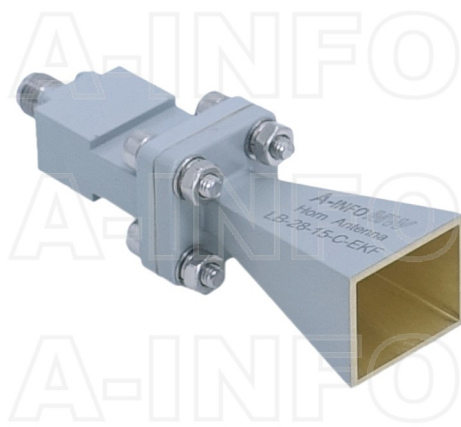




LB-28-15-C-EKF Standard Gain Horn Antenna 26.5-40GHz 15dB Gain Endlaunch 2.92mm Female

Standard Gain Horn Antenna Operating From 26.5GHz to 40GHz With a Nominal 15dB Gain With Endlaunch 2.92mm Female Connector

## Product Information

|     |                |
|-----|----------------|
| SKU | LB-28-15-C-EKF |
|-----|----------------|

## Description

Standard Gain Horn Antenna LB-28-15-C-EKF, operating from 26.5 to 40GHz with a nominal 15dB gain and low VSWR 1.25:1 with Endlaunch 2.92mm Female connector output. The model LB-28-15-C-EKF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 20W continuously and 40W 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

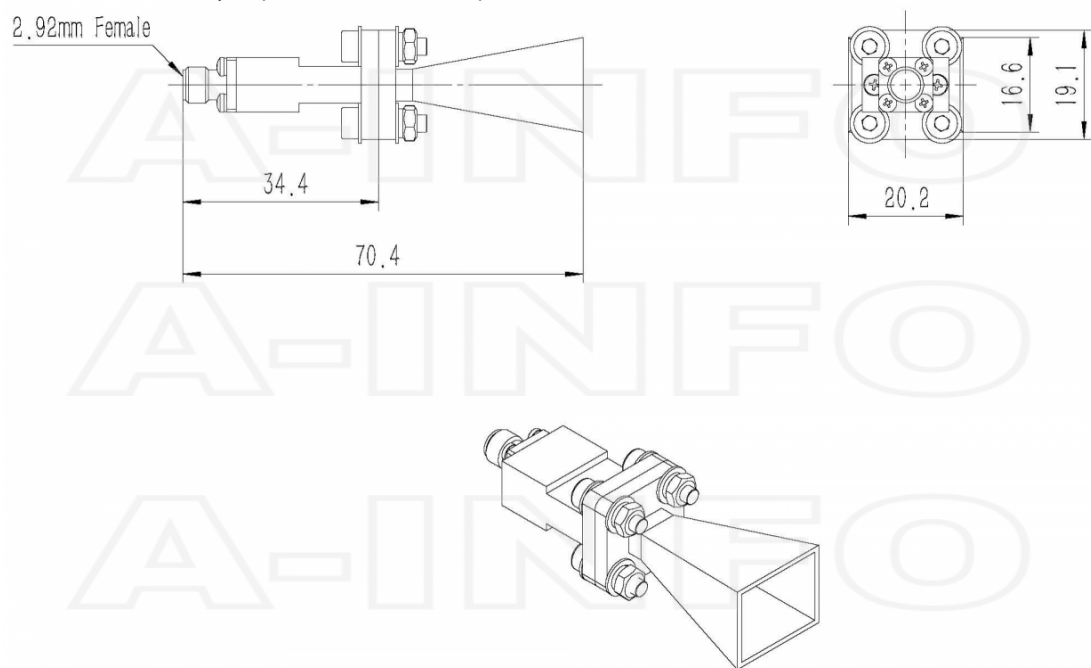
| Electrical Specification           |             | Interface                |                                         |
|------------------------------------|-------------|--------------------------|-----------------------------------------|
| Frequency, Min (GHz)               | 26.5        | Output Type              | Coaxial                                 |
| Frequency, Max (GHz)               | 40          | Connector                | 2.92mm(K)                               |
| Waveguide Type                     | Rectangular | Connector Gender         | Female                                  |
| Waveguide Size EIA WR              | WR28        | Mechanical Specification |                                         |
| Gain, Typ (dBi)                    | 15          | Figure                   | C Type                                  |
| Polarization                       | Linear      | Body Material            | Cu                                      |
| 3dB Beamwidth, E-Plane, Typ (Deg.) | 30          | Finish                   | Gold Plated and Passivation, Gray Paint |
| 3dB Beamwidth, H-Plane, Typ (Deg.) | 32          | Size, W (mm)             | 20.2                                    |
| Cross Pol. Isolation, Typ (dB)     | 35          | Size, H (mm)             | 19.1                                    |
| VSWR, Typ                          | 1.25:1      | Size, L (mm)             | 70.4                                    |
| Impedance, (Ohm)                   | 50          | Weight, (kg)             | 0.07                                    |
| Power Handling, CW, (W)            | 20          |                          |                                         |
| Power Handling, Peak, (W)          | 40          |                          |                                         |

