

# PBA-2030 Precision Biconical Antenna

## Product Overview

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

**Immunity and Emissions Measurements** For radiated immunity testing, the PBA-2030 is a highly efficient radiator with a low VSWR (<2.5:1 average). The PBA-2030's moderate power handling capability (100W CW) accommodates the majority of IEC 1000-4-3 immunity test applications. For emissions testing, the PBA-2030's improved balun provides superior patterns and balance, while the internal choke effectively provides immunity to externally induced imbalance.

**Precision Design** Designed in-house by our product design engineers, the PBA-2030 is manufactured using tight tolerance, precision fabrication methods to minimize intrinsic uncertainties. This mechanically-precise, weld-free design yields predictable performance and delivers accurate, consistent measurements.



**The TDK PBA-2030 Precision 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
- Effective internal choke provides immunity to externally induced imbalance
- Moderate power handling capability accommodates a wide range of immunity testing applications
- Individually calibrated according to ANSI C63.5, with signed certificate of calibration

## Applications

- Emissions testing
- Immunity testing

## 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.

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## Electrical Characteristics

Frequency Range:	20 MHz to 300 MHz
VSWR:	2.5:1 average
Polarization:	Linear
Power Handling:	100 W maximum
Feedpoint Impedance:	50 ohms nominal

## Mechanical Specifications

Size:	137 cm x 53 cm x 72 cm (length x width x height)
Weight:	3 kg
Construction:	Aluminum with gold chromate finish
RF Connector:	N type female

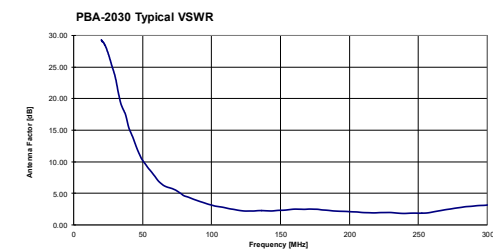
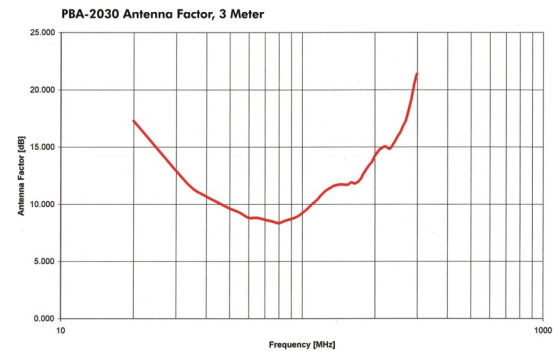
## Ordering Information

Product:	Precision Biconical Antenna
Model Number:	PBA-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:**

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## Antenna Data



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