HRN-0118 Horn Antenna

Product Overview
The TDK HRN-0118 Horn Antenna is a wide-band, double-ridged horn used to transmit and receive microwave signals over the frequency range of 1 GHz to 18 GHz.

The HRN-0118 generates high electric fields required for radiated immunity and emissions measurements, and features high gain, low VSWR, moderate power handling (500W), and a robust mechanical design.

Features
- Operating frequency of 1 GHz to 18 GHz
- High gain
- Low VSWR
- Robust mechanical design
- Includes typical/average ANSI C63.5 data

Applications
- Emissions testing
- Immunity testing

The TDK HRN-0118 Horn Antenna is designed specifically for radiated emissions and immunity measurements in EMC test environments. The HRN-0118 provides optimal performance over the frequency range of 1 GHz to 18 GHz.

Options
- ISO/IEC 17025 accredited calibration
- 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.
- Antenna Tripod TRI-350R: The TDK TRI-350R antenna tripod is a lightweight, manually adjusted tripod (65 cm to 160 cm) designed for quick and easy mounting and portability in EMC test environments.
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**Electrical Characteristics**

- **Frequency Range:** 1 GHz to 18 GHz
- **VSWR:** <1.5:1 average
- **Polarization:** Linear
- **Power Handling:**
  - Max continuous power: 1.6 GHz: 500W;
  - 6-18 GHz: 300W
- **Max peak power (<10% duty cycle):** 2000W
- **Feedpoint Impedance:** 50 ohms [nominal]

**Mechanical Specifications**

- **Width:** 23.4 cm [9.21 in]
- **Depth:** 29 cm [11.54 in] with mounting bracket
  - 21 cm [8.27 in] without mounting bracket
- **Height:** 14.5 cm [5.71 in]
- **Weight:** 1.9 kg [4.2 lbs] with mounting bracket
- **Construction:** Aluminum with a gold chromate finish
- **RF Connector:** Type N female

**Ordering Information**

- **Product:** Horn Antenna
- **Model Number:** HRN-0118
- **Warranty:** 1 year limited

**Antenna Data**

- **HRN-0118 Antenna Factor, 3m Horizontal**
- **HRN-0118 Gain, 3m Horizontal**

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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