A.H. Systems, Inc.
9710 Cozycroft Ave.
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Tel: (818) 998-0223 ◆ sales@AHSystems.com
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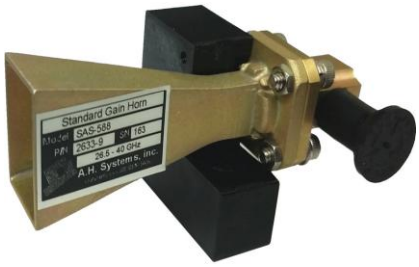
SAS-588

Standard Gain Horn Antenna

26.5 GHz – 40 GHz

This Standard gain horn antenna has medium gain, low VSWR, and a constant antenna factor; excellent for both immunity and emissions testing.



Frequency Range:	26.5 GHz - 40 GHz
Antenna Factor:	46 dB/m
Gain:	14.6 dBi
Maximum Continuous Power:	10 Watts
Max Radiated Field:	100 V/m
Beamwidth E-plane:	31°
Beamwidth H-plane:	30°
Impedance:	50 Ω
VSWR:	1.3:1 (1.5:1 max)
Connector:	WR-28 to 2.9mm-Type female adapter

Features

- Frequency Range of 26.5 GHz to 40 GHz
- Linearly Polarized High Gain, Low VSWR
- Individually Calibrated at 1 Meter Horizontal Polarity
- Attached Tripod Mount for Horizontal and Vertical Mounting
- Three year Warranty

The Standard Gain Horn Antennas are designed specifically for utilization in emissions and immunity testing over the frequency range of 1 to 40 GHz. Each antenna is linearly polarized and has medium gain, low VSWR, and a constant antenna factor. The Standard Gain Horn performance is very precise and predictable through design parameters. Comparisons of measured versus computed antenna factors and gain have been shown to be +/- .5 dB. Therefore, the antenna is considered to be a standard reference, similar to that of a resonant dipole below 1 GHz. The coax-to-waveguide adapter is the only power-limiting component on the antenna and can be removed if high fields are desired. Each Standard Gain Horn comes with a tripod mount that adapts to any tripod with ¼-20 male threads. Horizontal and vertical polarization is obtained by rotating the antenna on the tripod.

Recommended Accessories

- ATU-514 (Antenna Tripod)
- AEH-510 (Azimuth and Elevation Head)
- SAC-40G-1.5 (1.5 Meter Low Loss Cable)

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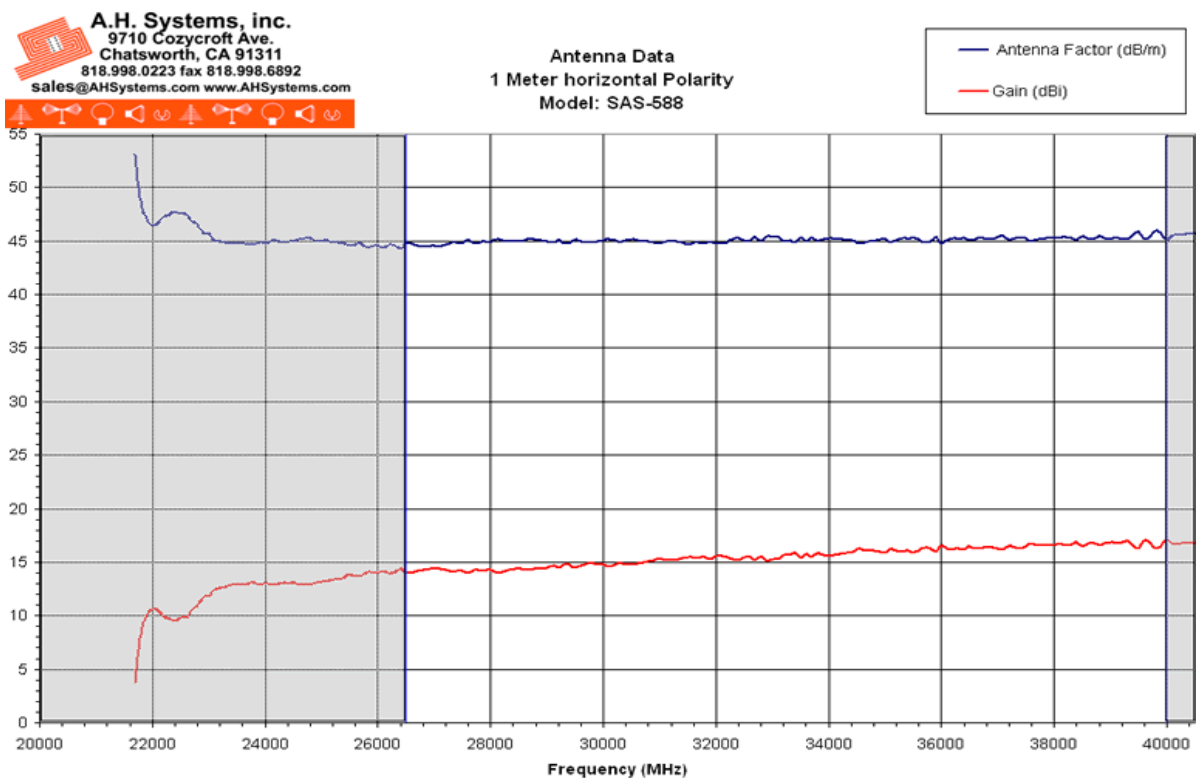

