

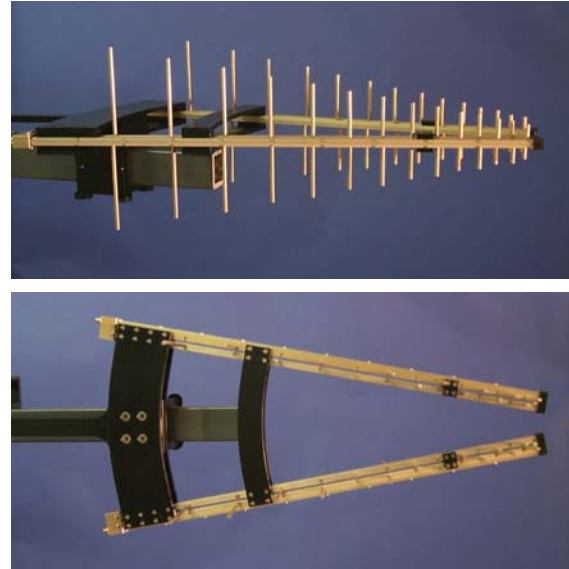
# HPA-8003 H-Plane Array

## Product Overview

TDK RF Solutions' HPA-8003 H-Plane Array of Log Periodic Dipole Antennas is a new generation compact antenna used for transmitting and receiving broadband radio signals. It is especially suited for multi-band and broadband communication testing.

**Performance** The HPA-8003 provides optimal performance over the wide operating frequency range of 800 MHz to 3 GHz. The frequency range of the HPA-8003 is intended to cover the principal terrestrial telecommunications bands.

**Leading-Edge Design** The HPA-8003's precision design features a reduced boom cross section which results in excellent cross polarization rejection. The quasi-frequency independent H-plane array equalizes E and H-plane beamwidths, reduces cross polarization, and provides better phase center localization. These features, combined with moderate power handling capability, make the HPA-8003 an excellent choice for both communications testing as well as the most stringent metrology applications.



**TDK RF Solutions' HPA-8003 H-Plane Array of Log Periodic Dipole Antennas features an improved design offering superior performance over the ultra-wide frequency range of 800 MHz to 3 GHz.**

## Features

- Compact broadband design
- Greatly improved pattern symmetry
- Reduced cross polarization
- Moderate power capability (100W)
- Fits common antenna mounts
- Individually calibrated according to ANSI C63.5, with signed certificate of calibration

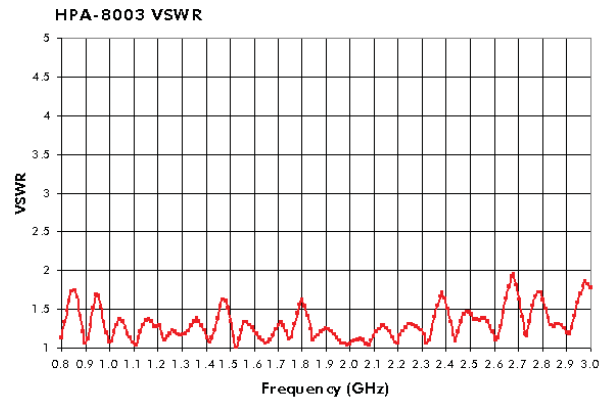
## Applications

- Communications equipment testing
- Land mobile communication bands, GSM, ISM testing
- Site attenuation measurements
- Calibration
- Transmission loss measurements
- Chamber characterization

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## Electrical Characteristics

Frequency Range:	800 MHz to 3 GHz
Gain:	10 dBi
VSWR:	1.5:1 maximum
Polarization:	Linear
Power Handling:	100W CW with hybrid feed; higher power levels (500 W) can be accommodated with available corporate feed
Feedpoint Impedance:	50 ohm nominal



## Mechanical Specifications

Size:	84 cm L x 32 cm W x 23 cm H (33" x 12.5" x 9")
Weight:	2.7 kg (6 lbs.)
Construction:	Aluminum with gold chromate finish
RF Connector:	SMA-type female

## Ordering Information

Product:	H-Plane Array of Log Periodic Dipole Antennas
Model Number:	HPA-8003
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.

1101 Cypress Creek Rd.  
Cedar Park, Texas 78613 USA  
Phone: 1-512-258-9478  
Fax: 1-512-258-0740  
E-mail: [info@tdkrf.com](mailto:info@tdkrf.com)  
World Wide Web: [www.tdkrfsolutions.com](http://www.tdkrfsolutions.com)

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