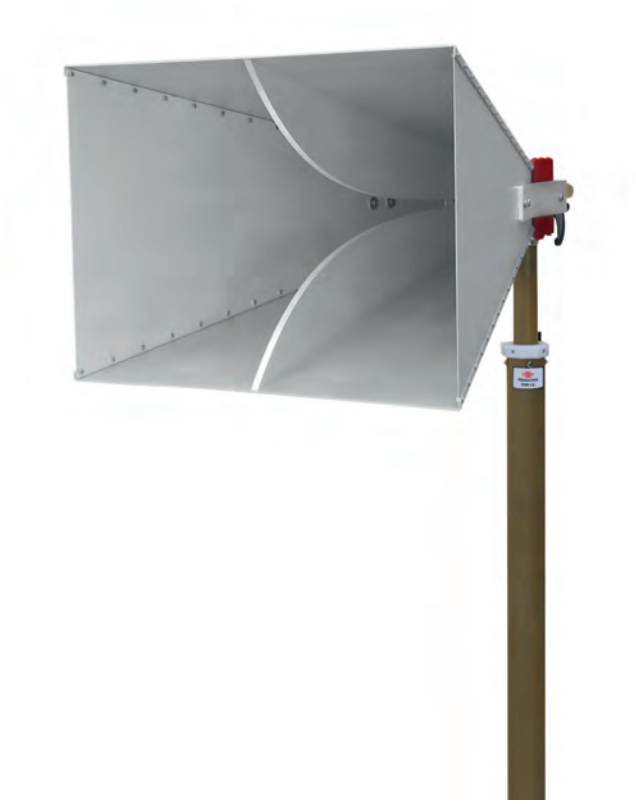
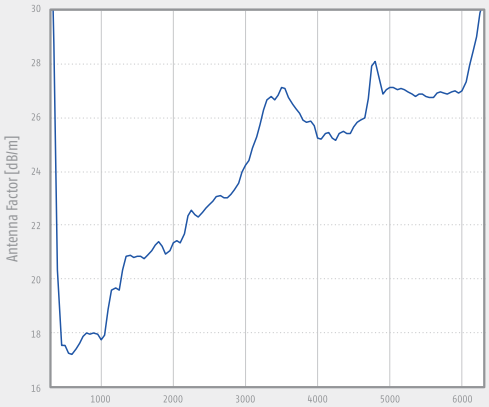
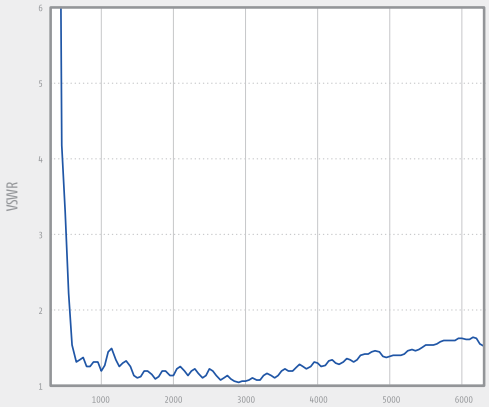
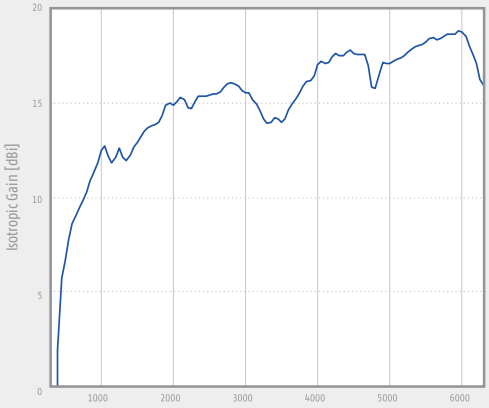
# BROADBAND HORN ANTENNA – **HAX-6, 500 MHz – 6 GHz**

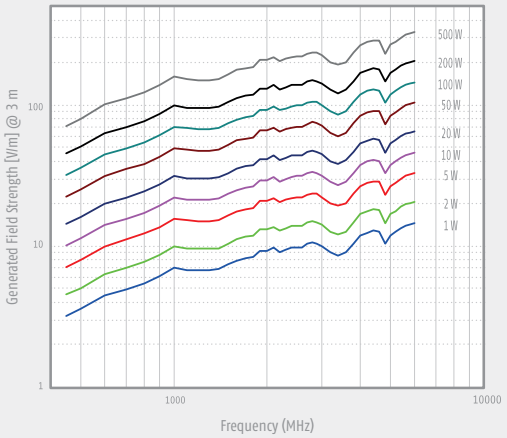
for immunity tests and emission measurements





