

# Standard Gain Pyramidal Horns

- High performance
- Low VSWR

- Rectangular or Circular Waveguide
- Compact size

## Applications

- Antenna test system
- Radiometry
- Radars



## Description.

Elva's SGPH series of standard gain horn antennas cover the frequency range of 18 to 220 GHz in ten waveguide bands. They can be issued with rectangular or circular waveguide. These horns are ideal solution for measurement gain of other antennas, short range radars and radiometers.

## Specifications.

Part No.	Frequency GHz	Waveguide	Flange	Gain, dB	Return loss, dB	A, mm	B, mm	L, mm
SGPH-K	18-26,5	WR-42	UG-595/U	24	20	103.9	79.0	216
SGPH-Ka	26,5-40	WR-28	UG-599/U	24	20	69.6	52.9	145
SGPH-Q	33-50	WR-22	UG-383/M	24	20	55.7	42.4	116
SGPH-U	40-60	WR-19	UG-383/U-M	24	20	46.2	35.1	96
SGPH-V	50-75	WR-15	UG-385/U	24	20	37.0	28.1	77
SGPH-E	60-90	WR-12	UG-387/U	24	20	30.7	23.3	64
SGPH-W	75-110	WR-10	UG-387/U-M	24	20	25.0	19.0	52
SGPH-F	90-140	WR-08	UG-387/U-M	24	20	20.0	15.3	42
SGPH-D	110-170	WR-06	UG-387/U-M	24	20	16.5	12.5	34
SGPH-G	140-220	WR-05	UG-387/U-M	24	20	13.0	9.8	27

\*The models up to 400 GHz are available upon request.

## Outline Drawing.

