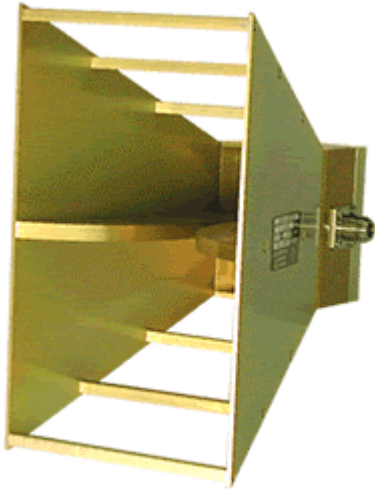


Model: SAS-571



FEATURES:

- 700 MHz – 18 GHz
- Receive and Transmit
- Individually Calibrated
- Low VSWR
- FCC, MIL-STD, VDE and TEMPEST Testing
- Rugged Design

INTRODUCTION

Each antenna is lightweight, compact, rugged and has been manufactured to ensure maximum gain, low VSWR and high power handling capabilities. Whether testing inside a shielded enclosure or outdoors, this antenna will display efficient performance characteristics through the broad frequency range of 700 MHz to 18 GHz.

INTENDED PURPOSES

This equipment is intended for general laboratory use in a wide variety of industrial and scientific applications and is designed to be used in the process of generating, controlling and measuring high levels of electromagnetic Radio Frequency (RF) energy. It is the responsibility of the user to assure that the device is operated in a location which will control the radiated energy such that it will not cause injury and will not violate

regulatory levels of electromagnetic interference.

PROFESSIONAL APPLICATION

The A.H. Systems Double Ridge Guide Horn Antenna is used by EMC test labs as well as Regulatory, military and security authorities for a variety of applications. For example, the Double Ridge Guide Horn Antenna is suitable for MIL-STD approval tests on electronic devices as well as general field strength measurements.

RECOMMENDED ACCESSORIES

- **ATU-510** Antenna Tripod Unit, Wooden
- **AEH-510** Azimuth and Elevation Head
- **PAM-0118** Preamplifier, 33 dB Gain
- **SAC-18G-3** 3 Meter cable, High-Frequency, Low-Loss N(m) to N(m)



SPECIFICATIONS

The SAS-571 Double Ridge Guide Horn Antenna Specifications:

Frequency Range	700 MHz - 18 GHz
Antenna Factor (dB/m)	22-45
Gain (dBi)	12 dBi
Maximum Continuous Power	300 Watts
Maximum Radiated Field	200 V/m
Impedance	50 Ω
VSWR (average)	1.6:1
RF Connector	Type N female
Mounting base	1/4"-20 female
Weight	3.5 lbs. / 1.59 kg
Size (W x H x D)	5.6" x 9.6" x 11.0"
.....	14.2cm x 24.4cm x 27.9cm

APPLICATIONS

The model SAS-571 Double Ridge Horn antenna is a broadband High gain antenna with low VSWR. It has an input handling capability up to 300 watts CW, and rugged design make this horn antenna excellent for both immunity and emissions testing

Attach the antenna to the tripod azimuth and elevation head through the hole on the antenna bottom or the hole in the mounting bracket. The ridge guides determine the antenna polarity: for horizontal polarity they should be parallel to the ground, for vertical polarity they should be perpendicular to the ground. Connect a cable between the antenna connector and the receiver.

For more information about our calibration services or to place an order for antenna calibration visit our website at <http://www.AHSystems.com> or call 1(818) 998-0223.

GENERAL USE INSTRUCTIONS

The double ridge guide horn antenna comes assembled and ready to use. The antenna mounting bracket is attached to the antenna backwards for packing purposes. The bracket must be removed from the antenna, turned over (so that the bracket leg faces away from the antenna), and re-attached to the antenna. (The bracket is not needed for mounting if the tripod being used has an Azimuth/Elevation Head.)

NOTE: BE SURE TO USE A CABLE RATED FOR HIGH FREQUENCY WHEN OPERATING ABOVE 5 GHz.