### Additional Information

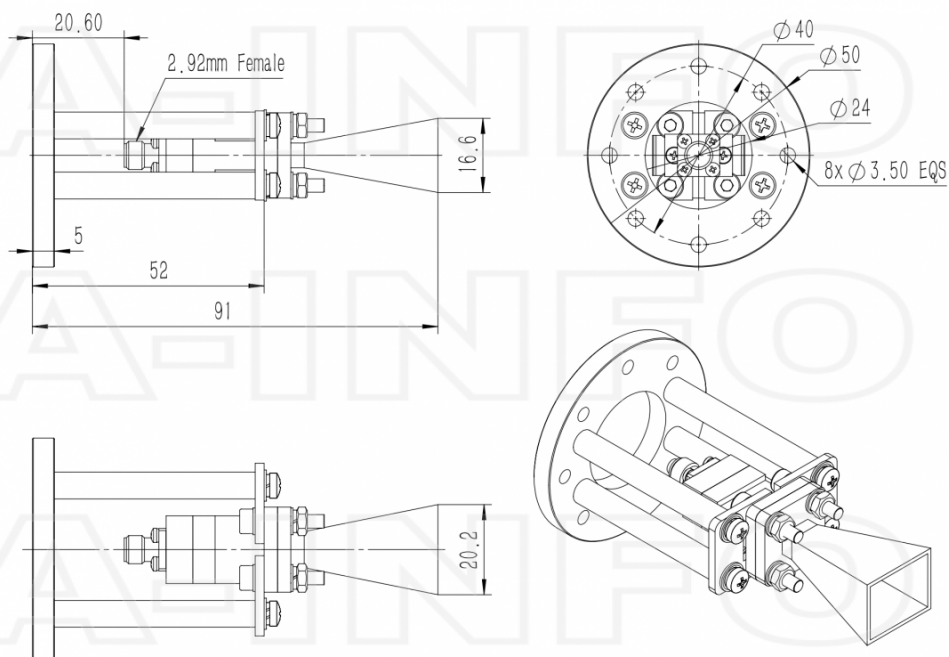
|             |                                         |              |                                                                                                                                 |
|-------------|-----------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| Application | General Purpose Indoor & Outdoor, Fixed | Solution for | Gain Reference<br>Antenna Measurement<br>Reflector Feed<br>Far-field Measurement<br>System Intergration<br>Material Measurement |
|-------------|-----------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|

### Outline Drawing

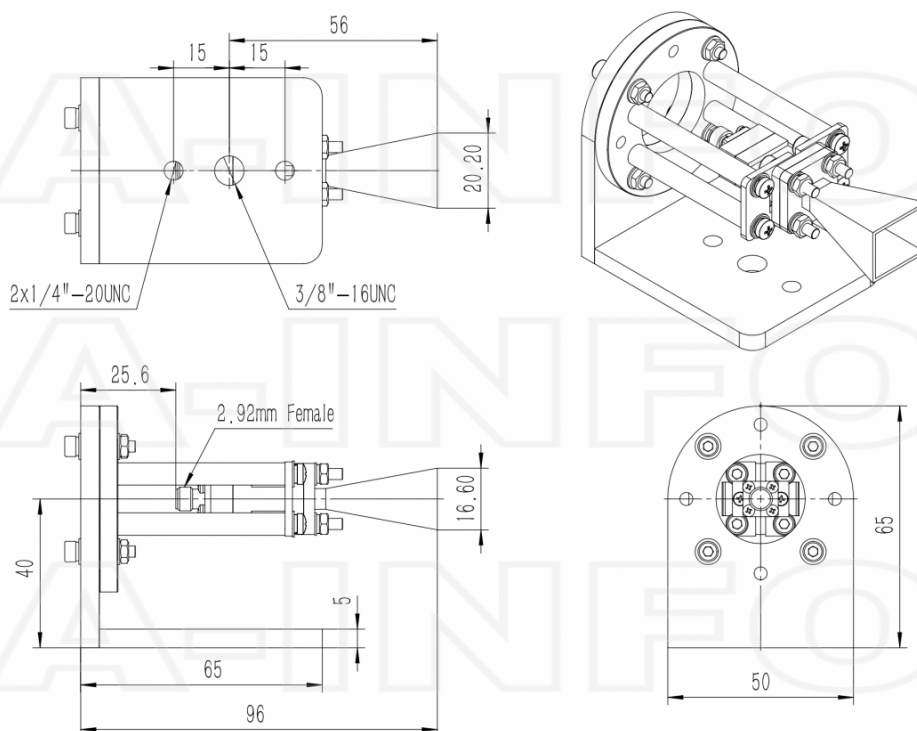
Endlaunch 2.92mm-Female Output (P/N: LB-28-15-C-EKF)



