



LB-137-20-C-ENF Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain Endlaunch N Type Female

Standard Gain Horn Antenna Operating From 5.85GHz to 8.2GHz With a Nominal 20dB Gain With Endlaunch N Type Female Connector

## Product Information

|     |                 |
|-----|-----------------|
| SKU | LB-137-20-C-ENF |
|-----|-----------------|

## Description

Standard Gain Horn Antenna LB-137-20-C-ENF, operating from 5.85 to 8.2GHz with a nominal 20dB gain and low VSWR 1.25:1 with Endlaunch N Type Female connector output. The model LB-137-20-C-ENF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 150W 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

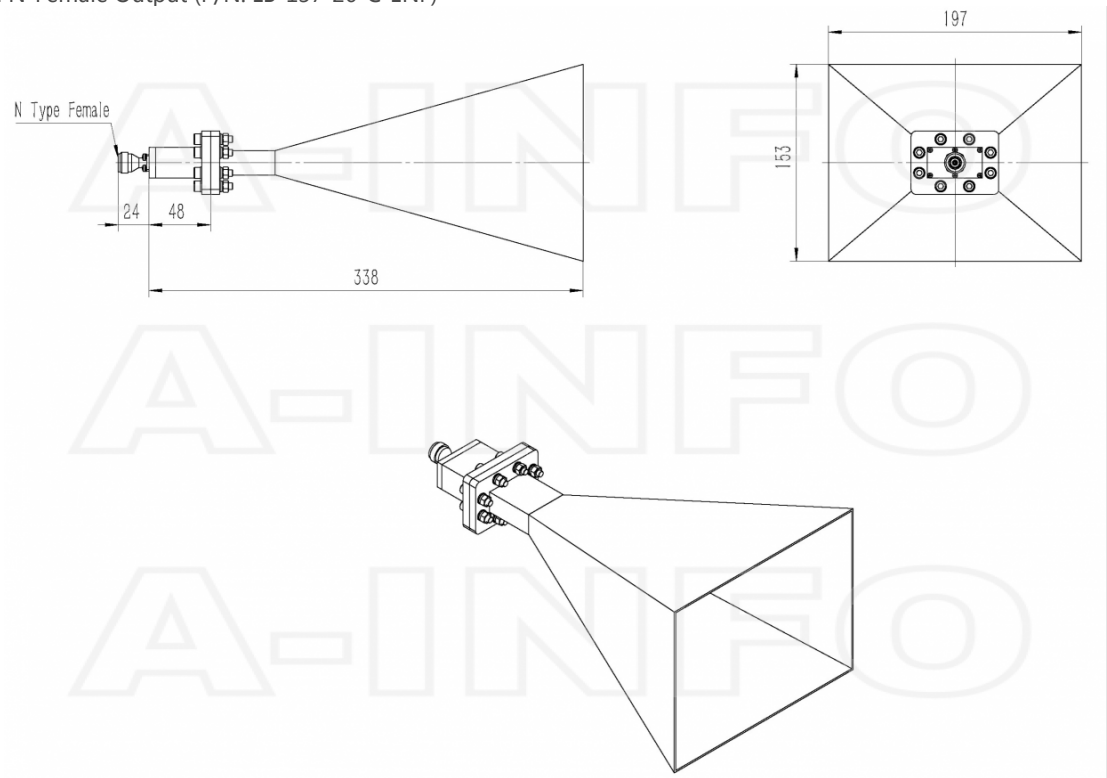
| Electrical Specification           |             | Interface                |                                         |
|------------------------------------|-------------|--------------------------|-----------------------------------------|
| Frequency, Min (GHz)               | 5.85        | Output Type              | Coaxial                                 |
| Frequency, Max (GHz)               | 8.2         | Connector                | N Type                                  |
| Waveguide Type                     | Rectangular | Connector Gender         | Female                                  |
| Waveguide Size EIA WR              | WR137       | Mechanical Specification |                                         |
| Gain, Typ (dBi)                    | 20          | Figure                   | C Type                                  |
| Polarization                       | Linear      | Body Material            | Al                                      |
| 3dB Beamwidth, E-Plane, Typ (Deg.) | 15          | Finish                   | Chemical Conversion Coating, Gray Paint |
| 3dB Beamwidth, H-Plane, Typ (Deg.) | 17          | Size, W (mm)             | 197                                     |
| Cross Pol. Isolation, Typ (dB)     | 45          | Size, H (mm)             | 153                                     |
| VSWR, Typ                          | 1.25:1      | Size, L (mm)             | 338                                     |
| Impedance, (Ohm)                   | 50          | Weight, (kg)             | 0.7                                     |
| Power Handling, CW, (W)            | 150         |                          |                                         |
| 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 |
|-------------|-----------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|

