



DPA 4000A COMPACT BICONICAL ANTENNA 200 to 1000 MHz



DPA 4000A

The dipole antenna DPA 4000A operates as a field strength measuring antenna in the frequency range 200 (30*) to 1000 MHz. The DPA 4000A is constructed so that it can be converted easily to a Reference Radiation Source in combination with the Reference Spectrum Generator RSG 1000 or RSG 3000. It provides reference measurements between open area test sites and alternative facilities as e.g. anechoic chambers and GTEM-cells.

It may be used for calibration of these alternative facilities as well as for quick checks of antennas and test set-ups. Further this combination can be used to measure the attenuation of absorbing material or the shielding effectiveness of screening materials.

*) with VSQ 1000/3002

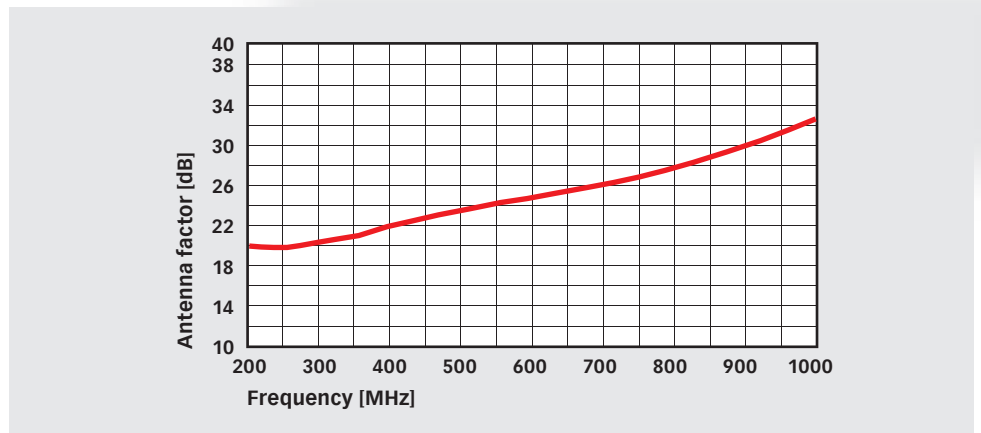
- Ideal for test site verification and in-situ measuring
- Can be combined with a comb generator as Reference Radiation Source
- Light weight and very compact

Technical specifications

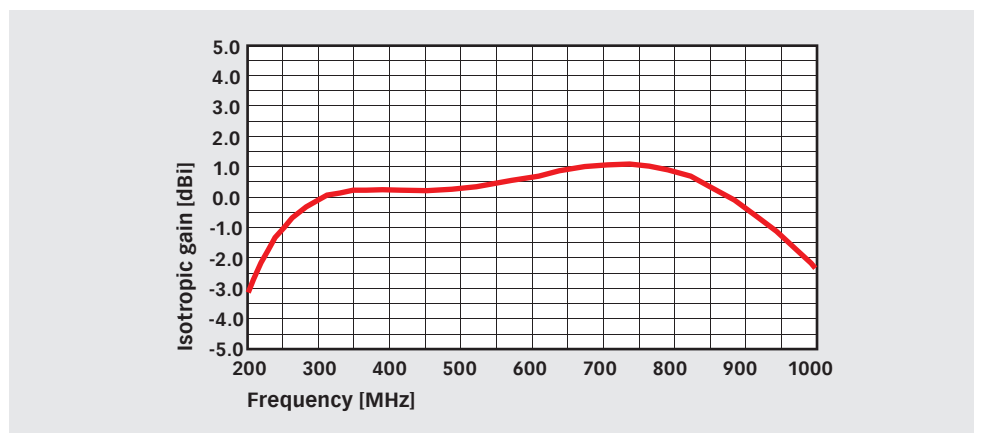
Antenna type:	biconical dipole antenna
Polarisation:	linear
Frequency range:	200 MHz to 1000 MHz
Antenna factor, typ.:	20 dB/m to 32 dB/m
Isotropic gain, typ.:	-3.5 dB to +1.5 dB
VSWR, typ.:	≤ 2.0 (350 MHz to 1000 MHz)
Symmetry, typ.:	≤ 0.2 dB
Cross-polar response:	> 20 dB
Output impedance:	50 Ω, nominal
Connector:	N female
Max. power (cw):	5 W
Size (L x W x H):	185 mm x 400 mm x 155 mm
Support length:	155 mm
Weight:	690 g
Recommended tripods:	BTP 6010 + BAA 6001 + CHA 9425A or BTP 6020A + BAA 6001
*) with VSQ 1000/3002	