### Endlaunch 2.92mm-Female Output with Round Mounting Bracket (Option, P/N: LB-28-10-C-MB)

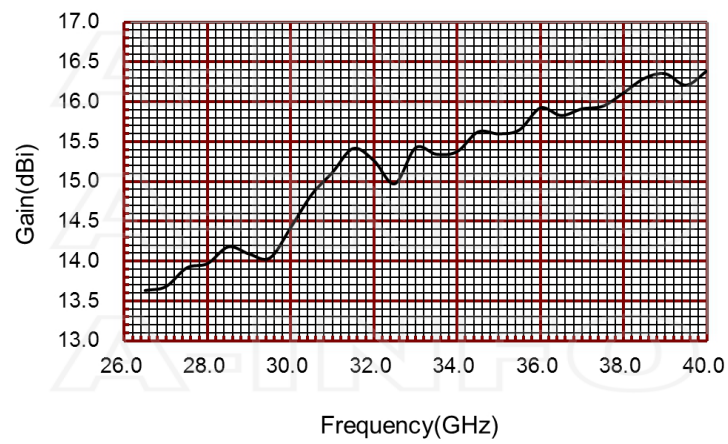


### Endlaunch 2.92mm-Female Output with L Type Mounting Bracket (Option, P/N: LB-28-10-C-MBL)

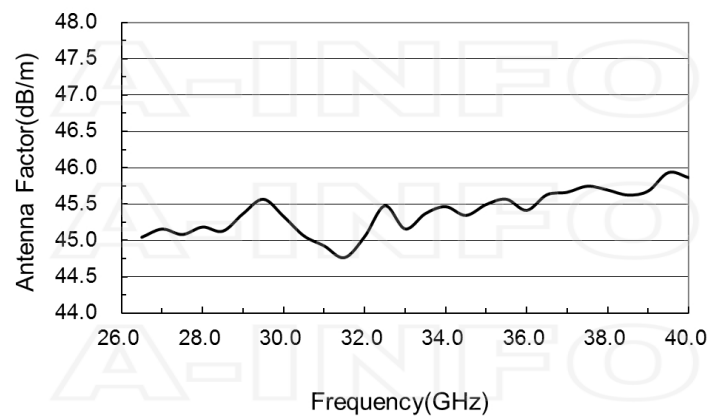


## Typical Test Results

### Gain



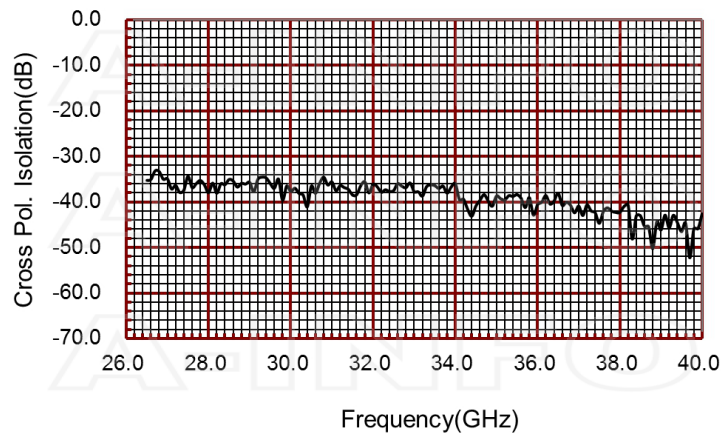
### Antenna Factor



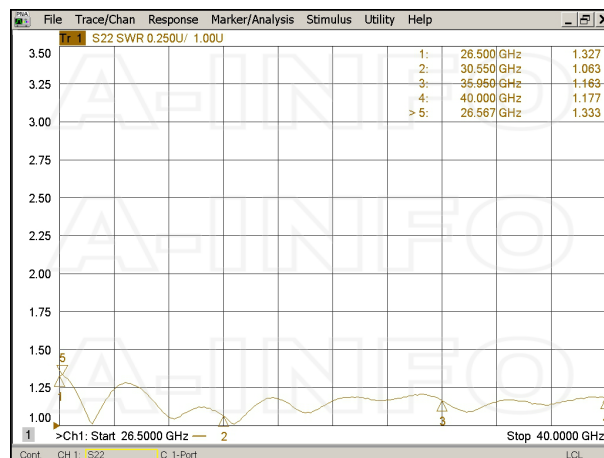
### Antenna Factor (Table)

| Frequency (GHz) | Gain (dBi) | Antenna Factor (dB/m) |  | Frequency (GHz) | Gain (dBi) | Antenna Factor (dB/m) |
|-----------------|------------|-----------------------|--|-----------------|------------|-----------------------|
| 26.5            | 13.63      | 45.04                 |  | 33.5            | 15.34      | 45.37                 |
| 27.0            | 13.68      | 45.15                 |  | 34.0            | 15.37      | 45.46                 |
| 27.5            | 13.91      | 45.08                 |  | 34.5            | 15.62      | 45.34                 |
| 28.0            | 13.97      | 45.18                 |  | 35.0            | 15.60      | 45.49                 |
| 28.5            | 14.17      | 45.12                 |  | 35.5            | 15.65      | 45.57                 |
| 29.0            | 14.09      | 45.37                 |  | 36.0            | 15.92      | 45.41                 |
| 29.5            | 14.04      | 45.57                 |  | 36.5            | 15.83      | 45.63                 |
| 30.0            | 14.42      | 45.33                 |  | 37.0            | 15.91      | 45.66                 |
| 30.5            | 14.83      | 45.06                 |  | 37.5            | 15.94      | 45.75                 |
| 31.0            | 15.11      | 44.92                 |  | 38.0            | 16.11      | 45.69                 |
| 31.5            | 15.41      | 44.76                 |  | 38.5            | 16.29      | 45.62                 |
| 32.0            | 15.26      | 45.05                 |  | 39.0            | 16.35      | 45.68                 |
| 32.5            | 14.97      | 45.48                 |  | 39.5            | 16.21      | 45.93                 |
| 33.0            | 15.42      | 45.16                 |  | 40.0            | 16.39      | 45.86                 |

