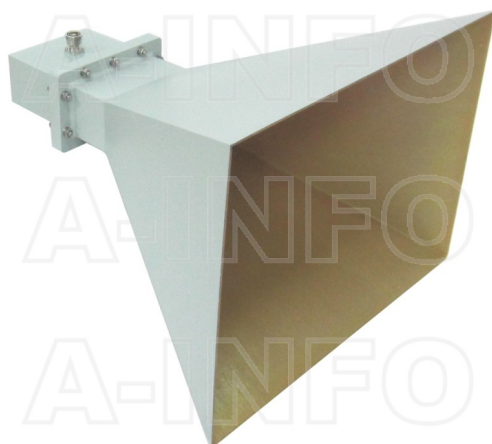




LB-650-15-C-7/16F Standard Gain Horn Antenna 1.12-1.7GHz 15dB Gain 7/16(DIN) Female

Standard Gain Horn Antenna Operating From 1.12GHz to 1.7GHz With a Nominal 15dB Gain With 7/16(DIN) Female Connector

## Product Information

|     |                   |
|-----|-------------------|
| SKU | LB-650-15-C-7/16F |
|-----|-------------------|

## Description

Standard Gain Horn Antenna LB-650-15-C-7/16F, operating from 1.12 to 1.7GHz with a nominal 15dB gain and low VSWR 1.25:1 with 7/16(DIN) Female connector output. The model LB-650-15-C-7/16F has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 500W 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

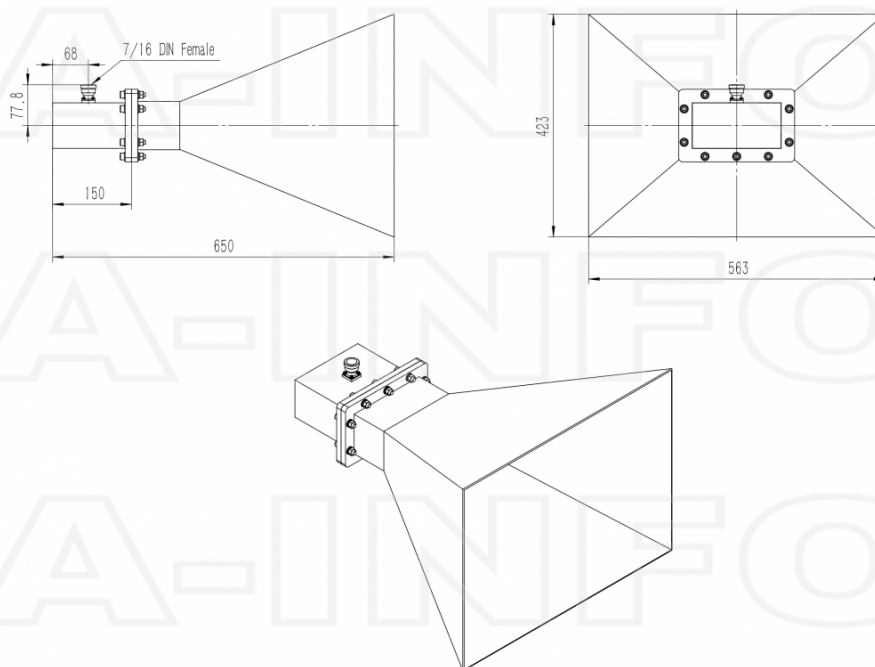
| Electrical Specification           |             | Interface                |                                         |
|------------------------------------|-------------|--------------------------|-----------------------------------------|
| Frequency, Min (GHz)               | 1.12        | Output Type              | Coaxial                                 |
| Frequency, Max (GHz)               | 1.7         | Connector                | 7/16 DIN                                |
| Waveguide Type                     | Rectangular | Connector Gender         | Female                                  |
| Waveguide Size EIA WR              | WR650       | Mechanical Specification |                                         |
| Gain, Typ (dBi)                    | 15          | Figure                   | C Type                                  |
| Polarization                       | Linear      | Body Material            | Al                                      |
| 3dB Beamwidth, E-Plane, Typ (Deg.) | 27          | Finish                   | Chemical Conversion Coating, Gray Paint |
| 3dB Beamwidth, H-Plane, Typ (Deg.) | 27          | Size, W (mm)             | 564                                     |
| Cross Pol. Isolation, Typ (dB)     | 30          | Size, H (mm)             | 424                                     |
| VSWR, Typ                          | 1.25:1      | Size, L (mm)             | 650                                     |
| Impedance, (Ohm)                   | 50          | Weight, (kg)             | 6.95                                    |
| Power Handling, CW, (W)            | 500         |                          |                                         |
| Power Handling, Peak, (W)          | 3000        |                          |                                         |

