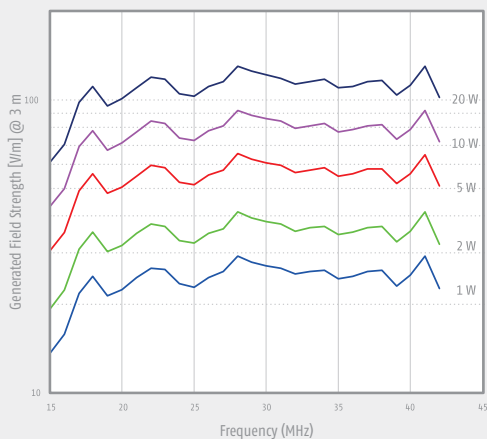
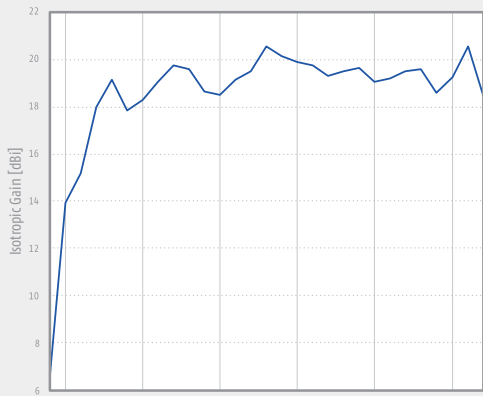
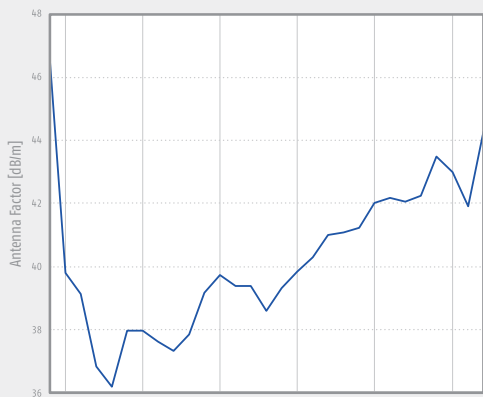


# BROADBAND HORN ANTENNA – HAX-40, 14 GHz – 40 GHz

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. 16 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

Frequency range	14 GHz – 40 GHz
Max input power	10 W (cont.) 25 W peak
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 rejection	> 25 dB
3 dB Beamwidth typ. (E-plane)	13° – 21°
3 dB Beamwidth typ. (H-plane)	14° – 23°
Dimensions (W x L x D) in mm:	75 x 86 x 60
Weight	0.3 kg
Fixation	3/8", 1/4"
Use	Radiated immunity tests Emission measurements