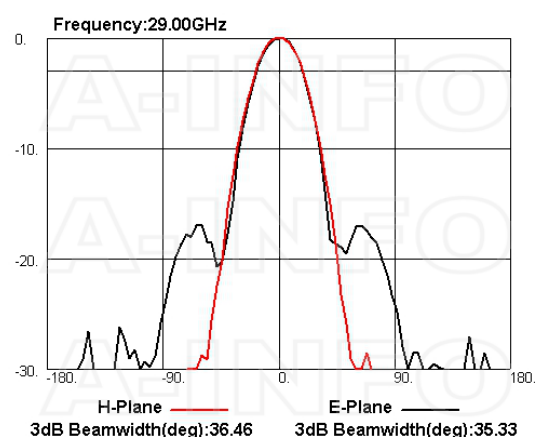
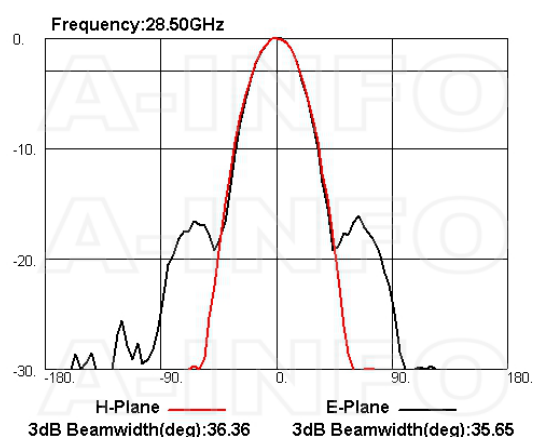
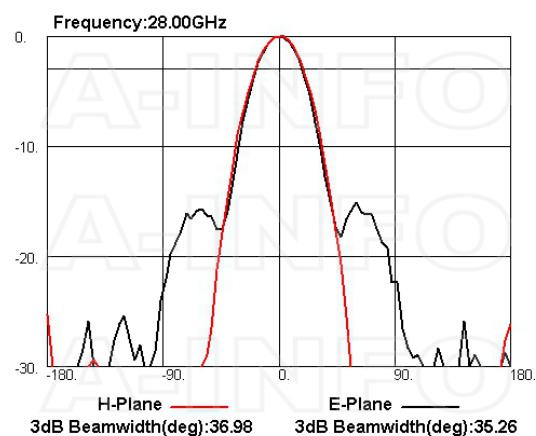
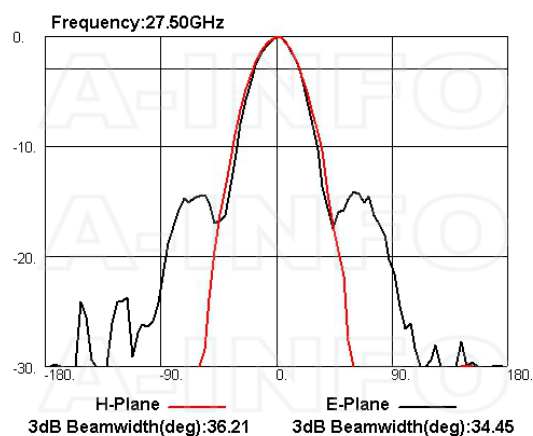
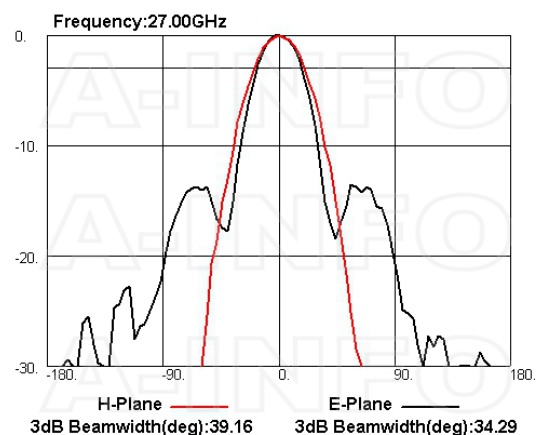
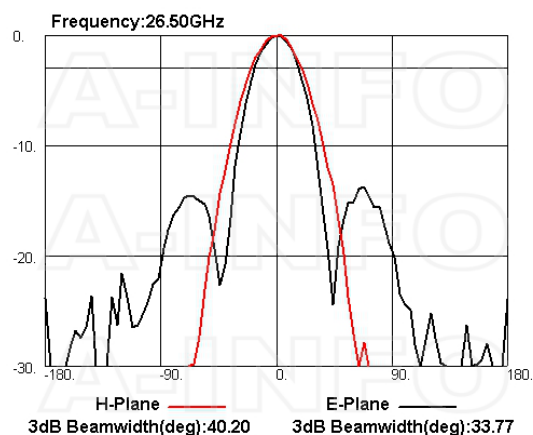
### Cross Polarization Isolation