## Additional Information

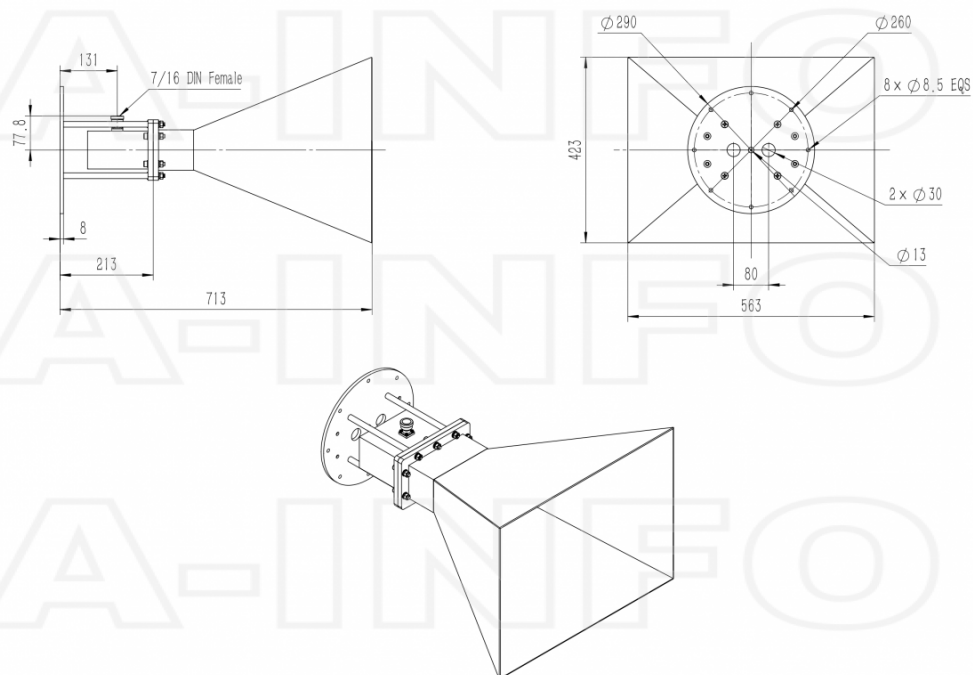
|             |                                         |              |                                                                                                                                 |
|-------------|-----------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| 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

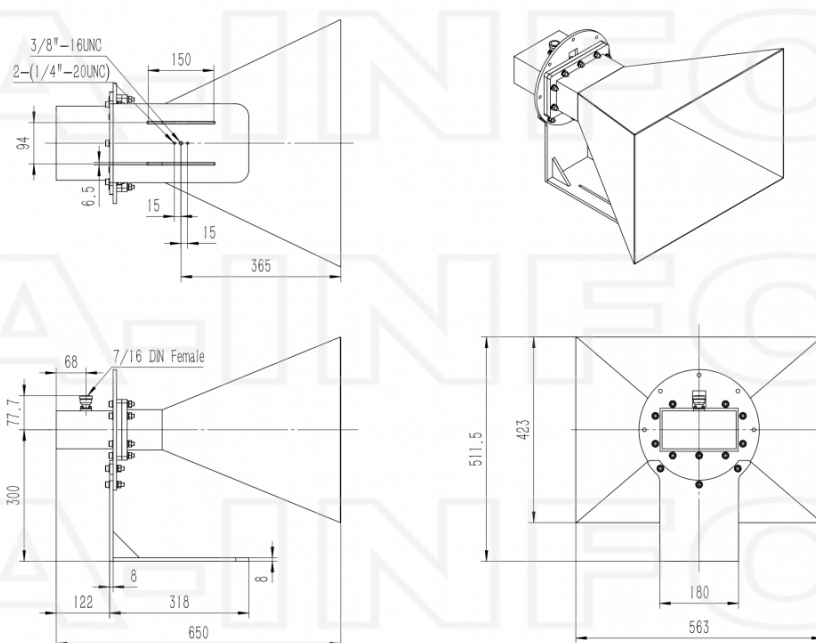
7/16(DIN) Female Output (P/N: LB-650-15-C-7/16F)



