



## 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-584-20

### Standard Gain Horn Antenna

5.85 GHz – 8.20 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: 5.85 GHz – 8.20 GHz

Antenna Factor: 26 - 28 dB/m

Average Gain: 19.9 dBi

Maximum Continuous  
Power: 250 Watts

Beamwidth E-plane: 19°

Beamwidth H-plane: 18.6°

Impedance: 50  $\Omega$

Average VSWR: 1.11:1 (1.25:1 max)

Connector: WR-137 to N-Type female adapter

### Features

- Frequency Range of 5.85 GHz to 8.2 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 1/4-20 male threads. Horizontal and vertical polarization is obtained by rotating the antenna on the tripod.

### Recommended Accessories

- ATU-510 (Antenna Tripod Unit, Wooden)
- AEH-510 (Azimuth and Elevation Head)
- SAC-18G-3 (3 Meter Low Loss Cable)



# A.H. Systems, Inc.

9710 Cozycroft Ave.  
Chatsworth, CA 91311



Tel: (818) 998-0223  
Fax: (818) 998-6892

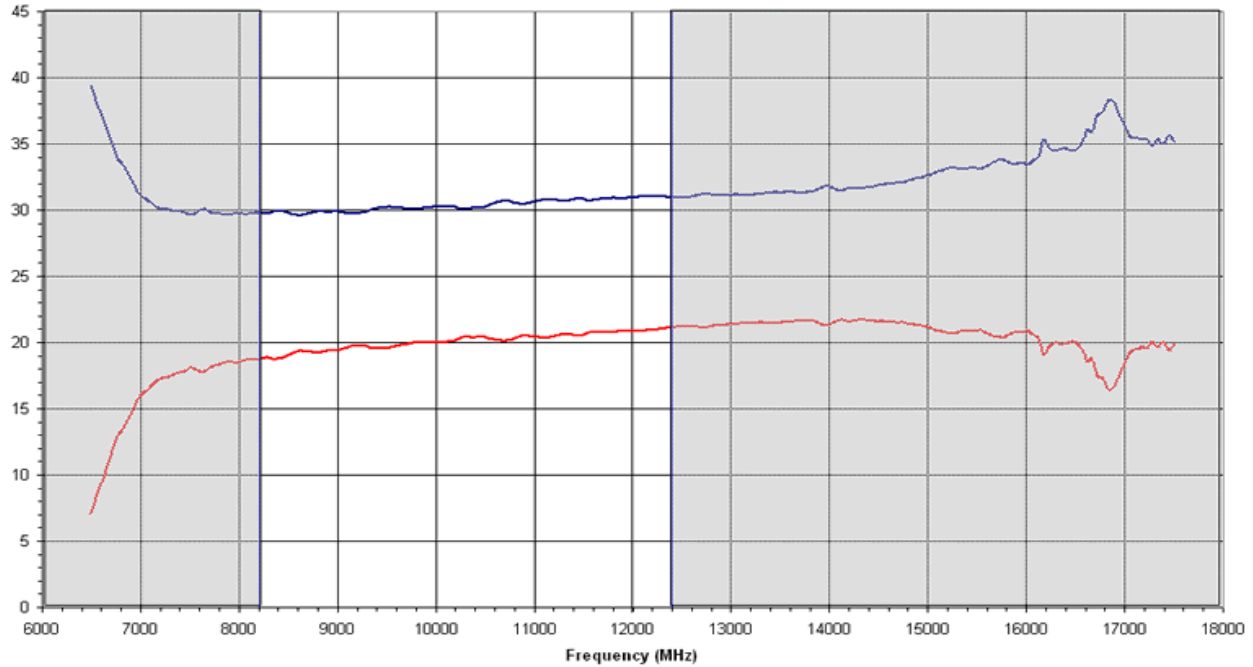
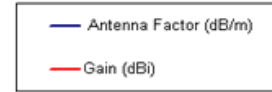
◆ sales@AHSystems.com  
◆ www.AHSystems.com



**A.H. Systems, inc.**  
9710 Cozycroft Ave.  
Chatsworth, CA 91311  
818.998.0223 fax 818.998.6892  
sales@AHSystems.com www.AHSystems.com



