

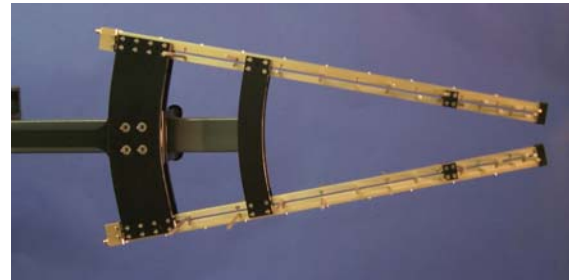
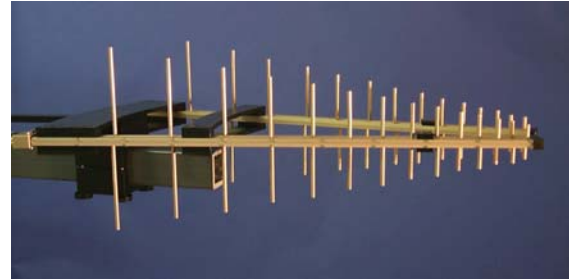
HPA-8003 H-Plane Array

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

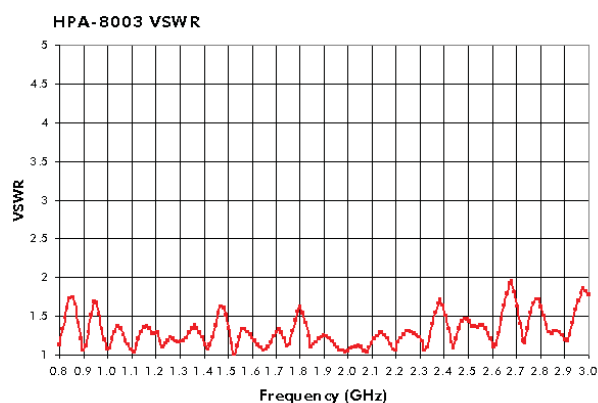
Applications

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

HPA-8003 H-Plane Array

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:

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