A.H. Systems, Inc.
9710 Cozycroft Ave.
Chatsworth, CA 91311

Tel: (818) 998-0223 ◆ sales@AHSystems.com
Fax: (818) 998-6892 ◆ www.AHSystems.com

SAS-586-20

Standard Gain Horn Antenna

12.4 GHz – 18 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:	12.4 GHz - 18 GHz
Antenna Factor:	33 - 35 dB/m
Average Gain:	19.7 dBi
Maximum Continuous Power:	200 Watts
Beamwidth E-plane:	18.5°
Beamwidth H-plane:	19°
Impedance:	50 Ω
Average VSWR:	1.2:1 (1.5:1 max)
Connector:	WR-62 to N-Type female adapter

Features

- Frequency Range of 12.4 GHz to 18 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-18G-3 (3 Meter Low Loss Cable)

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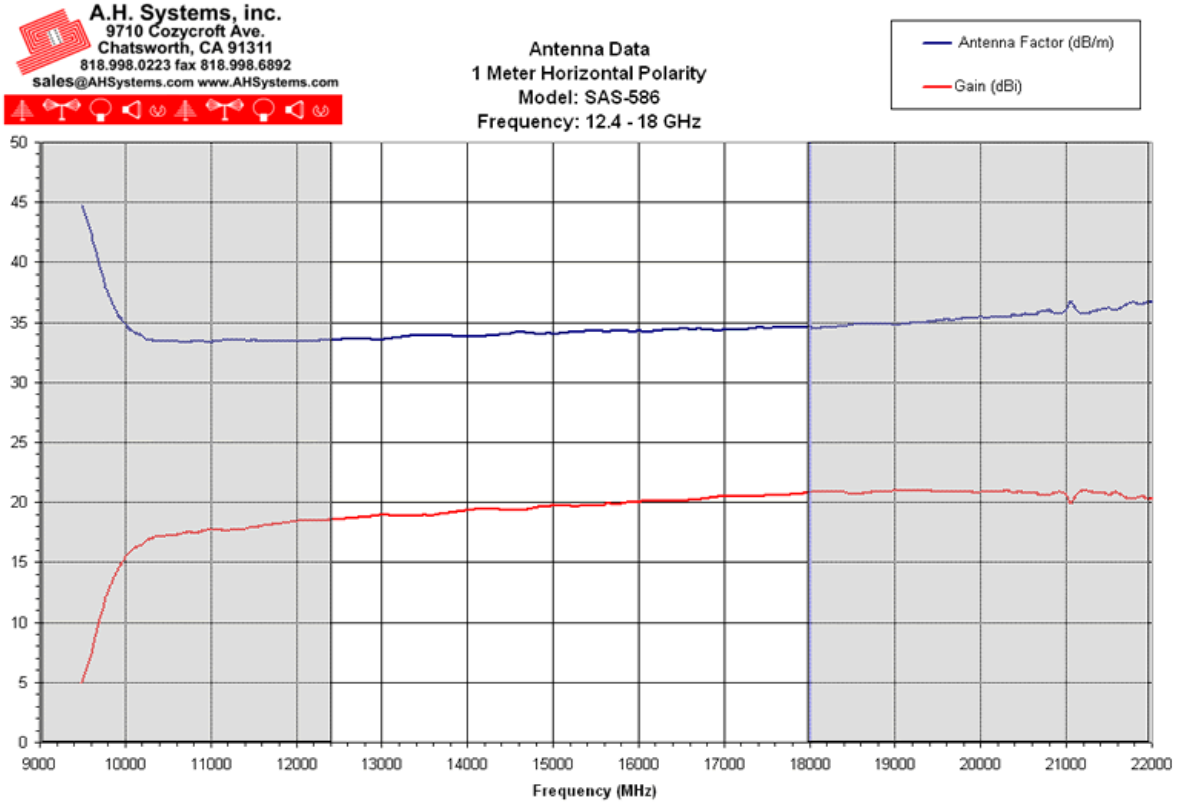
Antenna Data
1 Meter Horizontal Polarity
Model: SAS-586
Frequency: 12.4 - 18 GHz



