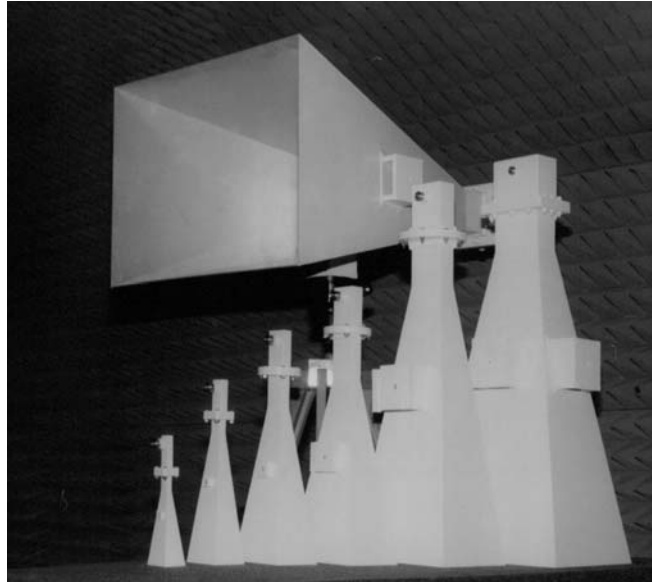


Our **SWH series** Standard Gain Horn antennas are available in contiguous waveguide bands from 750 MHz to 40 GHz. All **SWH** horns have equal beamwidth in both E and H-planes. Characterized by antenna factors that are flat to within ± 0.5 dB, Standard Gain Horns make an excellent choice as reference standards for emissions testing around and above 1 GHz as outlined in ANSI C63.4.

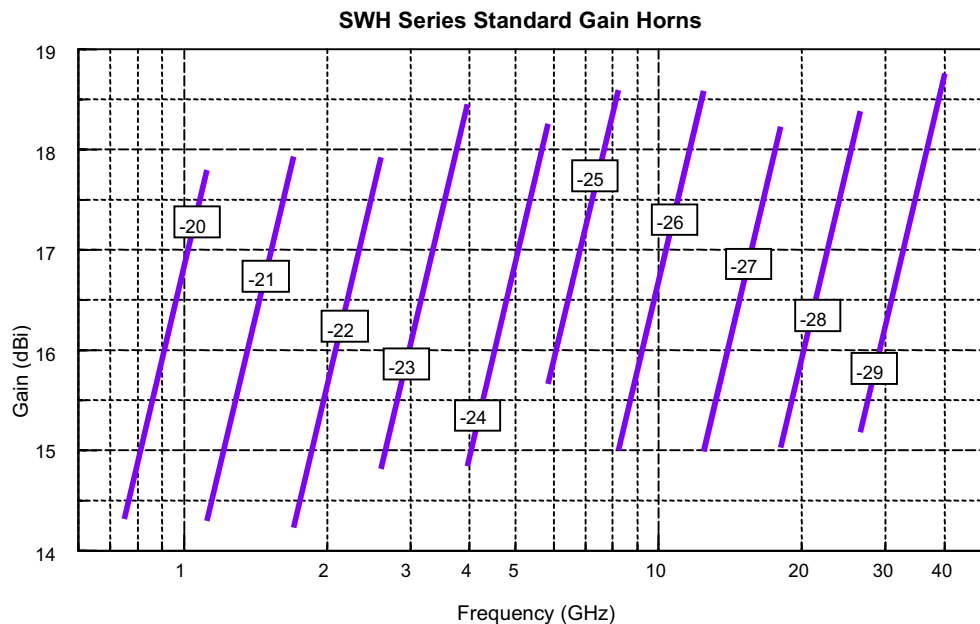
Each horn is supplied with a detachable coax-to-waveguide adapter and an interface for mounting to a standard tripod in both vertical and horizontal polarizations. For high power applications such as immunity testing, standard waveguide flanges mate directly to the waveguide output of the amplifier/transmitter.



SWH SERIES ANTENNAS

When used as radiators for immunity testing, Standard Gain Horns are unparalleled due to their high gain, low VSWR ($<1.5:1$) and their ability to handle high levels of RF power.

OWH series Octave Band Horns are essentially standard waveguide horns (equal beamwidth in both planes) described above. However, these horns are supplied with waveguide-to-coax adapters optimized for an octave band to match with the frequency range of operations of commonly used power amplifiers.



STANDARD GAIN AND OCTAVE HORN ANTENNAS

ELECTRICAL SPECIFICATIONS

	FREQUENCY RANGE (GHz)	TYPICAL GAIN (MID- BAND)	TYPICAL ANTENNA FACTOR	CONNECTOR TYPE
SWH-20	0.75 - 1.12	16.2 dBi	13.4 dB m ⁻¹	N female
SWH-20/A	0.96 - 1.46	16.5 dBi	15.4 dBm ⁻¹	N female
SWH-21	1.12 - 1.70	16.3 dBi	16.9 dB m ⁻¹	N female
SWH-22	1.70 - 2.60	16.3 dBi	20.6 dB m ⁻¹	N female
SWH-23	2.60 - 3.95	16.8 dBi	23.7 dB m ⁻¹	N female
SWH-24	3.95 - 5.85	16.7 dBi	27.3 dB m ⁻¹	N female
SWH-25	5.85 - 8.20	17.2 dBi	29.9 dB m ⁻¹	N female
SWH-26	8.20 - 12.40	17.0 dBi	33.5 dB m ⁻¹	N female
SWH-27	12.40 - 18.00	16.8 dBi	37.1 dB m ⁻¹	N female
SWH-28	18.00 - 26.50	16.9 dBi	40.3 dB m ⁻¹	K female
SWH-29	26.50 - 40.00	17.1 dBi	43.5 dB m ⁻¹	K female
OWH-12/A	1.00 - 2.00	16.8 dBi	16.9 dB m ⁻¹	N female
OWH-24/B	2.00 - 4.00	17.5 dBi	22.3 dB m ⁻¹	N female
OWH-48/B	4.00 - 8.00	17.5 dBi	28.3 dB m ⁻¹	N female

MECHANICAL SPECIFICATIONS

	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	WAVEGUIDE
SWH-20	41	33	24	WR-975
SWH-20/A	40.6	24.9	18.7	WR-770
SWH-21	35	21	16	WR-650
SWH-22	25	14	10	WR-430
SWH-23	22	9.5	7.0	WR-284
SWH-24	15	6.5	5.0	WR-187
SWH-25	12	5.0	3.5	WR-137
SWH-26	9.0	3.0	2.5	WR-90
SWH-27	5.5	2.0	1.5	WR-62
SWH-28	4.0	1.5	1.0	WR-42
SWH-29	3.5	1.0	.85	WR-28
OWH-12/A	35	21	16	WR-650
OWH-24/B	23	14	9.0	WR-340
OWH-48/B	13	7.0	4.5	WR-159