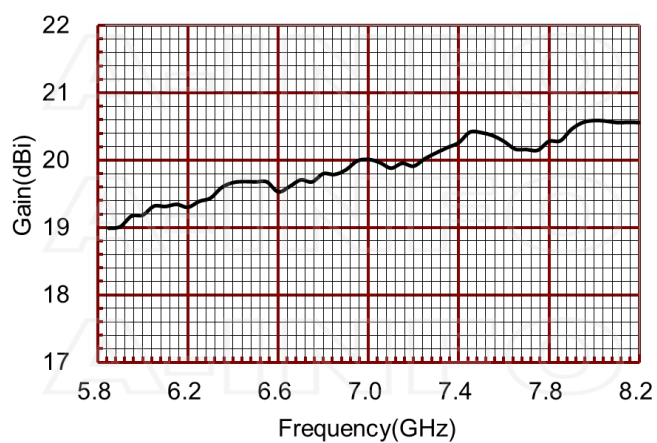
Outline Drawing

Endlaunch N-Female Output (P/N: LB-137-20-C-ENF)

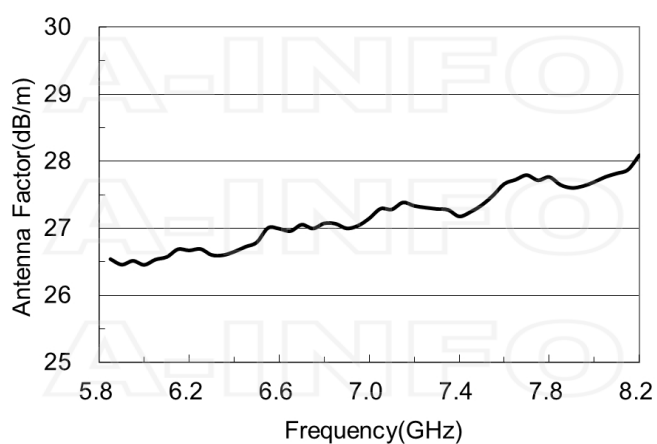


## Typical Test Results

### Gain



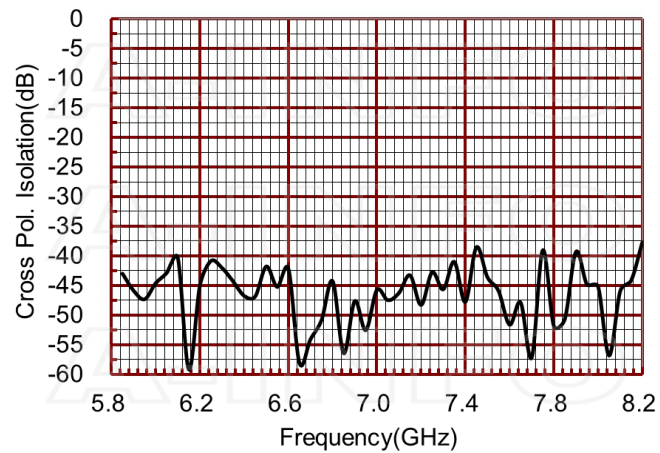
### Antenna Factor



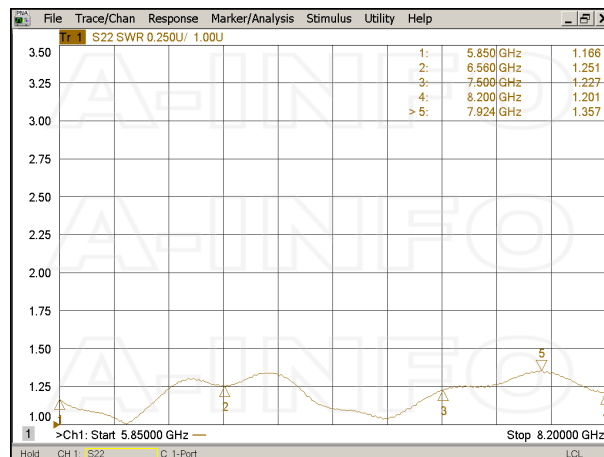
### Antenna Factor (Table)

| Frequency (GHz) | Gain (dBi) | Antenna Factor (dB/m) | Frequency (GHz) | Gain (dBi) | Antenna Factor (dB/m) |
|-----------------|------------|-----------------------|-----------------|------------|-----------------------|
| 5.85            | 19.01      | 26.54                 | 7.10            | 19.96      | 27.28                 |
| 5.90            | 19.17      | 26.46                 | 7.20            | 20.03      | 27.34                 |
| 6.00            | 19.32      | 26.46                 | 7.30            | 20.19      | 27.29                 |
| 6.10            | 19.35      | 26.57                 | 7.40            | 20.42      | 27.18                 |
| 6.20            | 19.39      | 26.67                 | 7.50            | 20.37      | 27.35                 |
