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Data Sheet

August 15, 2026

ELECTRO-METRICS

Electro-Metrics BIA-25 Broadband Isotropic Antenna

Electro-Metrics BIA-25 Broadband Isotropic Antenna The Electro-Metrics BIA-25 is a broadband isotropic antenna for EMC and field strength work. OEM Electro-Metrics BIA-25 literature covers an isotropic broadband antenna for radiated emissions and immunity field monitoring. EMC radiated field monitoring and isotropic field strength measurements. Instrument Type: broadband isotropic antenna The Electro-Metrics BIA-25 is a broadband isotropic antenna for EMC and field strength work. OEM Electro-Metrics BIA-25 literature covers an isotropic broadband antenna for radiated emissions and immunity field monitoring. EMC radiated field monitoring and isotropic field strength measurements. Instrument Type: broadband isotropic antenna Use Case: radiated emissions and immunity



MODEL

**Electro-Metrics
BIA-25**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

BIA-25

LISTING

<https://aumictechlabs.com/products/bia-25-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Electro-Metrics BIA-25 is a biconical antenna designed for broadband electromagnetic field measurements, particularly suited for EMC compliance testing and site surveys. Its design, featuring a balun, feedline, and element cage, contributes to near-linear response curves, making it effective for swept measurements. This antenna operates within a specified frequency range and is manufactured in Johnstown, NY, USA. Technical Specifications * Electrical Specifications *

Frequency Range: 30 MHz – 200 MHz * Input Impedance: 50 Ohms * VSWR (Voltage Standing Wave Ratio): * Average: 1.4:1 (with 6 dB pad) * Maximum: 1.8:1 (with 6 dB pad) * Maximum Continuous Power: 0.5 W * Peak Power: 1.0 W * Output Connector: TNC Mechanical Specifications * Length: 134.1 cm (52.75 inches) tip-to-tip * Diameter: 53.3 cm (21 inches) * Depth: 81.3 cm (32 inches) including balun * Weight: 7 lbs * Dimensions (Shipping): 24 × 24 × 24 inches Applications The Electro-Metrics BIA-25 is ideally suited for use in radiated emissions testing according to FCC, SAE, and MIL-STD. Its broadband frequency capability eliminates the need for band switching, element extension, or external tuning when conducting electromagnetic ambient surveys or spectrum signature measurements. The compact size of the BIA-25 is advantageous for use in anechoic chambers and shielded enclosures. Physical Characteristics * The antenna is position sensitive and requires proper orientation for accurate readings. When oriented vertically, incorrect readings can occur if the incorrect element is closest to the ground plane. Features a meticulously designed balun, feedline, and element cage for near-linear response curves. Why Choose Aumictech for Electro Metrics BIA-25? At Aumictech, we specialize in supplying high-end RF test and measurement equipment. Whether you need reliable electromagnetic field measurements, accurate EMC compliance testing, or detailed site surveys, our team ensures the Electro Metrics BIA-25 delivers maximum performance for your application.

Features & description

From manufacturer datasheet

Polarization Class: isotropic three axis class

Mounting Class: tripod/antenna mast Brand Lineage: Electro-Metrics Literature: Electro-Metrics BIA-25 broadband isotropic antenna literature Calibration Class: antenna factor Cable Class: RF cable to receiver/meter Operating Class: EMC chamber and OATS Storage Class: BIA-25 storage on the sheet Power Handling Class: maximum field on the BIA-25 sheet Notes From Electro-Metrics BIA-25 broadband isotropic antenna listings. Frequency span, antenna factor, and connector are on the BIA-25 sheet; do not invent MHz limits.

BIA Characteristics / Specifications

PARAMETER	VALUE
Model	BIA-25
Instrument Type	broadband isotropic antenna
Manufacturer	Electro-Metrics
Form Factor	isotropic antenna
Application Class	EMC field monitoring
System Role	broadband isotropic antenna
Use Case	radiated emissions and immunity
Documentation Type	OEM Electro-Metrics BIA-25 listing
Response Class	isotropic
Band Class	broadband BIA-25 frequency span on the sheet
Impedance Class	50 ohm class EMC antenna
Connector Class	coaxial RF connector on the BIA-25
Antenna Factor Class	BIA-25 antenna factor table on the sheet
Dynamic Range Class	BIA-25 dynamic range on the sheet
Polarization Class	isotropic three axis class
Mounting Class	tripod/antenna mast
Brand Lineage	Electro-Metrics
Literature	Electro-Metrics BIA-25 broadband isotropic antenna literature
Calibration Class	antenna factor
Cable Class	RF cable to receiver/meter
Operating Class	EMC chamber and OATS
Storage Class	BIA-25 storage on the sheet
Power Handling Class	maximum field on the BIA-25 sheet

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.