MAINTENANCE

Annual recalibration is recommended to ensure reliable and repeatable performance. A.H. Systems experienced technicians can recalibrate almost any type or brand of antenna.

Ask about our



Innovation

Quality

Performance

Phone: (818)998-0223 ♦ Fax (818)998-6892
<http://www.AHSystems.com>

A.H. Systems



TYPICAL DATA

The SAS-571 Double Ridge Guide Horn Antenna is supplied with an individual 1, 3 and 10 Meter horizontal calibration. Below is a set of typical antenna data for the SAS-571.



A.H. Systems Inc.

9710 Cozycroft Ave. Chatsworth, CA 91311

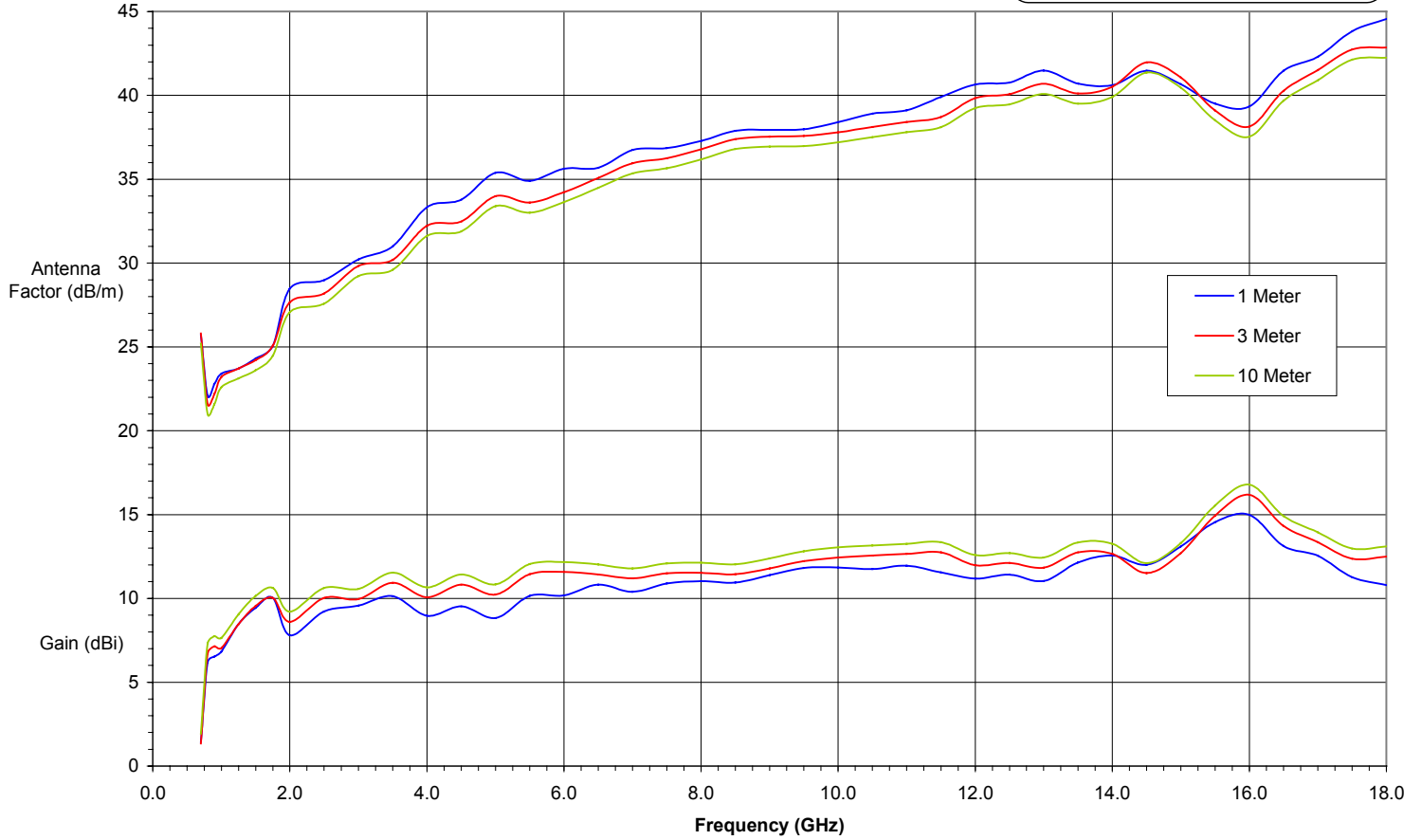
Phone (818) 998-0223 Fax (818) 998-6892

E-mail: sales@AHSystems.com

Web site: <http://www.AHSystems.com>

**Antenna Data
Double Ridge Guide
Horn Antenna
Model: SAS-571**

Conversion of meter reading
to field strength:
 $dBuV/m = dBuV + AF + \text{cable loss}$



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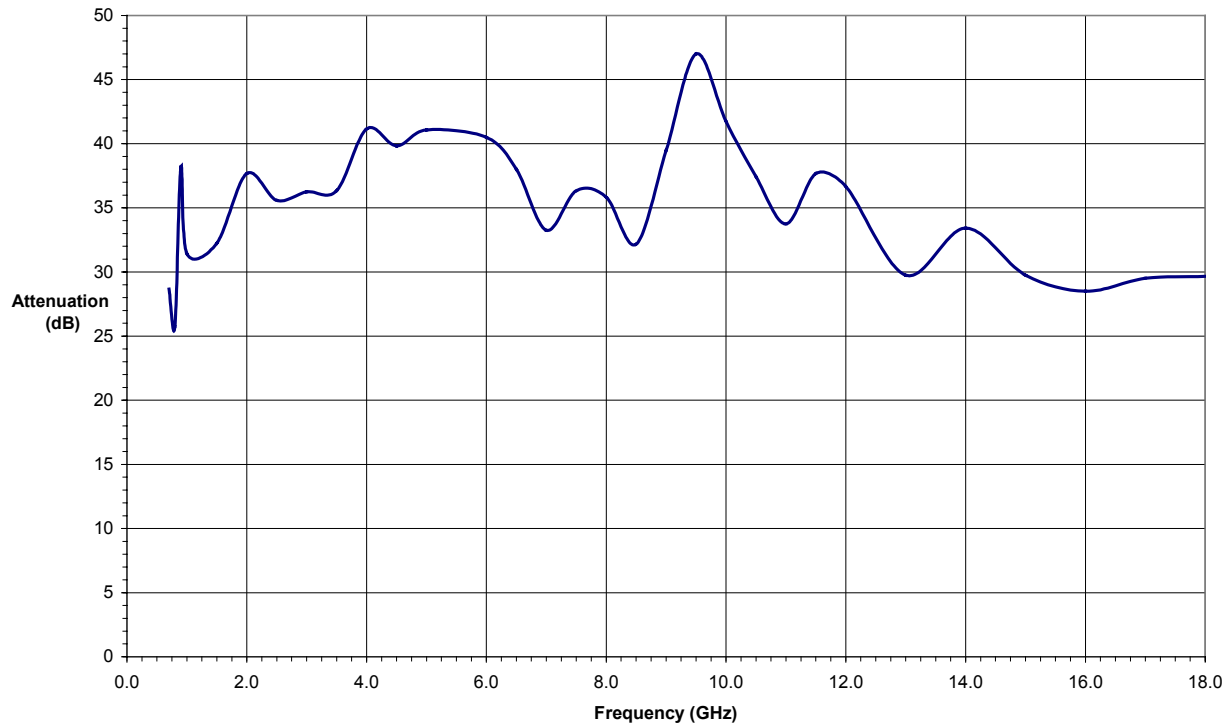




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**Cross Polarization
 Model: SAS-571**



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**Half Power Beamwidth
 Model: SAS-571**