| 6.30            | 19.60      | 26.60                 | 7.60            | 20.37      | 27.66                 |
| 6.40            | 19.69      | 26.65                 | 7.70            | 20.15      | 20.80                 |
| 6.50            | 19.68      | 26.79                 | 7.80            | 20.29      | 27.77                 |
| 6.60            | 19.61      | 27.00                 | 7.90            | 20.56      | 27.61                 |
| 6.70            | 19.68      | 27.06                 | 8.00            | 20.58      | 27.69                 |
| 6.80            | 19.79      | 27.08                 | 8.10            | 20.56      | 27.82                 |
| 6.90            | 19.99      | 27.00                 | 8.20            | 20.40      | 28.09                 |
| 7.00            | 19.97      | 27.15                 |                 |            |                       |

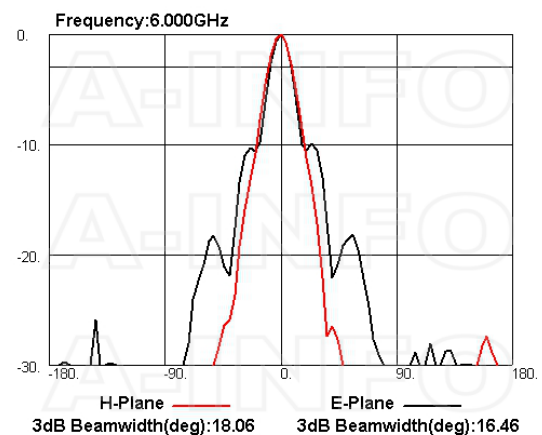
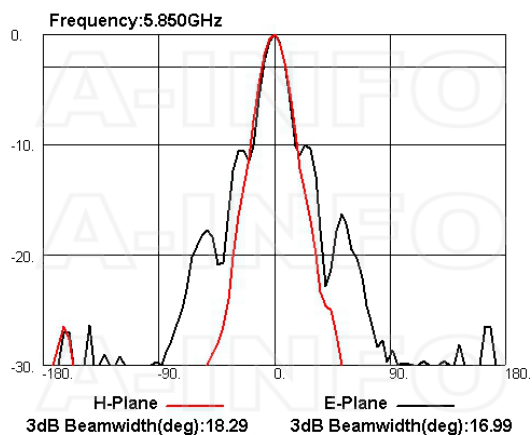
### Cross Polarization Isolation



