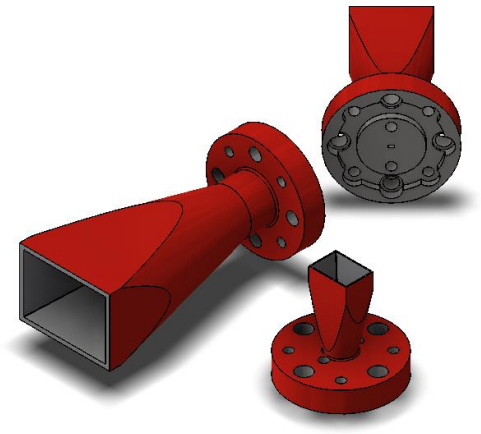
High performance SGH-26-WR



- **High performance Standard Gain Horn.**
- **Standard WR input with UG-387 U/M flange.**
- **26dB nominal gain at center frequency.**
- **Specific gain values can be requested.**

Description

This type of horn is suitable for laboratory test measurements, electromagnetic measurements and gain calibration. Models presented have around 26 dB gain at central frequency, but any customer requirement gain value is accepted. These antennas are equipped with the standard UG-387 U/M precision style flange, the flange is manufactured in special way to provide the most accurate and repeatable mechanical alignment possible.

Additional notes

Horn antenna exterior appearance is designed to minimize weight, improve robustness and offer an sharp aperture; but exterior appearance, flange or additional support structures if needed can be defined as customer needs.

Horn antenna is manufactured from a single aluminum rod, no soldering for flanges and no screws for attaching parts are included.

Mechanical and Electrical Specifications

	Description
Flange	Standard UG-387 U/M
Fabrication	In a single aluminum piece
External color	Ruby Red
Material	Aluminum

Table 1: Mechanical specifications of SGH antennas.

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High performance SGH-26-WR

Model	Input waveguide	fmin [GHz]	f0 [GHz]	fmax [GHz]	Length [mm]	A [mm]	B [mm]	VSWR
SGH-26-WR10	WR-10.0	75	92	110	80	31	22	<1,1
SGH-26-WR08	WR-8.0	90	110	140	64	25	18	<1,1
SGH-26-WR06	WR-6.5	110	140	170	52	20	14	<1,15
SGH-26-WR05	WR-5.1	140	180	220	41	16	11	<1,2
SGH-26-WR04	WR-4.3	170	215	260	35	13	9	<1,2
SGH-26-WR03	WR-3.4	220	275	330	27	11	8	<1,25
SGH-26-WR2.8	WR-2.8	260	330	400	23	9	7	<1,3
SGH-26-WR2.2	WR-2.2	330	415	500	18	7	5	<1,3

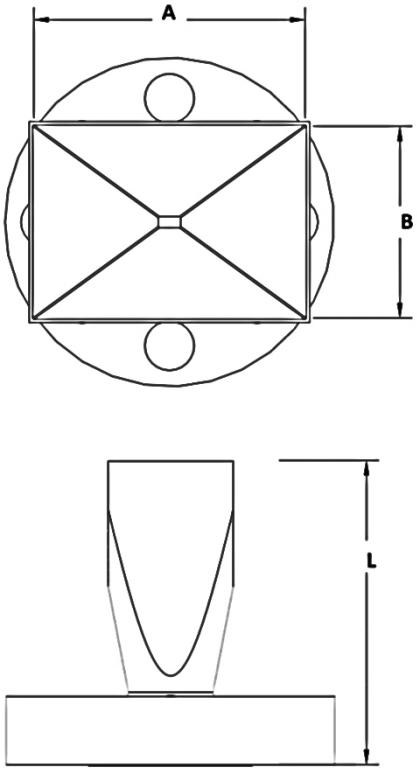
Table 2: Size and operating frequency of each antenna model.

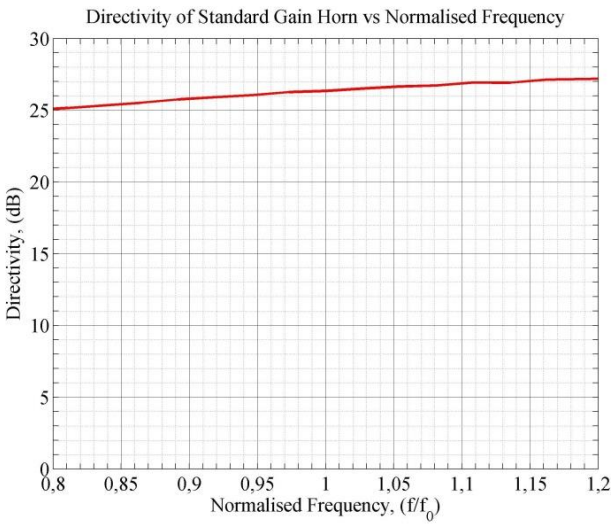
Radiation Patterns Parameters

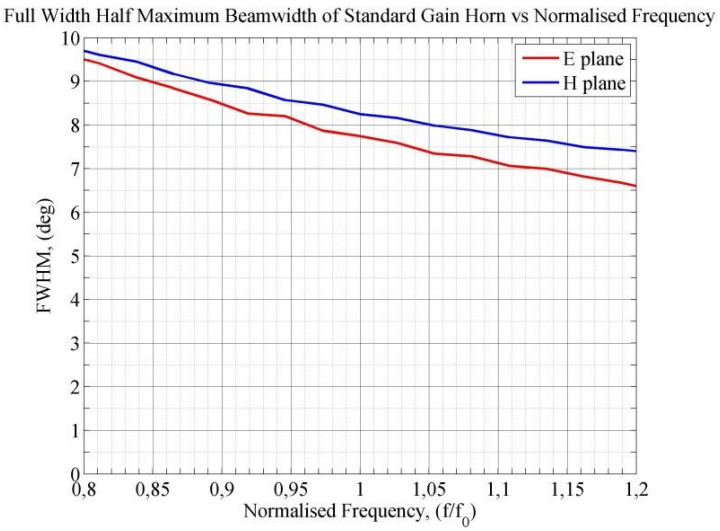
Frequency [f/f0]	Directivity [dB]	FWHM (deg.)	
		E-plane	H-plane
0,800	25,1	9,5	9,7
0,811	25,2	9,4	9,6
0,838	25,3	9,1	9,5
0,865	25,5	8,8	9,2
0,892	25,8	8,6	9,0
0,919	25,9	8,3	8,8
0,946	26,1	8,2	8,6
0,973	26,3	7,9	8,5
1,000	26,3	7,7	8,2
1,027	26,5	7,6	8,2
1,054	26,7	7,3	8,0
1,081	26,7	7,3	7,9
1,108	26,9	7,1	7,7
1,135	26,9	7,0	7,6
1,162	27,1	6,8	7,5
1,189	27,2	6,7	7,4
1,200	27,2	6,6	7,4

Table 3: Antenna radiation pattern values vs. frequency.

Antenna Dimensions







Radiation Patterns