

MODEL NUMBER:

DRHA18G with DRHA18G-PA

- DUAL RIDGED HORN ANTENNA, 1 TO 18 GHZ
- MICROWAVE BROADBAND PREAMPLIFIER



DESCRIPTION

Model DRHA18G fitted with an updated pre-amplifier package and calibrated as a single unit. In this configuration, any possible mismatches between antenna and pre-amplifier are taken into account in the antenna factor (AF) which is provided with this unit. Please note, the DRHA18G is not intended for RSE testing of intentional radiators.

KEY FEATURES

- 1 GHz to 18 GHz Frequency Range
- Designed for MIL-STD 461
- Fitted with Pre-Amplifier for Increased Sensitivity
- Pre-Amplifier and Antenna Calibrated as a Single Unit
- Extremely Low AF Flexible Mounting
- Not intended for RSE Testing of Intentional Radiators

PRODUCT FEATURES

FREQUENCY RANGE

This antenna covers the 1 GHz to 18 GHz range making it ideal as a receive antenna for any emissions testing above 1 GHz.

DESIGNED FOR MIL-STD-461

DRHA18G Dual Ridged Horn Antenna, (without pre-amplifier) is identical to the antenna described in MIL-STD-461 RE102, for emissions testing above 1 GHz.

FITTED AMPLIFIER

The pre-amplifier has a frequency range of 1 GHz to 18 GHz and a typical gain of 28 dB. The gain flatness across the range is 2.5 dB. The pre-amplifier has a maximum noise figure of 4 dB maximum with the typical noise figure being 3 dB. The power output is +17 dB minimum at the 1 dB point. The input and output characteristics of the pre-amplifier are an input and output VSWR of 2: 1 maximum.

CALIBRATED AS SINGLE UNIT

The DRHA18G is calibrated as a single unit, so uncertainty values are reduced.



SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Length	36.1 cm (14.21 in)
Width	24.2 cm (9.53 in)
Height	24.8 cm (9.76 in)
Weight	2.5 kg (5.51 lb)

ELECTRICAL SPECIFICATIONS

Frequency Minimum	1 GHz
Frequency Maximum	18 GHz
VSWR (Average)	N/A (Rx Only)
Impedance (Nominal)	50
Connector (Amplifier Output)	SMA (Female)
Pattern Type	Directional
Polarization	Linear

PRODUCT OPTIONS

- 4-TR Tripod
- 7-TR Tripod

PRODUCT CONFIGURATION

- Antenna and Pre-Amplifier
- Mounting Bracket for 1/4 in x 20 Threads
- Rear "Stinger" Mount
- AC/DC Power Supply for the Pre-Amplifier Module
- Individually Calibrated at 1 m per the SAE ARP 958