### 7/16(DIN) Female Output with Round Mounting Bracket (Option, P/N: LB-650-10-C-MB)

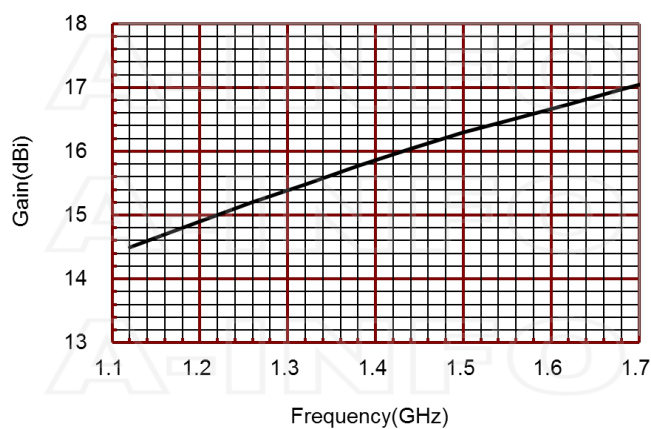


### 7/16(DIN) Female Output with L Type Mounting Bracket (Option, P/N: LB-650-15-C-L)

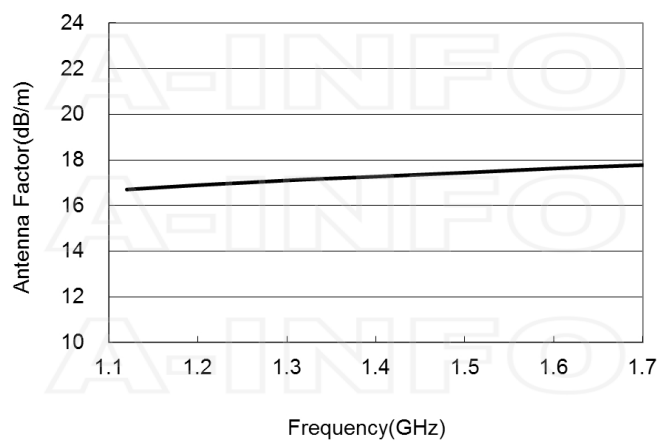


## Typical Test Results

### Gain



### Antenna Factor

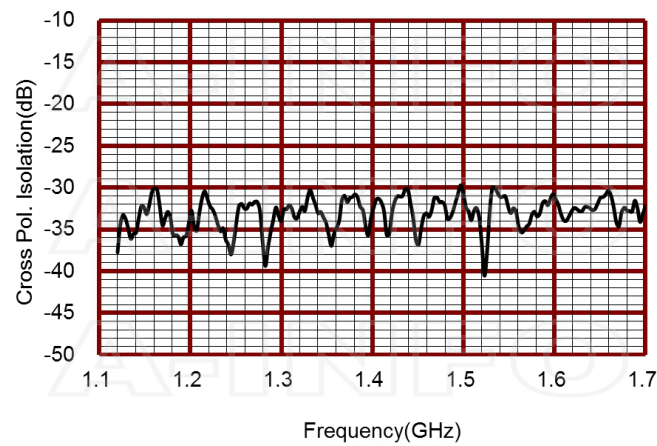


### Antenna Factor (Table)

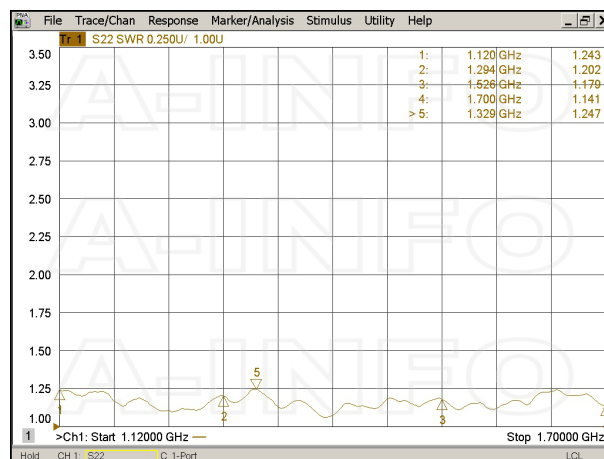
| Frequency(GHz) | Gain(dBi) | Antenna Factor(dB/m) |
|----------------|-----------|----------------------|
| 1.12           | 14.49     | 16.70                |
| 1.20           | 14.90     | 16.89                |
| 1.26           | 15.20     | 17.02                |
| 1.32           | 15.48     | 17.14                |
| 1.38           | 15.77     | 17.24                |
| 1.44           | 16.04     | 17.34                |
| 1.50           | 16.29     | 17.44                |
| 1.56           | 16.52     | 17.55                |
| 1.62           | 16.74     | 17.66                |
| 1.68           | 16.97     | 17.75                |
| 1.74           | 17.19     | 17.83                |