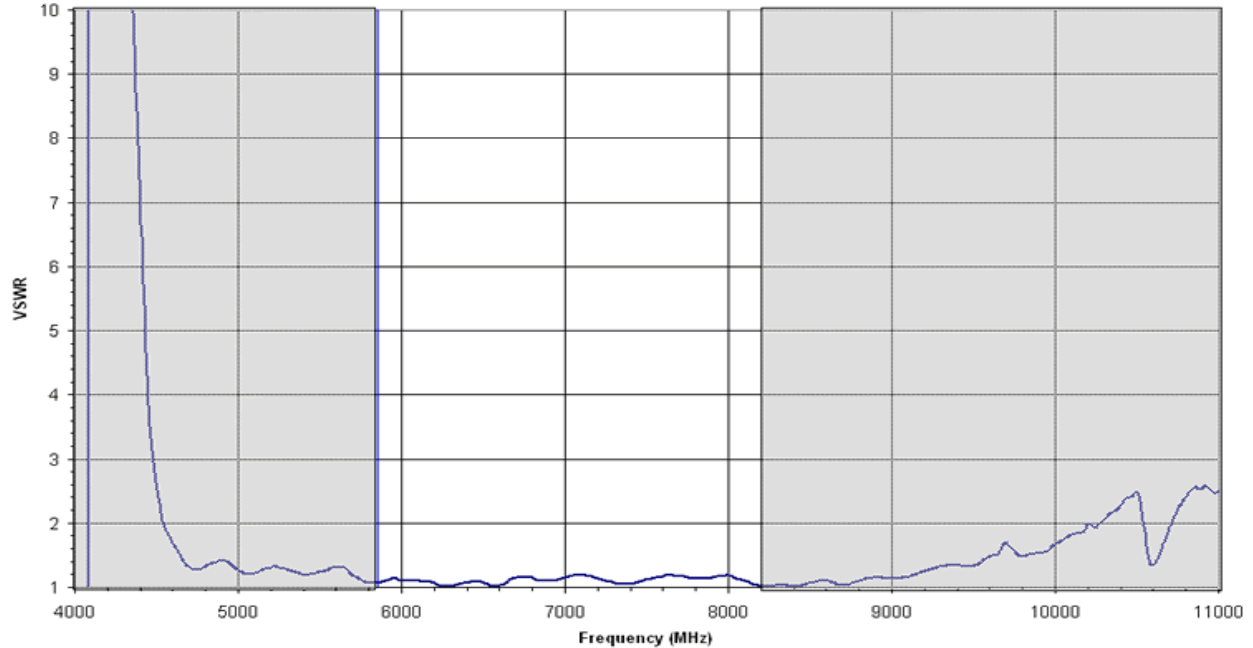
**Antenna Data**  
1 Meter horizontal Polarity  
Model: SAS-585-20  
Frequency: 8.2 - 12.4 GHz



**A.H. Systems, inc.**  
9710 Cozycroft Ave.  
Chatsworth, CA 91311  
818.998.0223 fax 818.998.6892  
sales@AHSystems.com www.AHSystems.com



**Antenna VSWR**  
Model: SAS-584-20  
Frequency: 5.85 - 8.2 GHz





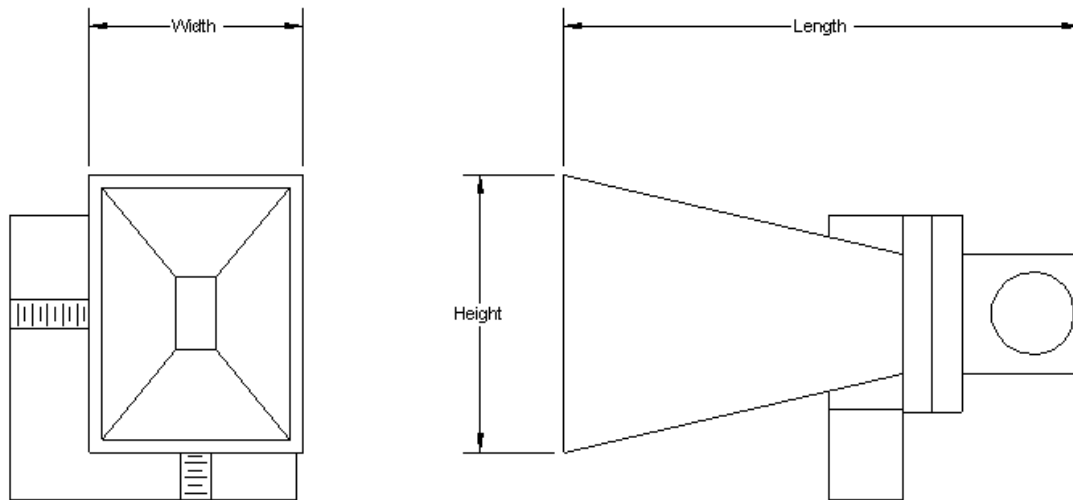
**A.H. Systems, Inc.**

9710 Cozycroft Ave.  
Chatsworth, CA 91311



Tel: (818) 998-0223  
Fax: (818) 998-6892

◆ sales@AHSystems.com  
◆ www.AHSystems.com



*Figure 1 – SAS-584-20 (Horizontal Polarization)*

**Physical Dimensions:**

Length: 14.2 in. (36 cm)

Width: 4.6 in. (11.7 cm)

Height: 6.25 in. (15.9 cm)

Weight: 1.9 lb. (861 g)