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# 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 patentpending 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**

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| 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**

| 138 cm x 56 cm x 56<br>cm (56" W x 22" D x<br>22" H) |
|--|
| 4 kg (9lbs)  |
| Aluminum   |
| SC   |
|  |

# **Ordering Information**

| Product:      | High Power Biconical<br>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:

### **TDK RF Solutions Inc.**

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