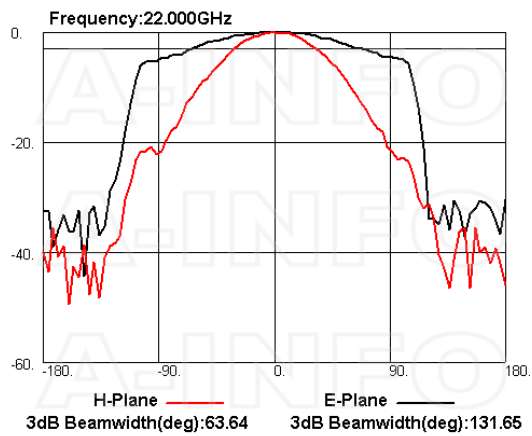
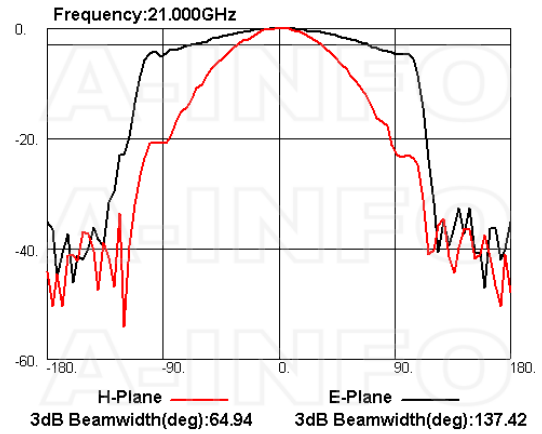
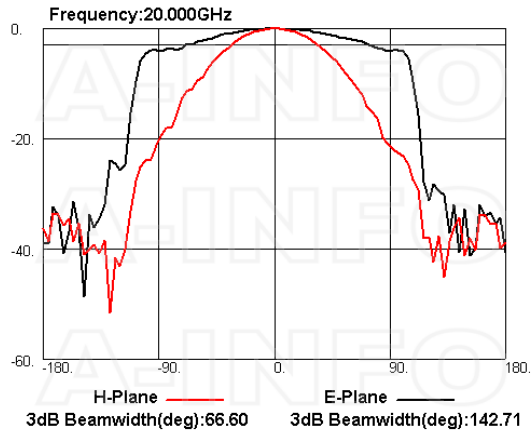


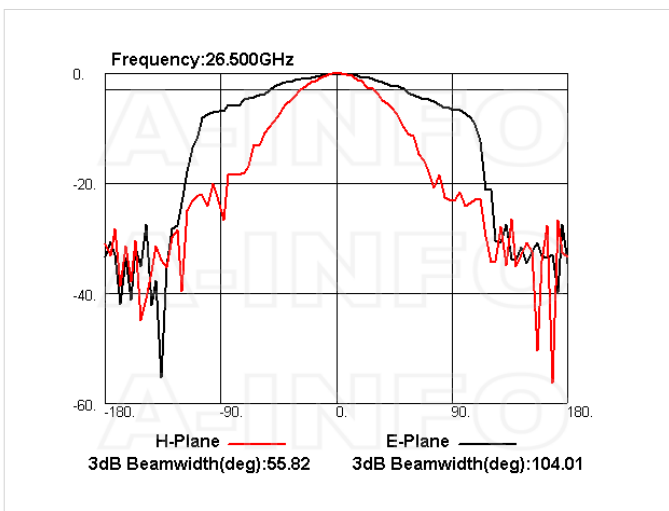
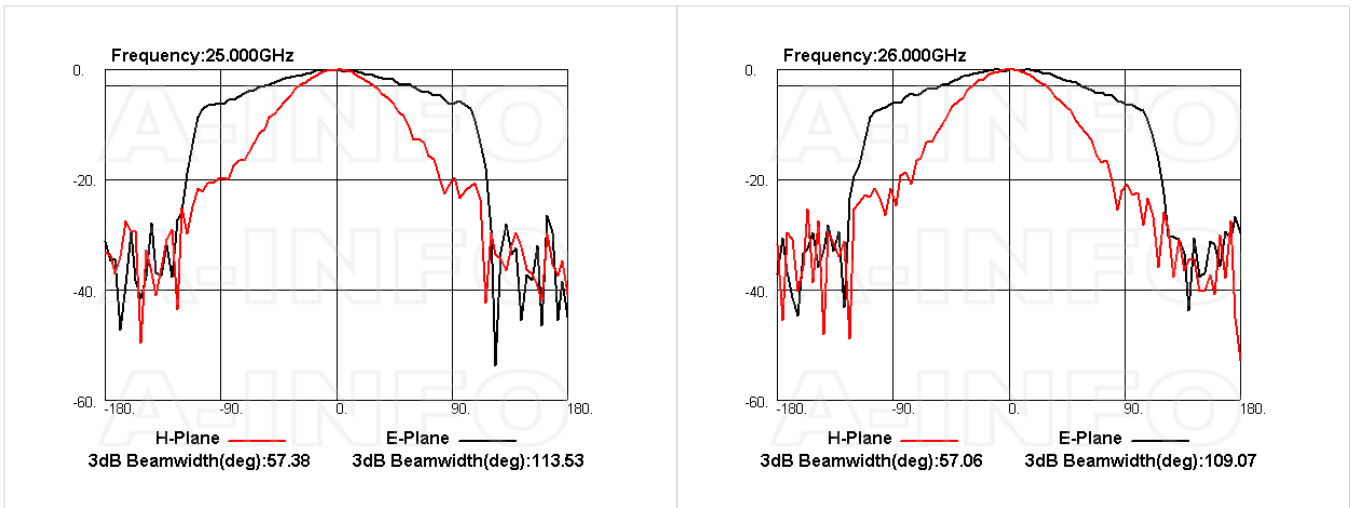
VSWR