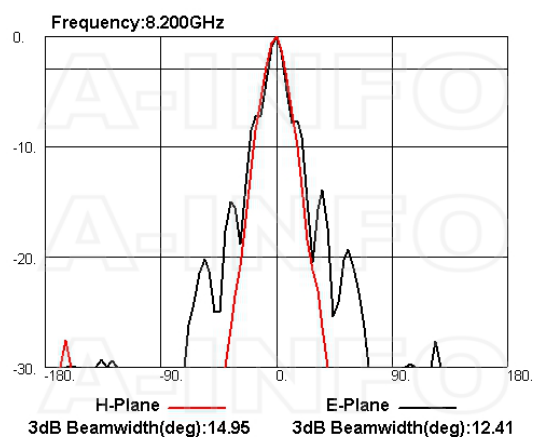
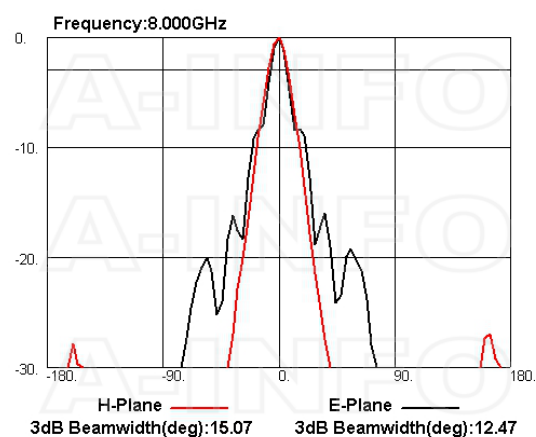
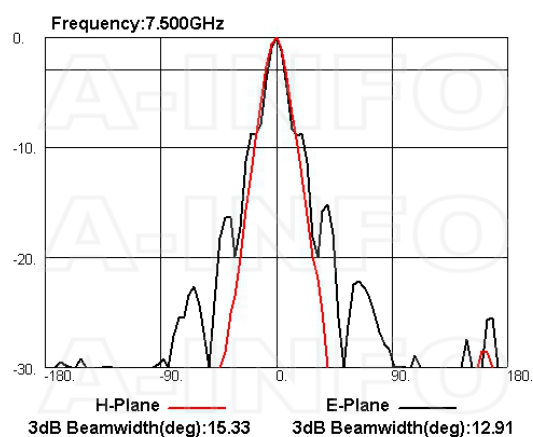
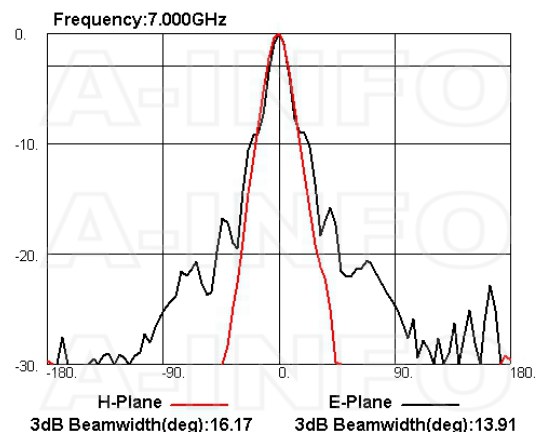
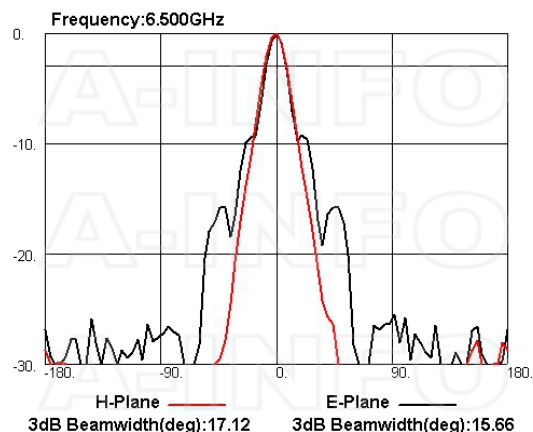
### VSWR