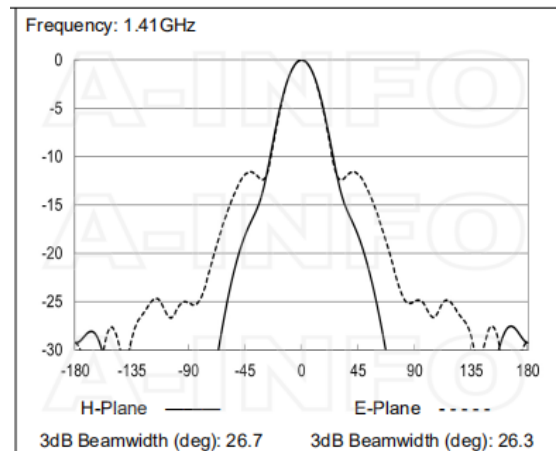
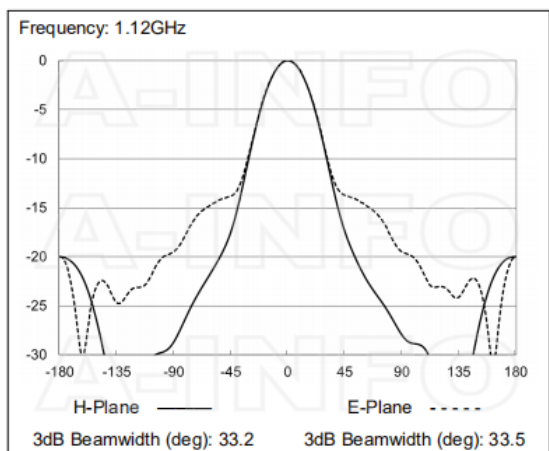
## Cross Polarization Isolation

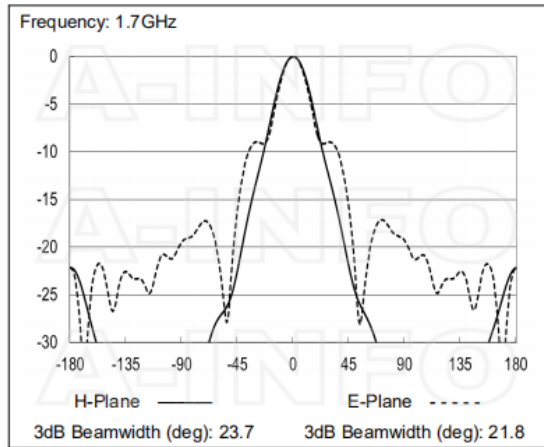


## VSWR



## Pattern





## Related Products



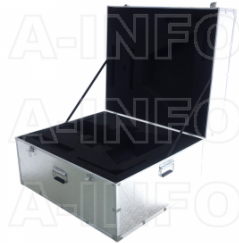
LB-650-10-C-MB Round Type Mounting Bracket



LB-650-15-C-L L type mounting bracket



Tripod\_50Kg Al Alloy Tripod

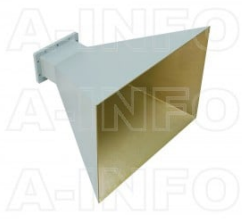


Carrying Case\_LB-650-15-C Al Alloy Carrying Case



M8x40 Hex\_Pack WR510-WR650 Flange Assembly Pack

### Similar Products



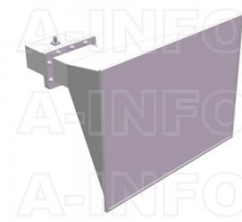
LB-650-15-A Standard Gain Horn Antenna 1.12-1.7GHz 15dB Gain Rectangular Waveguide Interface



LB-650-15-ASPO Standard Gain Horn Antenna 1.12-1.7GHz 15dB Gain Rectangular Waveguide Interface



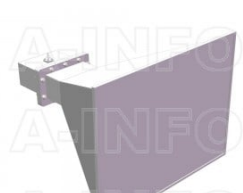
LB-650-15-C-NF Standard Gain Horn Antenna 1.12-1.7GHz 15dB Gain N Type Female



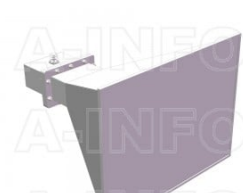
LB-650-15-C-NFSPO Standard Gain Horn Antenna 1.12-1.7GHz 15dB Gain N Type Female



LB-650-15-C-SF Standard Gain Horn Antenna 1.12-1.7GHz 15dB Gain SMA Female



LB-650-15-C-SFSPO Standard Gain Horn Antenna 1.12-1.7GHz 15dB Gain SMA Female



LB-650-15-C-7/16FSPO Standard Gain Horn Antenna 1.12-1.7GHz 15dB Gain 7/16(DIN) Female

### About this Datasheet

#### ● Product Information

Product Link:

<https://www.ainfoinc.com/lb-650-15-c-7-16f-standard-gain-horn-antenna-1-12-1-7-ghz-15db-gain-7-16-din-female>

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