Pattern







Related Products



EWG-MB40 Round Type Mounting Bracket



EWG-L40 L Type Mounting Bracket



Carrying Case_90EWG-A1 Al Alloy Carrying Case

Similar Products



42EWG-A1 Open Ended Waveguide Probe 18-26.5GHz 5dB Gain Rectangular Waveguide Interface Equipped with Absorber



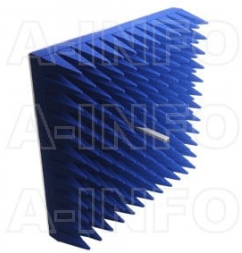
42EWGS Open Ended Waveguide Probe 18-26.5GHz 5dB Gain SMA Female



42EWGK Open Ended Waveguide Probe 18-26.5GHz 5dB Gain 2.92mm Female



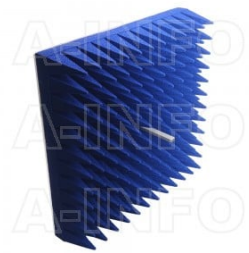
42EWG3.5 Open Ended Waveguide Probe 18-26.5GHz 5dB Gain 3.5mm Female



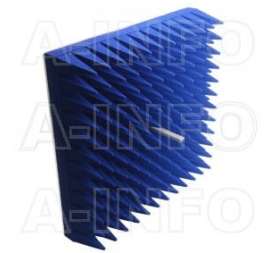
42EWGS-A1 Open Ended Waveguide Probe 18-26.5GHz 5dB Gain SMA Female Equipped with Absorber



42EWG3.5-A1 Open Ended Waveguide Probe 18-26.5GHz 5dB Gain 3.5mm Female Equipped with Absorber



42EWGES-A1 Open Ended Waveguide Probe 18-26.5GHz 5dB Gain SMA Female Equipped with Absorber



42EWGEK-A1 Open Ended Waveguide Probe 18-26.5GHz 5dB Gain 2.92mm Female Equipped with Absorber



42EWG-T02-A1 Dual Polarization Waveguide Probes 18-26.5GHz 8dB Gain Rectangular Waveguide Interface Equipped with Absorber



42EWGS-T02-A1 Dual Polarization Waveguide Probes 18-26.5GHz 8dB Gain SMA Female Equipped with Absorber



42EWG3.5-T02-A1 Dual Polarization Waveguide Probes 18-26.5GHz 8dB Gain 3.5mm Female Equipped with Absorber



42EWGSE-T02-A1 Dual Polarization Waveguide Probes 18-26.5GHz 8dB Gain SMA Female Equipped with Absorber



42EWGK-T02-A1 Dual
Polarization Waveguide Probes
18-26.5GHz 8dB Gain 2.92mm
Female Equipped with Absorber



42EWGKE-T02-A1 Dual
Polarization Waveguide Probes
18-26.5GHz 8dB Gain 2.92mm
Female Equipped with Absorber

About this Datasheet

<ul style="list-style-type: none"> • Product Information Product Link: https://www.ainfoinc.com/42ewgk-a1-open-ended-waveguide-probe-18-26-5-ghz-5db-gain-2-92mm-female Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved 	<ul style="list-style-type: none"> • Contact Us Address: 60 Tesla, Irvine, CA 92618, USA Website: www.ainfoinc.com Email: sales@ainfoinc.com 	<ul style="list-style-type: none"> • Phone & Fax Phone: +1-949-639-9688 +1-949-639-9608 Fax: +1-949-639-9670
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