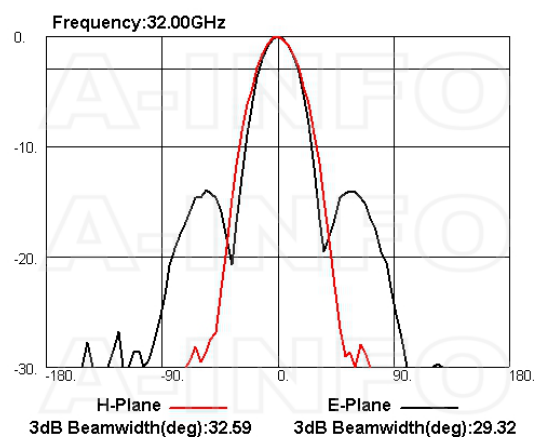
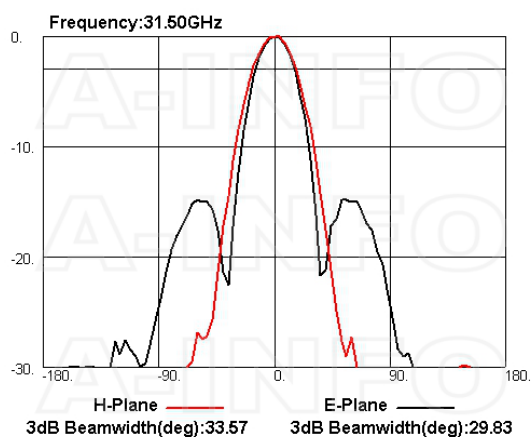
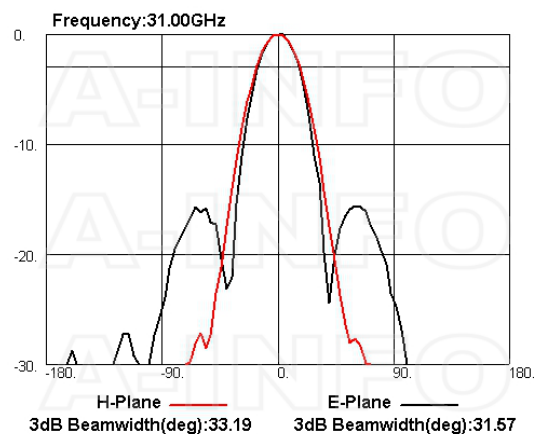
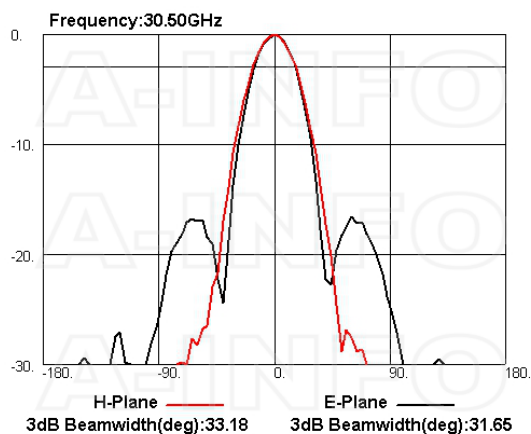
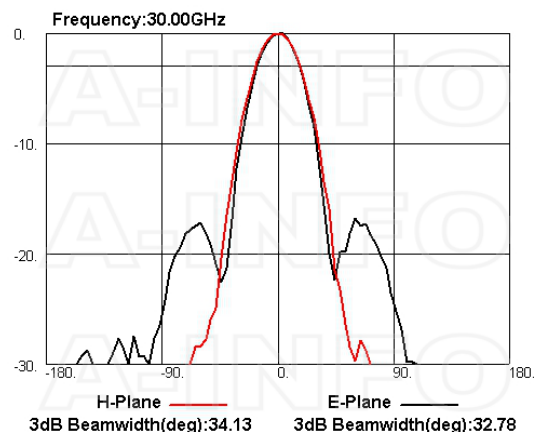
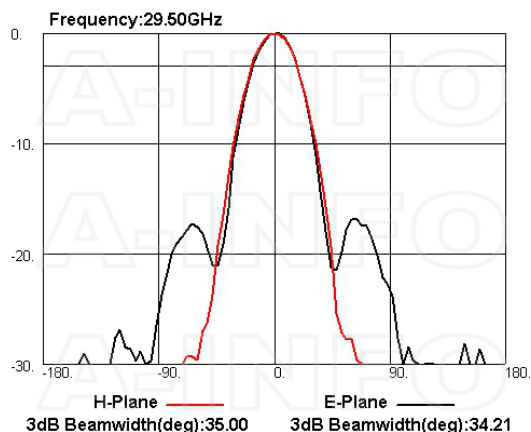