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Typical antenna factor



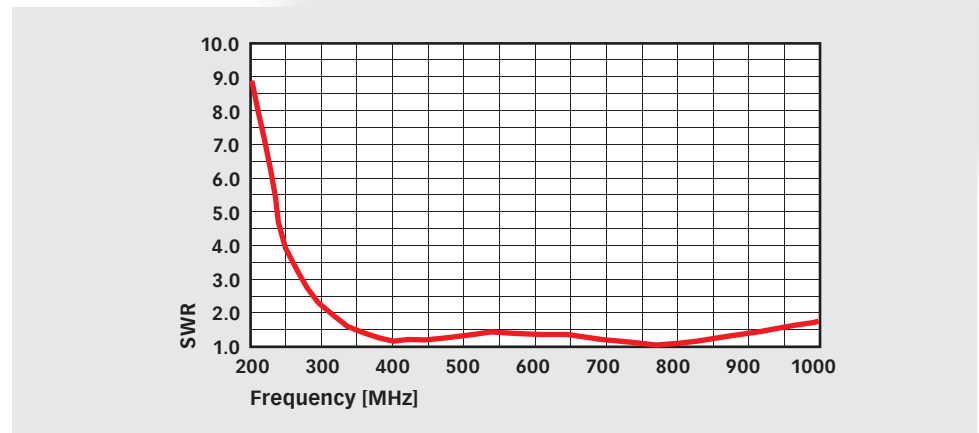
Typical gain





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Typical SWR



Delivery information

Part number	Description
234350	DPA 4000A Biconical antenna 200 MHz - 1 GHz
97-244570	Ant Cert-TC Traceable calibration (ISO17025), order only with the antenna, free space calibration (horizontal), other calibrations on request
234304	BTP 6010 Tripod for DPA 3000/ 4000 included in VSQ 1000/ 300x
244579	BAA 6001 Dipol antenna tube for DPA 3000/ 4000, included in VSQ 300x
348-801	CHA 9425A Enables antennas with 22mm tube to fit on to masts but bolts onto the top of the boom. This does alter the position of the antenna when it is re-polarised but allows easy antenna changes or 1/4 " tripod thread.
248504	BTP 6020A-0880 EMC Tripod with tube 880 mm and mounting head for antennas with 22 mm tube
248505	BTP 6020A-0680 EMC Tripod with tube 680 mm and mounting head for antennas with 22 mm tube

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Delivery information (continued)

Part number	Description
248523	BTP 6020A-1370 EMC Tripod with tube 1370 mm and mounting head for antennas with 22 mm tube
234301	VSQ 1000 Reference radiation source 30 MHz - 1 GHz (RSG 1000 + DPA 4000 + Tripod)
97-234301	VSQ 1000-GTEM-TC Traceable calibration (ISO17025) of VSQ 1000 in a GTEM cell, order only with the device
97-234302	VSQ 1000-SAC-TC Traceable calibration (ISO17025) of VSQ 1000 or VSQ 3002 up to 1 GHz in a SAC, 3 m distance, 10 MHz step, order only with the device
244525	VSQ 3000 Reference radiation source 800 MHz - 3 GHz (RSG 3000 + DPA 3000 + Tripod + Suitcase)
244527	VSQ 3002 Reference radiation source 30 MHz - 3 GHz (RSG 3000 + DPA 4000 + DPA 3000 + Tripod + Suitcase)
97-244525	VSQ 3000- FAR-TC Traceable calibration (ISO17025) of VSQ 3000, 1 GHz -3 GHz, 10 MHz step, FAR, 3 m distance
97-244526	VSQ 3002-GTEM-FAR-TC Traceable calibration (ISO17025) of VSQ 3002, 30 MHz - 1 GHz GTEM, 1 - 3 GHz FAR, 3 m distance
97-244527	VSQ 3002-SAC-FAR-TC Traceable calibration (ISO17025) of VSQ 3002, 30 MHz - 1 GHz SAC, 1 - 3 GHz FAR, 3 m distance