

BIA-2 Broadband Rx/Tx Antenna



Features

- Frequency Range of 20 — 3000 MHz
- Separate VHF/UHF Outputs
- Very Lightweight and Portable
- Weather-resistant for Continuous Outdoor Operation
- Military Circular Connector
- Rugged Design
- Fixed Mount (Std) or Magnetic Mount (Opt)

Product Overview

The BIA-2 is a high performance antenna design that has been realized through advanced design and manufacturing technologies. The basic design is standard broadband cone, with a carefully engineered feed-point to provide very flat response over three octaves. In addition, the manufacturing and assembly of these antennas has been simplified greatly so that product lead times can be minimized. This feature is particularly important to the tactical community who need great solutions fast for immediate deployment.

The whip antenna may be optionally removed for operation above 500 MHz

Specifications

Rx and/or Tx

Frequency: 20-3000 MHz

Impedance: 50 ohm

Gain: > -15 dBi 100-250 MHz
> -5 dBi 250-450 MHz
0 dBi 450-3000 MHz
(-30dBi nominal @ 20MHz)

Tx Power: 50 W, max

Size: 7.5" Dia. x 9.5" H
7.5" Dia. x 24.5" H (with antenna)

Weight: 4 lbs.

Operating Temperature Range: -40°C to +75°C

Storage Temperature Range: -55°C to +85°C

Environmental (Designed to Meet):

Humidity: 5% to 95% non-condensing

Altitude: < 15,000 ft. MSL

Shock (11mS, 1/2 sine): 2.5g op, 10g non-op

Vibration (5-500 Hz random): 2 g RMS

EMI/RFI (MIL-STD-461E): CE102, CE106,

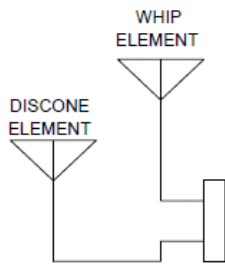
CS101, CS103, CS114, CS115, CS116,

RE102 and RS103

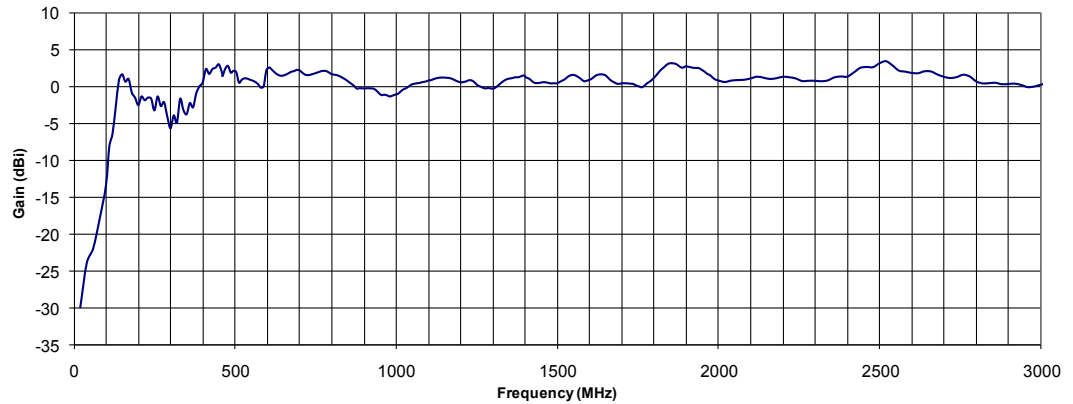
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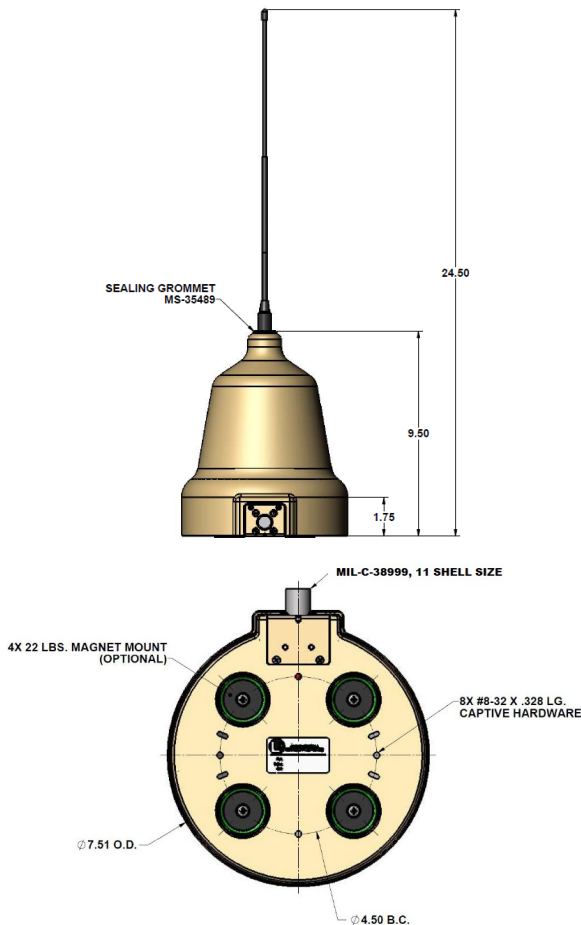
Electrical Interface



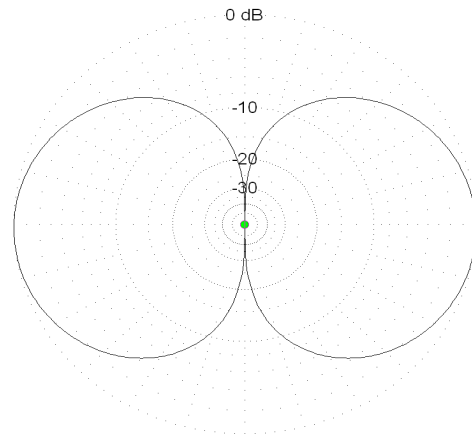
Antenna Gain



Mechanical Data (inches)



Elevation Gain Pattern, 1.5 GHz (3.41 dBi)



Related Products

BIA-3: Internal Diplexer with Single Output

BIA-4: Internal Diplexer with Single Output and LNA

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The goods and services contained in this datasheet are controlled under the International Traffic in Arms Regulations (ITAR) USML Category XI(b), and may not be exported to a foreign person, either in the U.S. or abroad, without a license or exemption from the U.S. Department of State.

Warranty

All equipment is warranted for a period of one (1) year from date of purchase. The terms and conditions of the warranty are available for review upon request.

Additional warranty coverage is also available at the time of sale. Please ask your sales representative for more information.

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