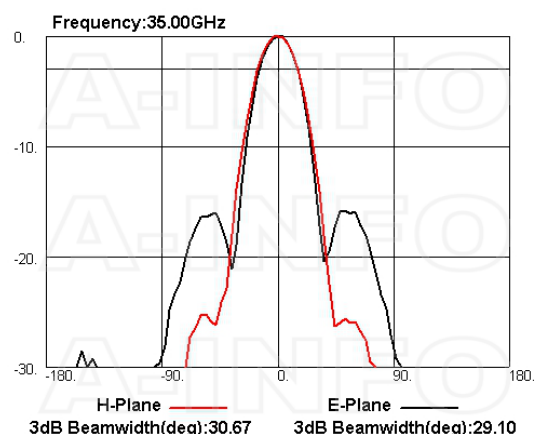
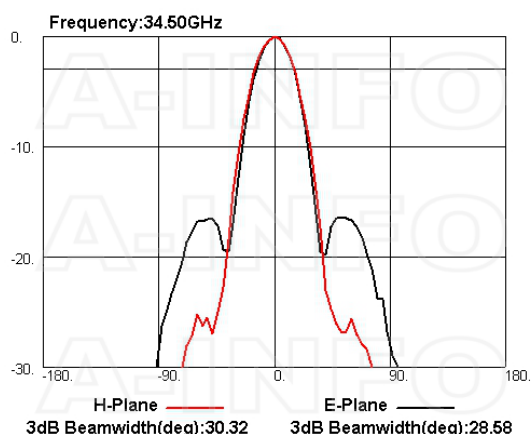
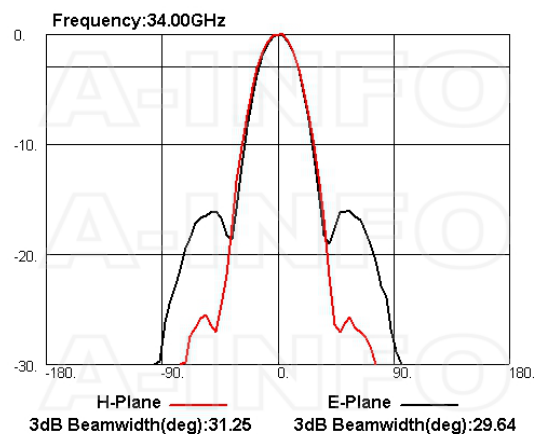
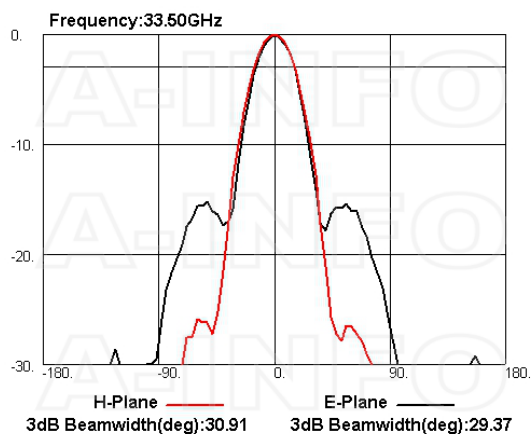
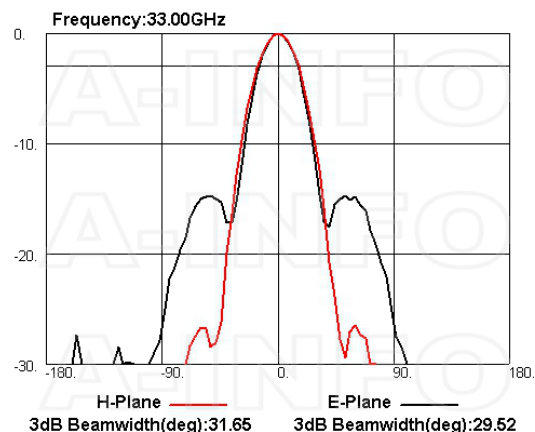
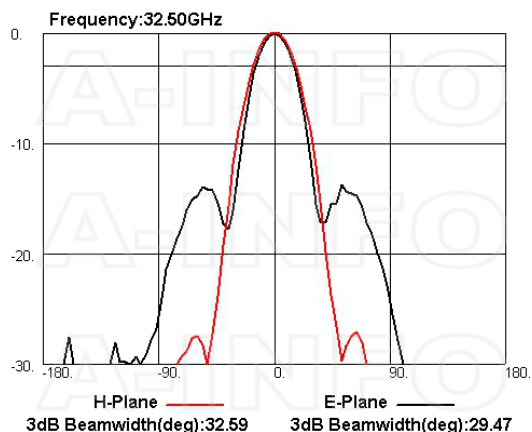
### VSWR

