

# HBA-2030 High Power Biconical Antenna

## Product Overview

The TDK 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 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.

## 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)



**The TDK 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.**

## Applications

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

## Options

- Antenna Tripod TRI-150R: The TDK TRI-150R antenna tripod is a manually adjusted tripod (100 cm to 150 cm) designed for quick and easy mounting in EMC test environments.
- Polarizing mount for TRI-150R tripod

# HBA-2030 High Power Biconical Antenna

## Electrical Characteristics

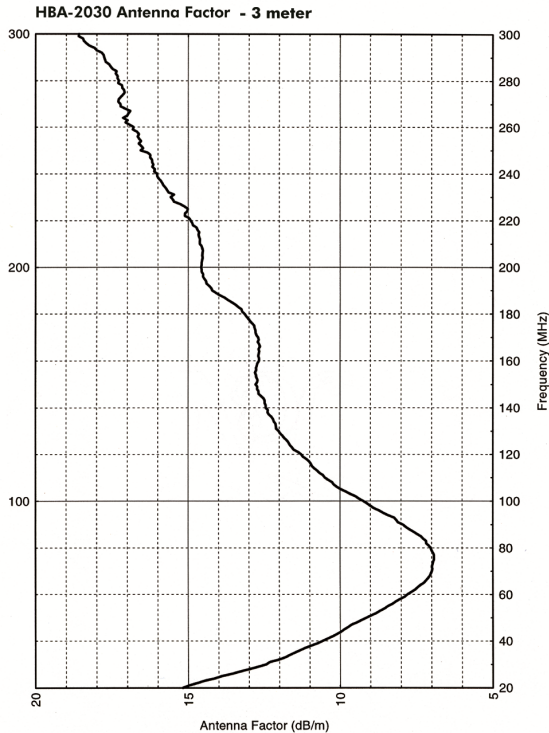
Frequency Range:	20 MHz to 300 MHz
VSWR:	2.5:1 avg for 60MHz-300MHz
Polarization:	Linear
Power Handling:	3500 W continuous
Feedpoint Impedance:	50 ohms nominal

## Mechanical Specifications

Size:	138 cm x 56 cm x 56 cm (56" W x 22" D x 22" H)
Weight:	4 kg (9 lbs)
Construction:	Aluminum
RF Connector:	7/16 female

## 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 products that best meet your needs, contact your TDK sales representative:**

**TDK RF Solutions Inc.**  
 1101 Cypress Creek Rd.  
 Cedar Park, Texas 78613 USA  
 Phone: 1-512-258-9478  
 E-mail: trs.sales@tdk.com  
 World Wide Web: www.tdkrfsolutions.tdk.com

TOTAL RF EXPERTISE™



[www.tdkrfsolutions.tdk.com](http://www.tdkrfsolutions.tdk.com)

To learn more about TDK's wide range of innovative test products, solutions and services visit [www.tdkrfsolutions.tdk.com](http://www.tdkrfsolutions.tdk.com)

Copyright © TDK RF Solutions Inc. All rights reserved. Specifications subject to change without notice.

Rev. 2022-05-09