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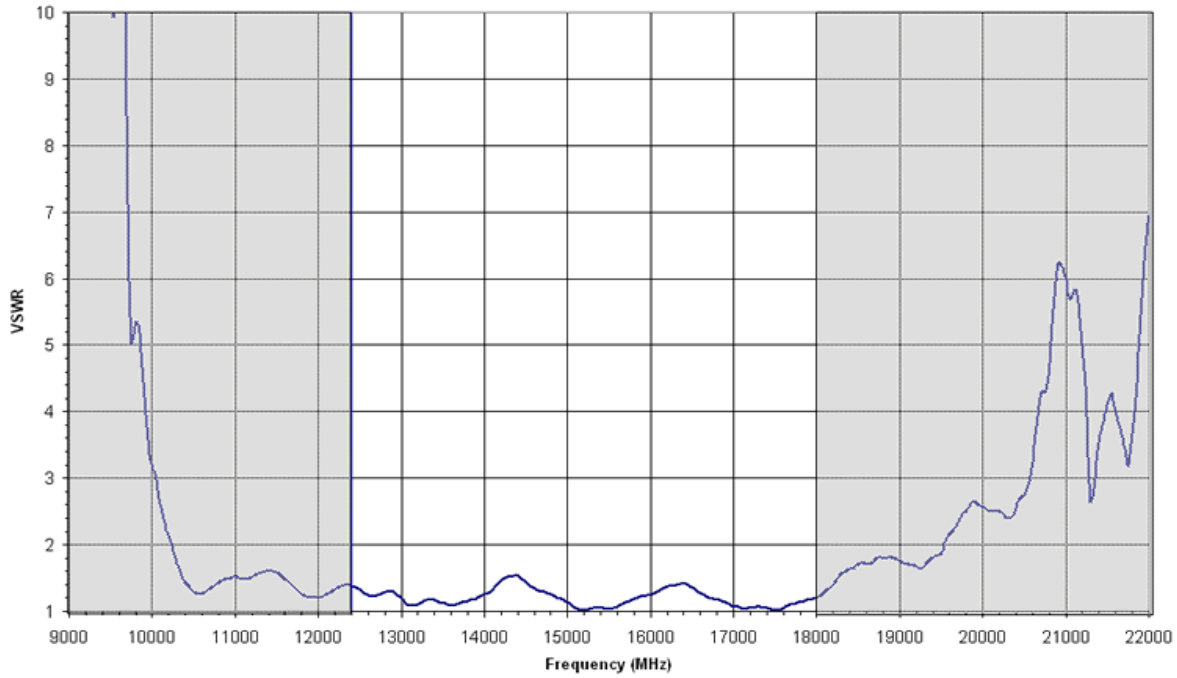
Antenna VSWR
Model: SAS-586-20
Frequency: 12.4 - 18 GHz



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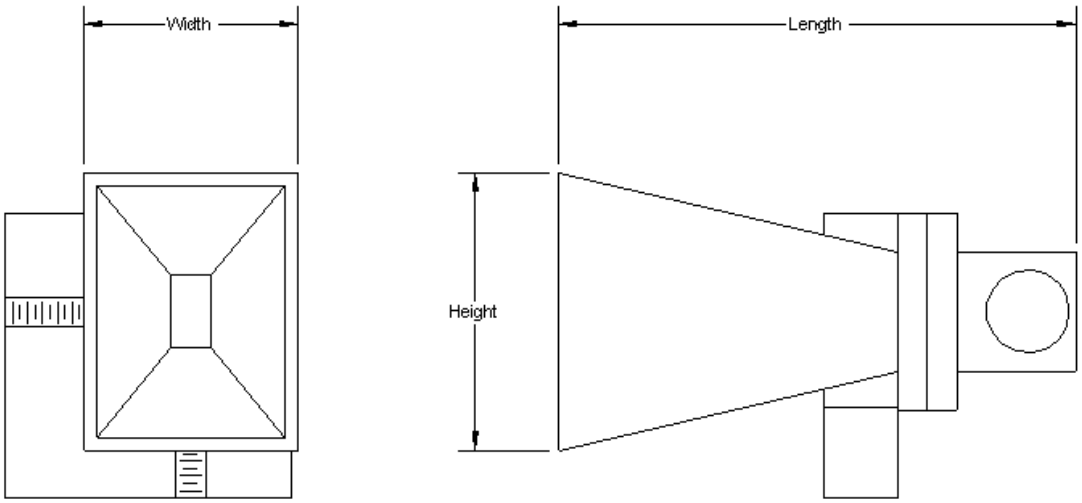

Figure 1 – SAS-586-20 (Horizontal Polarization)

Physical Dimensions:

Length: 6.75 in. *(17.1 cm)*
Width: 2.125 in. *(5.4 cm)*
Height: 2.88 in. *(7.3 cm)*
Weight: 0.6 oz *(158 g)*