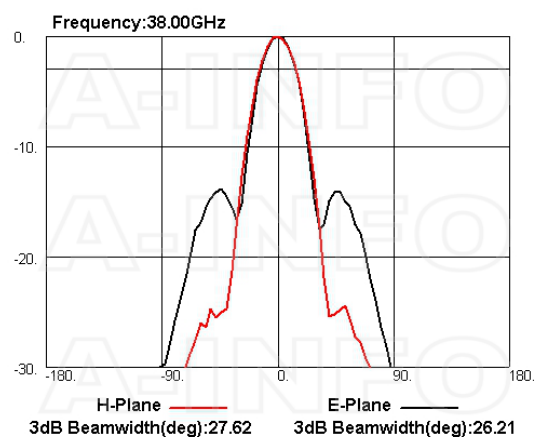
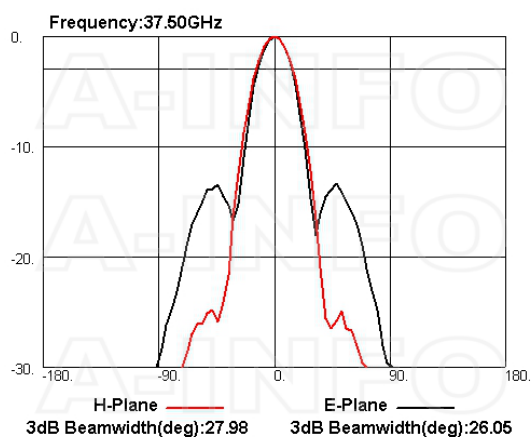
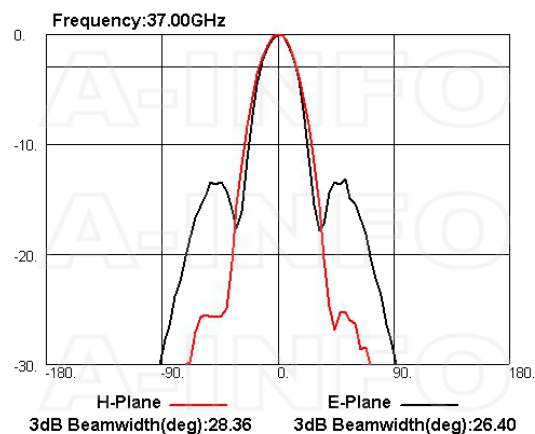
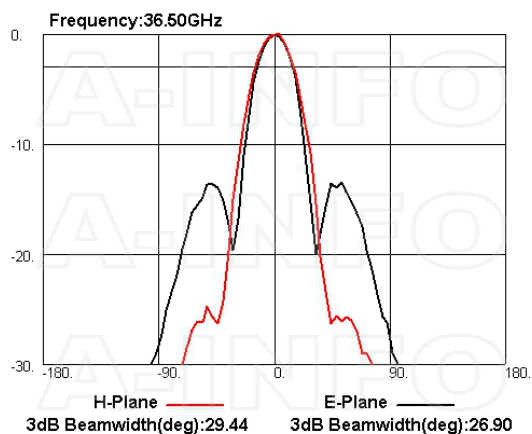
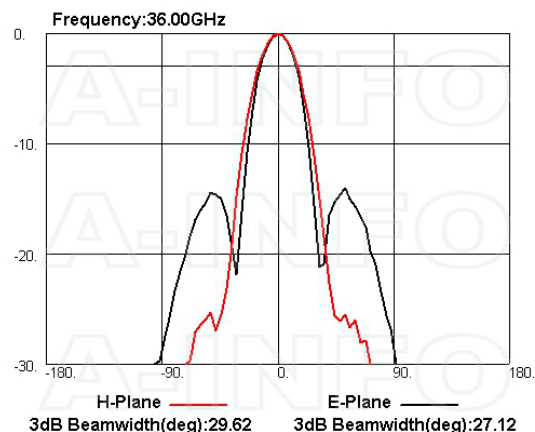
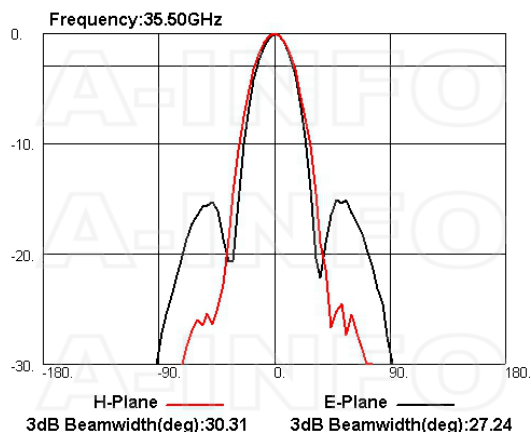


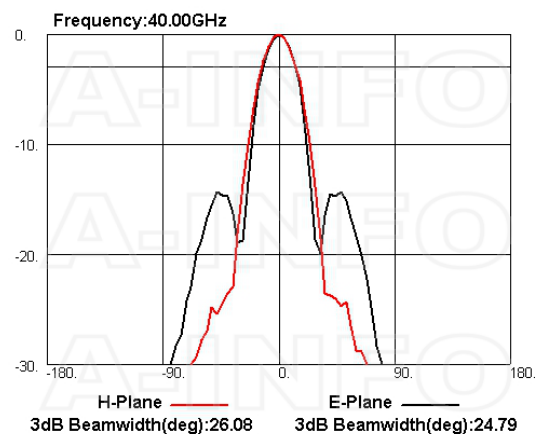
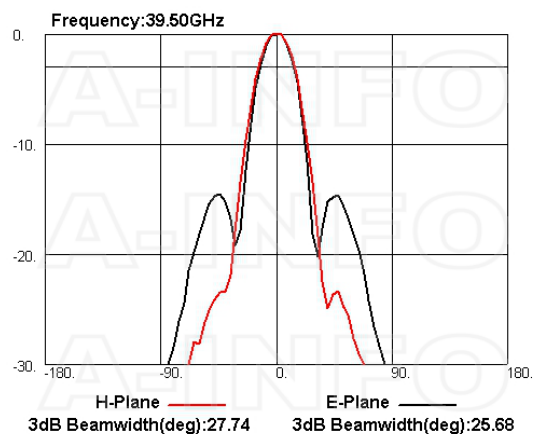
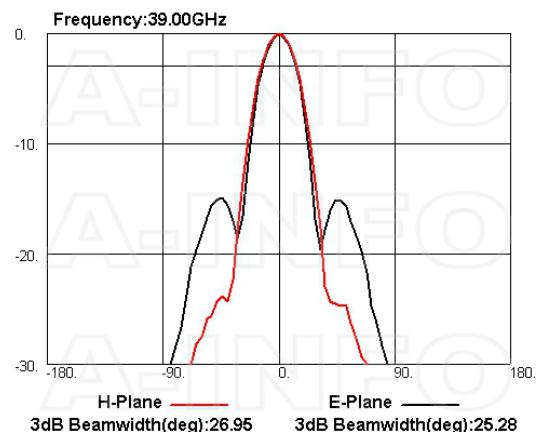
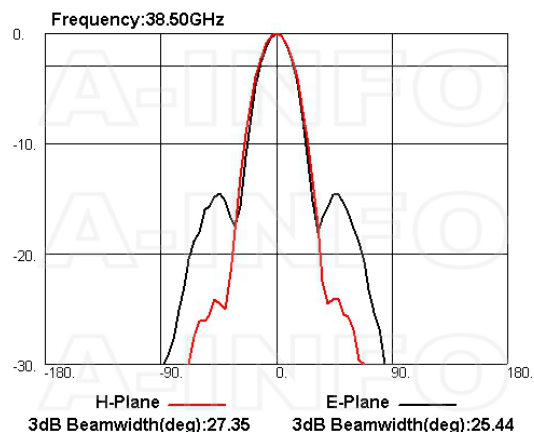
### Pattern











