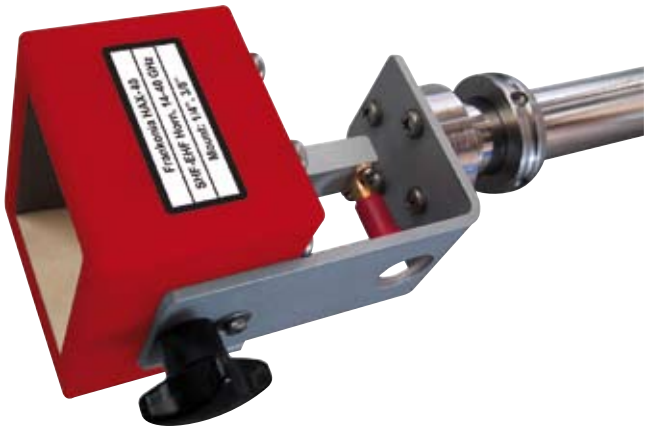
Broadband Horn Antenna - HAX-40, 14 GHz – 40 GHz

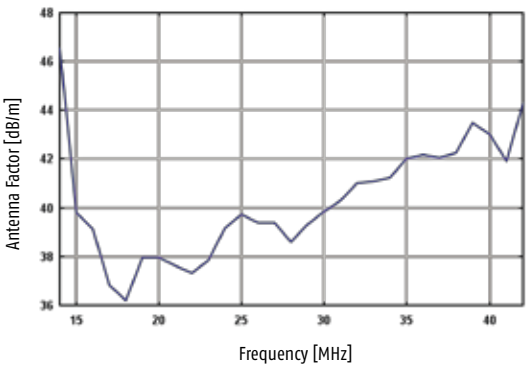
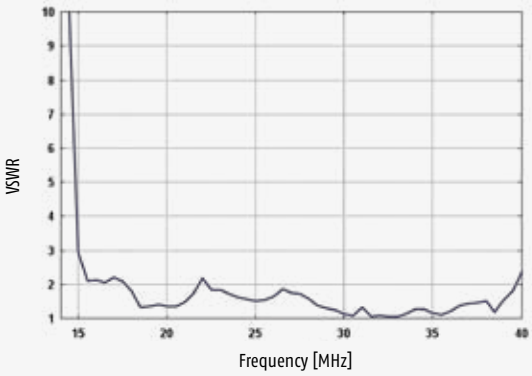
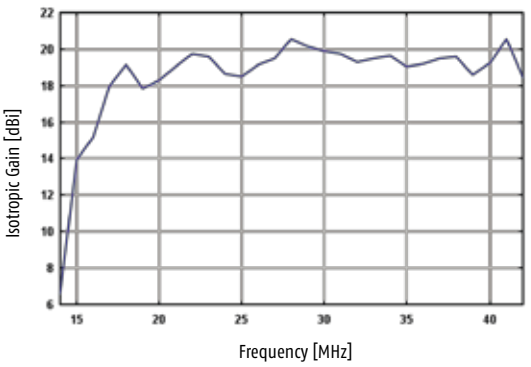
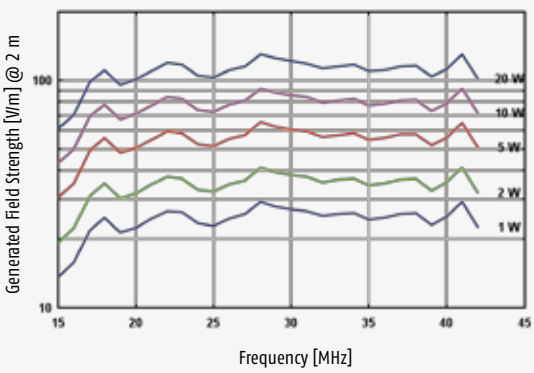
for immunity tests and emission measurements



Description

The horn antennas HAX offer a very low SWR in their nominal frequency range and a very broad bandwidth. The gain increases with frequency up to approx. 20 dBi. The increasing gain with frequency helps to compensate cable losses.

The HAX series is suitable for both, transmission and receiving applications. The maximum allowed input power is only limited by the female N-connector. The detailed manual of the calibrated test antennas includes gain, antenna factor, SWR and directional patterns. The antenna is mounted with the 22 mm tube, equipped with a index ring for quick changes of polarization without using tools.

Technical specifications	
Type:	HAX-40
Frequency range:	14 GHz to 40 GHz
Max. input power	10 W (cont.)
	25 W (peak)
Nominal impedance:	50 Ohm
Connection:	SMA-compatible / female
Isotropic gain:	15 ... 20 dBi
Antenna factor:	38 ... 45 dB/m
SWR typical:	≈ 2
Front to back ratio:	> 30 dB
Cross polarization:	> 25 dB
3dB Beamwidth typ. (E-plane):	13° - 21°
3dB Beamwidth typ. (H-plane):	14° - 23°
Dimensions (L x W x H) in mm:	86 x 75 x 60
Weight:	0.3 kg
Fixation:	3/8", 1/4"
Use:	Radiated immunity tests Emission measurements

Measurements