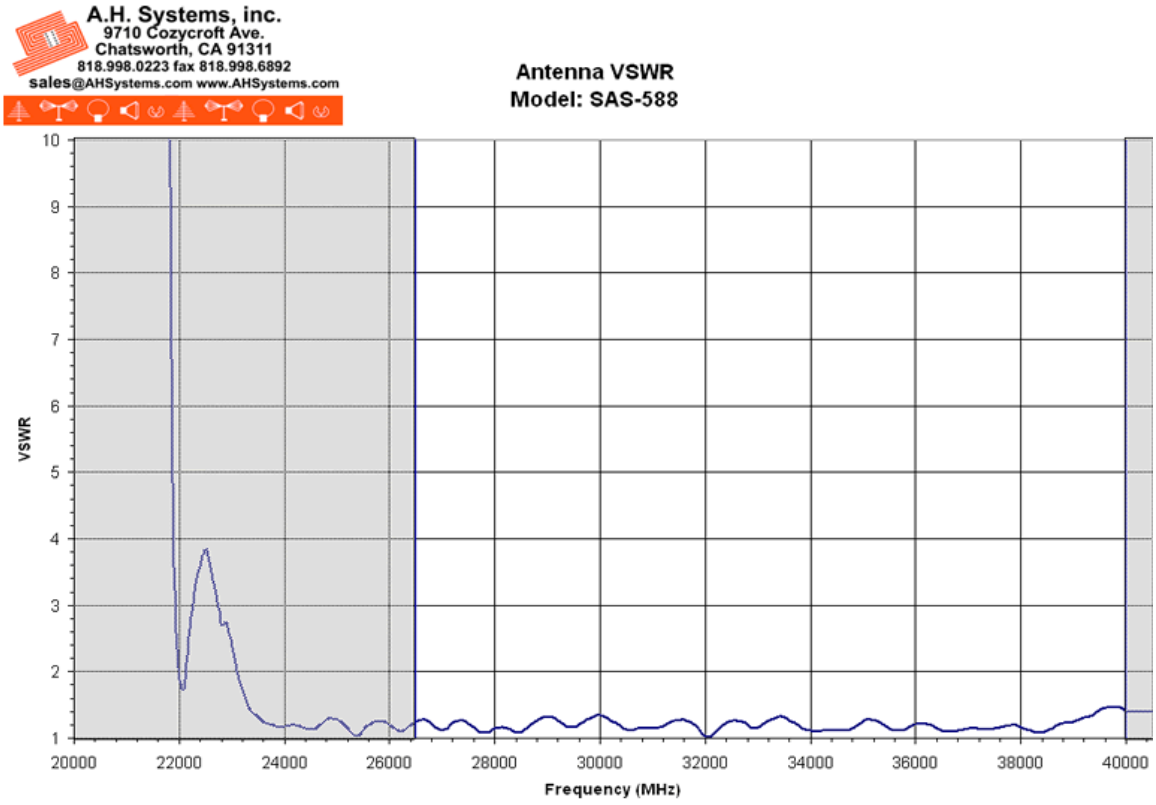

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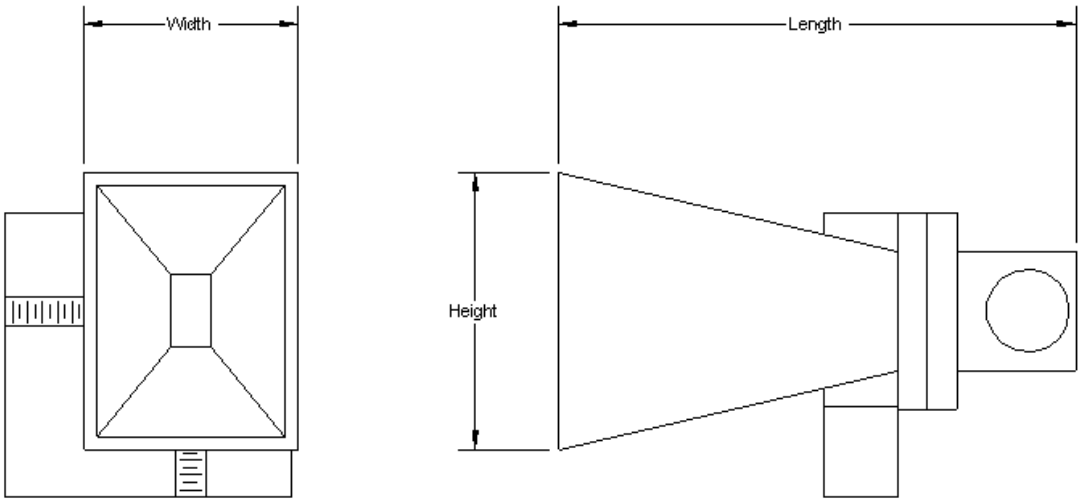

Figure 1 – SAS-588 (Horizontal Polarization)

Physical Dimensions:

Length: 2.9 in. *(7.37 cm)*
Width: 0.6 in. *(1.52 cm)*
Height: 0.9 in. *(2.29 cm)*
Weight: 0.1 lb.'s *(0.05 kg)*