### Related Products



LB-28-10-C-MB Round Type Mounting Bracket



LB-28-10-C-MBL L Type Mounting Bracket



LB-28-10-C-MA Stinger Type Mounting Bracket



Tripod\_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod  
Metalfree



M3x12 Hex\_Pack WR28 Flange  
Assembly Pack



2.92M-2.92M-A050-500 Flexible  
Cable Assembly 500mm DC-  
40GHz 2.92mm Male to 2.92mm  
Male



2.92M-2.92M-A050-1000 Flexible  
Cable Assembly 1000mm DC-  
40GHz 2.92mm Male to 2.92mm  
Male



2.92M-2.92M-A050-1500 Flexible  
Cable Assembly 1500mm DC-  
40GHz 2.92mm Male to 2.92mm  
Male



2.92M-2.92M-A050-2000 Flexible  
Cable Assembly 2000mm DC-  
40GHz 2.92mm Male to 2.92mm  
Male



2.92M-2.92M-A050-3000 Flexible  
Cable Assembly 3000mm DC-  
40GHz 2.92mm Male to 2.92mm  
Male



2.92M-2.92M-A050-5000 Flexible  
Cable Assembly 5000mm DC-  
40GHz 2.92mm Male to 2.92mm  
Male

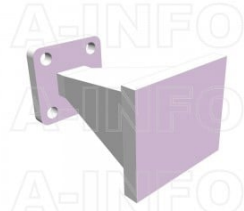


2.92M-2.92M-A050-10000  
Flexible Cable Assembly  
10000mm DC- 40GHz 2.92mm  
Male to 2.92mm Male

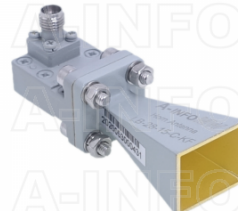
### Similar Products



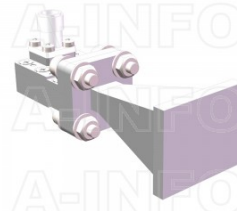
LB-28-15-A Standard Gain Horn  
Antenna 26.5-40GHz 15dB Gain  
Rectangular Waveguide Interface



LB-28-15-ASPO Standard Gain  
Horn Antenna 26.5-40GHz 15dB  
Gain Rectangular Waveguide  
Interface



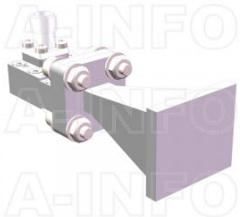
LB-28-15-C-KF Standard Gain  
Horn Antenna 26.5-40GHz 15dB  
Gain 2.92mm Female



LB-28-15-C-KFSPO Standard Gain  
Horn Antenna 26.5-40GHz 15dB  
Gain 2.92mm Female



LB-28-15-C-2.4F Standard Gain  
Horn Antenna 26.5-40GHz 15dB  
Gain 2.4mm Female



LB-28-15-C-2.4FSPO Standard  
Gain Horn Antenna 26.5-40GHz  
15dB Gain 2.4mm Female

About this Datasheet

|                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                |                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>● Product Information</li></ul> <p>Product Link:<br/><a href="https://www.ainfoinc.com/lb-28-15-c-ekf-standard-gain-horn-antenna-26-5-40-ghz-15db-gain-endlaunch-2-92mm-female">https://www.ainfoinc.com/lb-28-15-c-ekf-standard-gain-horn-antenna-26-5-40-ghz-15db-gain-endlaunch-2-92mm-female</a><br/>Data subject to change without notice.<br/>© A-INFO INC. 2023. All Rights Reserved</p> | <ul style="list-style-type: none"><li>● Contact Us</li></ul> <p>Address:dd<br/>60 Tesla, Irvine, CA 92618,<br/>USA</p> <p>Website:<br/><a href="http://www.ainfoinc.com">www.ainfoinc.com</a></p> <p>Email:<br/><a href="mailto:sales@ainfoinc.com">sales@ainfoinc.com</a></p> | <ul style="list-style-type: none"><li>● Phone &amp; Fax</li></ul> <p>Phone:<br/>+1-949-639-9688<br/>+1-949-639-9608</p> <p>Fax:<br/>+1-949-639-9670</p> |
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