

HBA-2030 High Power Biconical Antenna

Product Overview

The TDK RF Solutions HBA-2030 High Power Biconical Antenna is a new generation biconical dipole that covers the operating frequency range of 20 MHz to 300 MHz. The HBA-2030 offers an unprecedented combination of high power handling, balance, and pattern control, which makes it an excellent choice for immunity measurements.

Precision Design Designed in-house by our product design engineers, the HBA-2030's patent-pending balun design provides *greatly* improved balance at low frequencies. The unique cage design provides improved antenna factor at the low end as well as mode-free operation to 300 MHz and higher. The HBA-2030 is manufactured using low-tolerance, precision fabrication methods to minimize intrinsic uncertainties. This mechanically-precise, weld-free design yields predictable performance and delivers accurate, consistent measurements.

Immunity and Emissions Measurements For radiated immunity testing, the HBA-2030 is a highly efficient radiator with a low VSWR (<2.5:1 average). The HBA-2030's high power handling capability (3500W continuous) accommodates the majority of immunity test applications.



The TDK RF Solutions HBA-2030 High Power Biconical Antenna features a patent-pending design that provides optimum performance over the frequency range of 20 MHz to 300 MHz.

Features

- Improved balun provides superior patterns and balance
- Improved cage design provides enhanced low frequency performance and mode-free operation to 300 MHz and higher
- High power handling (3500W)
- Individually calibrated with signed certificate of calibration.

Applications

- Designed primarily for immunity testing, but the balance and pattern of the HBA-2030 easily meet the requirements for emissions measurements

HBA-2030 High Power Biconical Antenna

Electrical Characteristics

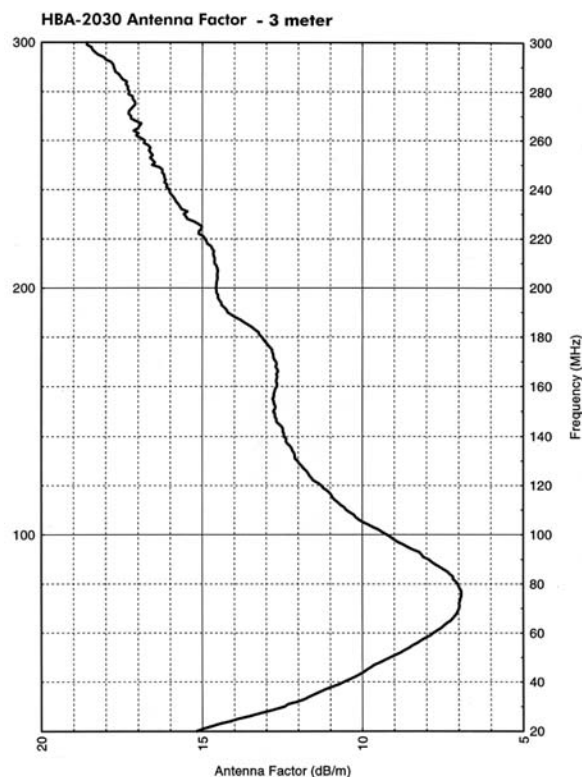
| | |
|----------------------|-------------------|
| Frequency Range: | 20 MHz to 300 MHz |
| VSWR: | 2.5:1 average |
| Polarization: | Linear |
| Power Handling: | 3500 W continuous |
| Feedpoint Impedance: | 50 ohms nominal |

Mechanical Specifications

| | |
|---------------|--|
| Size: | 138 cm x 56 cm x 56 cm (56" W x 22" D x 22" H) |
| Weight: | 4 kg (9lbs) |
| Construction: | Aluminum |
| RF Connector: | SC |

Ordering Information

| | |
|---------------|------------------------------|
| Product: | High Power Biconical Antenna |
| Model Number: | HBA-2030 |
| Warranty: | 1 year Limited |



To place an order or to learn more about the TDK RF Solutions products that best meet your needs, contact your TDK sales representative:

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