

PBA-2030 Precision Biconical Antenna

Product Overview

TDK RF Solutions' 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 (300W 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.



TDK RF Solutions' 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

- Immunity and Emissions testing

PBA-2030 Precision Biconical Antenna

PBA-2030 Antenna Factor, 3 Meter



PBA-2030 Typical VSWR



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:	138 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 or SC

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 RF Solutions products that best meet your needs, contact your TDK sales representative:

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