### Pattern







### Related Products



LB-137-10-C-MB Round Type Mounting Bracket



LB-137-10-C-MA Stinger Type Mounting Bracket



LB-137-10-C-MBL L type mounting bracket



Carrying Case\_LB-137-20-C AI Alloy Carrying Case



NM-NM-A050-1000 Flexible Cable Assembly 1000mm DC-18GHz N Male to N Male



NM-NM-A050-1500 Flexible Cable Assembly 1500mm DC-18GHz N Male to N Male



NM-NM-A050-2000 Flexible Cable Assembly 2000mm DC-18GHz N Male to N Male



NM-NM-A050-3000 Flexible Cable Assembly 3000mm DC-18GHz N Male to N Male



NM-NM-A050-5000 Flexible Cable Assembly 5000mm DC-18GHz N Male to N Male



NM-NM-A050-10000 Flexible Cable Assembly 10000mm DC-18GHz N Male to N Male



NM-NM-A050-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male



NM-NM-A100-1000 Flexible Cable Assembly 1000mm DC-18GHz N Male to N Male



NM-NM-A100-1500 Flexible Cable Assembly 1500mm DC-18GHz N Male to N Male



NM-NM-A100-2000 Flexible Cable Assembly 2000mm DC-18GHz N Male to N Male



NM-NM-A100-3000 Flexible Cable Assembly 3000mm DC-18GHz N Male to N Male



NM-NM-A100-5000 Flexible Cable Assembly 5000mm DC-18GHz N Male to N Male



NM-NM-A100-10000 Flexible Cable Assembly 10000mm DC-18GHz N Male to N Male

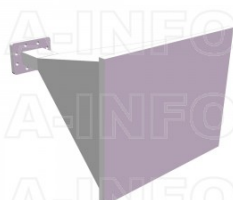


NM-NM-A100-20000 Flexible Cable Assembly 20000mm DC-18GHz N Male to N Male

### Similar Products



LB-137-20-A Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain Rectangular Waveguide Interface



LB-137-20-ASPO Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain Rectangular Waveguide Interface



LB-137-20-C-NF Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain N Type Female



LB-137-20-C-NFSPO Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain N Type Female



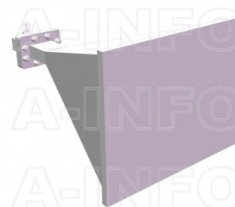
LB-137-20-C-SF Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain SMA Female



LB-137-20-C-SFSPO Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain SMA Female



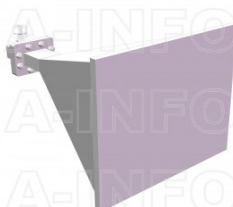
LB-137-20-C-TF Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain TNC Female



LB-137-20-C-TFSPO Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain TNC Female



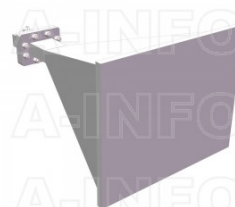
LB-137-20-C-7 Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain 7mm



LB-137-20-C-7SPO Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain 7mm



LB-137-20-C-3.5F Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain 3.5mm Female



LB-137-20-C-3.5FSPO Standard Gain Horn Antenna 5.85-8.2GHz 20dB Gain 3.5mm Female

About this Datasheet

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| <ul style="list-style-type: none"><li>● Product Information</li></ul> <p>Product Link:<br/><a href="https://www.ainfoinc.com/lb-137-20-c-enf-standard-gain-horn-antenna-5-85-8-2-ghz-20db-gain-endlaunch-n-type-female">https://www.ainfoinc.com/lb-137-20-c-enf-standard-gain-horn-antenna-5-85-8-2-ghz-20db-gain-endlaunch-n-type-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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