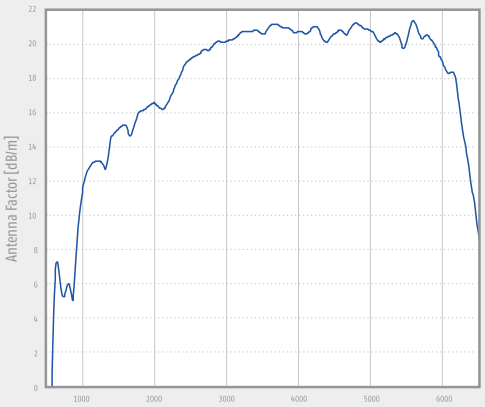

## Description

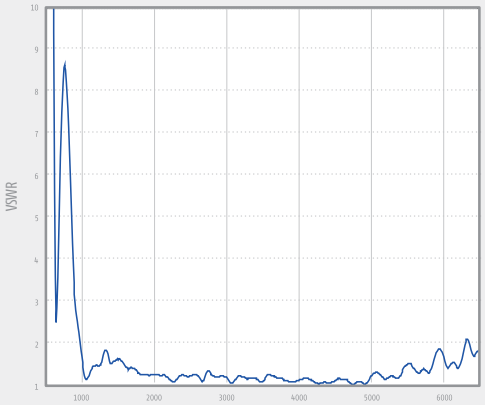
The horn antennas HAX offer a very low SWR in their nominal frequency range and a very broad bandwidth. The gain increases with frequency up to approx. 18 dBi. The increasing gain with frequency helps to compensate cable losses.

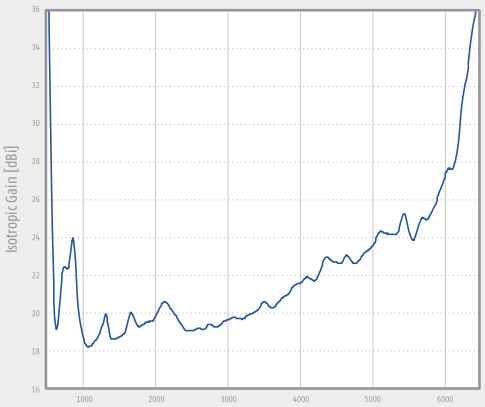
The HAX series is suitable for both, transmission and receiving applications. The maximum allowed input power is only limited by the female N-connector. The detailed manual of the calibrated test antennas includes gain, antenna factor, SWR and directional patterns. The antenna is mounted with the 22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

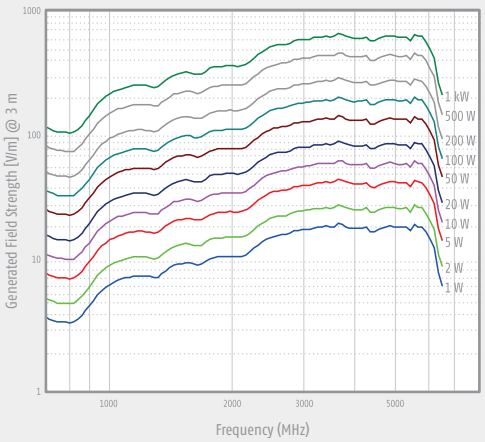
| **Technical specifications** | |
|---|---|
| Frequency range | 500 MHz - 6 GHz |
| Max input power | limited only by N-connector |
| Connection | type N female |
| Gain | 6 ... 18 dBi |
| Antenna factor | 19 ... 29 dB/m |
| Standing wave ratio SWR typ.: | < 2 |
| Dimensions (W x L x D) in mm: | 424 x 314 x 820 |
| Weight | 4.1 kg |
| Fixation | Ø 22mm mounting tube |
| Material | aluminium |
| Use | Raiated immunity tests<br>Emission measurements |

# BROADBAND HORN ANTENNA – **HAX-6-KFZ, 800 MHz – 6.2 GHz**




## Description

The broadband horn antenna HAX-6-Kfz is a linear polarized high gain antenna fort he frequency range 800 MHz up to 6.2 GHz. The gain increases from 11 dBi at 1 GHz up to more than 20 dBi at higher frequencies.

| Technical specifications | |
|---|---|
| Frequency range | 800 MHz - 6.2 GHz |
| Max input power (N connector female) | 1 kW @1 GHz |
| Max input power<br>(Option: 7/16 connector female) | 1.7 kW @1 GHz |
| Isotropic Gain | min 11 dBi (f > 1 GHz) |
| Antenna factor | see data on the left side |
| Nominal impedance: | 50 Ω |
| Standing wave ratio SWR max. | <2.3 (f > 1 GHz) |
| Standing wave ratio SWR typ. | 1.3 (f > 1 GHz) |
| Polarisation | linear |
| 3 dB Beamwidth typ. (E-plane) | 48° - 11° |
| 3 dB Beamwidth typ. (H-plane) | 48° - 12° |
| Dimensions (W x L x D) in mm: | 680 x 435 x 440 |
| Weight | 7.6 kg |
| Fixation | 3/8" + M12 |

# BROADBAND HORN ANTENNA – **HAX-18, 800 MHz – 18 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 | 800 MHz - 18 GHz |
| Connection | N-female |
| Isotropic Gain | 6 ... 18 dBi |
| Antenna factor | 24 ... 50 dB/m |
| Nominal impedance: | 50 Ω |
| SWR typical | ≈1.5 |
| Front to back ratio | > 25 dB (f > 1.3 GHz) |
| Cross polarization rejection | > 25 dB (1 GHz ... 18 GHz) |
| 3 dB Beamwidth typ. (E-plane) | 90°-10° |
| 3 dB Beamwidth typ. (H-plane) | 60°-10° |
| Dimensions (W x L x D) in mm: | 245 x 195 (408) x 142 |
| Weight | 1.3 kg |
| Fixation | Ø 22mm mounting tube |
| Use | Radiated immunity tests<br>Emission measurements |