



FEATURES

- Precision Gain Calibration Standard
- Robust Welded Mechanical Design
- Compliant with NRL-4433 Standard
- Linear Polarization

DESCRIPTION

NSI-MI Technologies' Standard Gain Horns (ANT-SGH) are used in antenna test range applications, and have been designed to deliver accurate and reliable antenna gain measurements. The horns are available to cover the frequency range from 0.35 to 170 GHz. They are plated prior to painting to prevent corrosion. NRL Curves for Peak Gain are provided with each antenna.

INCLUDES

- ANT-SGH Standard Gain Horn
- NRL Curve for Peak Gain
- User Manual

AVAILABLE ADD-ONS

- Gain and Pattern Calibration
- Custom Mount Options
- Absorber Panel
- Product Case
- Coax-to-Waveguide Adapter (ANT-CWA)

SPECIFICATIONS

Model	Frequency Range (GHz)	Material	Waveguide Type	Nominal Gain (dBi)	Weight kg (lb)
ANT-SGH-0.32-0.49-RS	0.32 - 0.49	Aluminum	WR-2300	10.0	36 (79)
ANT-SGH-0.32-0.49	0.32 - 0.49	Aluminum	WR-2300	15.5	106 (234)
ANT-SGH-0.35-0.53-RS	0.35 - 0.53	Aluminum	WR-2100	10.0	28 (62)
ANT-SGH-0.35-0.53	0.35 - 0.53	Aluminum	WR-2100	15.5	95 (210)
ANT-SGH-0.41-0.63-RS	0.41 - 0.625	Aluminum	WR-1800	10.0	17 (38)
ANT-SGH-0.41-0.63	0.41 - 0.625	Aluminum	WR-1800	15.5	66 (145)
ANT-SGH-0.49-0.75-RS	0.49 - 0.75	Aluminum	WR-1500	10.0	14 (31)
ANT-SGH-0.49-0.75	0.49 - 0.75	Aluminum	WR-1150	15.5	45 (100)
ANT-SGH-0.64-0.96	0.64 - 0.96	Aluminum	WR-1150	15.5	31 (68)
ANT-SGH-0.75-1.12	0.75 - 1.12	Aluminum	WR-975	15.5	13 (28)
ANT-SGH-0.96-1.45	0.96 - 1.45	Aluminum	WR-770	13.7	7 (15)
ANT-SGH-1.12-1.7	1.12 - 1.70	Aluminum	WR-650	15.5	5.4 (12)
ANT-SGH-1.45-2.2	1.45 - 2.20	Aluminum	WR-510	15.5	3.6 (8)
ANT-SGH-1.7-2.6	1.7 - 2.6	Aluminum	WR-430	15.5	2.5 (5.6)
ANT-SGH-2.2-3.3	2.2 - 3.3	Aluminum	WR-340	15.5	1.8 (4)
ANT-SGH-2.6-3.95	2.60 - 3.95	Aluminum	WR-284	18.0	2.5 (5.5)
ANT-SGH-3.3-4.9	3.3 - 4.9	Aluminum	WR-229	18.0	1.5 (3.2)
ANT-SGH-3.95-5.85	3.95 - 5.85	Aluminum	WR-187	18.0	1.1 (2.5)
ANT-SGH-4.9-7.05	4.90 - 7.05	Aluminum	WR-159	18.0	0.8 (1.7)
ANT-SGH-5.85-8.2	5.85 - 8.20	Aluminum	WR-137	22.1	2.3 (5)
ANT-SGH-7.05-10	7.05 - 10.00	Aluminum	WR-112	18.0	0.9 (0.4)
ANT-SGH-8.2-12.4	8.2 - 12.4	Aluminum	WR-90	22.1	1.0 (2.3)
ANT-SGH-10-15	10.0 - 15.0	Aluminum	WR-75	24.7	1.2 (2.6)
ANT-SGH-12.4-18	12.4 - 18.0	Aluminum	WR-62	24.7	0.6 (1.4)
ANT-SGH-15-22	15.0 - 22.0	Aluminum	WR-51	24.7	2.7 (1.2)
ANT-SGH-18-26.5	18.0 - 26.5	Aluminum	WR-42	24.7	0.7 (1.5)
ANT-SGH-22-33	22.0 - 33.0	Aluminum	WR-34	24.7	0.4 (0.9)
ANT-SGH-26.5-40	26.5 - 40.0	Aluminum	WR-28	24.7	0.3 (0.6)
ANT-SGH-33-50	33.0 - 50.0	Aluminum	WR-22	24.7	0.2 (0.4)
ANT-SGH-40-60	40.0 - 60.0	Brass	WR-19	24.7	0.2 (0.4)
ANT-SGH-50-75	50.0 - 75.0	Brass	WR-15	24.7	0.1 (0.2)
ANT-SGH-60-90	60.0 - 90.0	Brass	WR-12	24.7	0.1 (0.2)
ANT-SGH-75-110	75.0 - 110.0	Brass	WR-10	24.7	0.05 (0.1)
ANT-SGH-90-140	90.0 - 140.0	Brass	WR-8	24.7	0.05 (0.1)
ANT-SGH-110-170	110.0 - 170.0	Brass	WR-7	24.7	0.05 (0.1)