

R&S®HK116E Biconical Antenna

20 MHz to 300 MHz

For radiated emission measurements

New



The R&S®HK116E is a biconical dipole antenna for linearly polarized waves.

The antenna features a wide frequency range, a radiation pattern virtually independent of frequency and low weight.

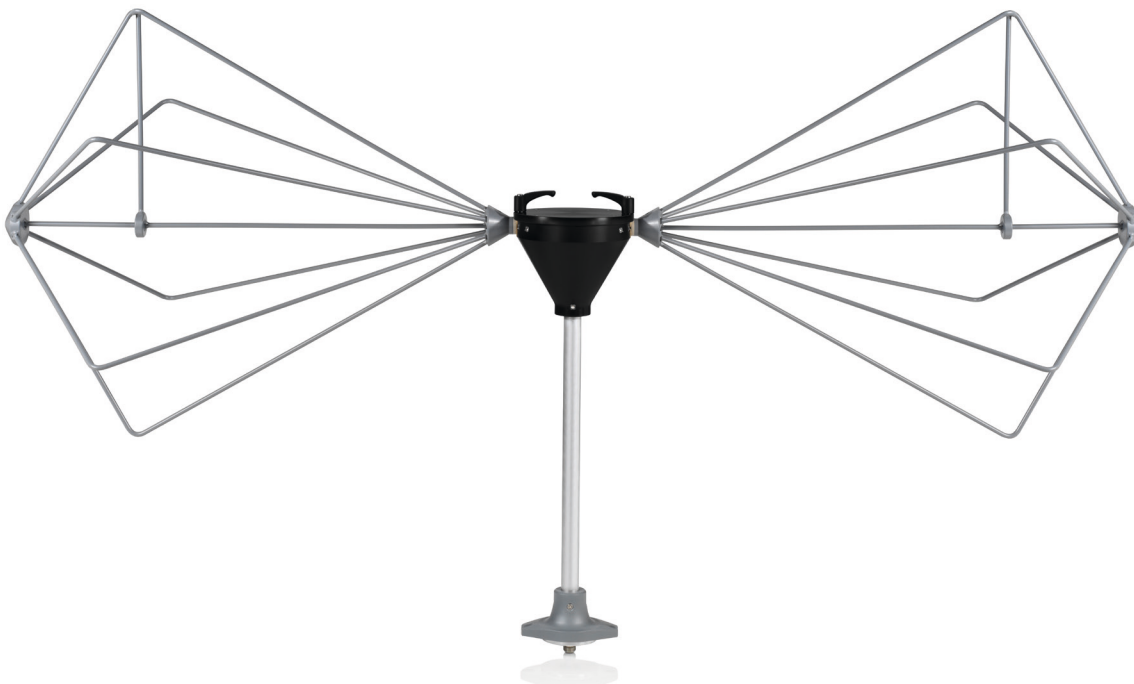
Each R&S®HK116E is individually calibrated in line with ANSI C63.5 and SAE ARP958 and is particularly suitable for radiated emission measurements in EMC test rooms.

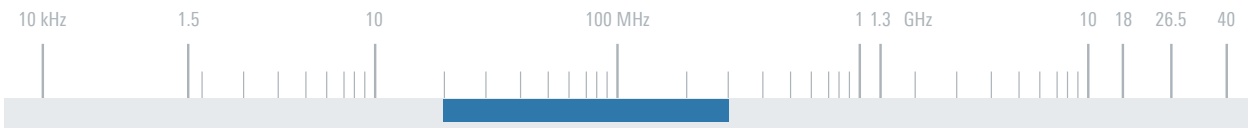
An accredited calibration of the free-space antenna factors is optionally available.

The mounting system of the biconical radiators ensures fixed orientation of the crossbars leading to high reproducibility of electrical performance.

Key facts

- Wide frequency range
- Low frequency dependence of the radiation pattern
- Individual calibration in line with ANSI C63.5 (free-space calibration) and SAE ARP958
- Compliant with requirements for balun imbalance and cross-polar performance given in CISPR 16-1-4 Ed. 3.0 (Sec. 4.5.4, 4.5.5)
- Dimensions in line with MIL-STD-416A
- Easy and quick way to mount/demount the biconical radiators





Specifications	
Frequency range	20 MHz to 300 MHz
Polarization	linear
Nominal impedance	50 Ω
VSWR	see diagram
Permissible input power	75 W CW
Cross-polarization	< -20 dB; typ. -25 dB
RF connector	N female

MTBF	>150 000 h
Operating temperature range	-40°C to +55°C
Storage temperature range	-40°C to +70°C
Dimensions (W × H × L)	approx. 0.53 m × 0.78 m × 1.38 m (21 in × 31 in × 54 in)
Weight	approx. 3 kg (7 lb)

Ordering information	Type	Order No.
Biconical Antenna	R&S®HK116E	4099.9000.02
Accredited Antenna Calibration (free-space antenna factors)	R&S®HK116E-DKD	4099.9123.02
Recommended extras		
Wooden Tripod	R&S®HZ-1	0837.2310.02
Adapter for use on R&S®HZ-1	R&S®KM011Z10	4100.1703.02

