



PCD ANTENNA

PRECISION CONICAL DIPOLE ANTENNA

ANTENNAS

The PCD antennas are precision dipole antennas with conically shaped radiation elements. This construction enables the best dipole-like radiation pattern over a very large bandwidth up to 3 GHz. The precision balun with defined impedances guarantees best antenna symmetry, excellent VSWR and low coupling effects.

PCD 3100: 30 MHz - 1 GHz

PCD 8250: 80 MHz - 3 GHz

APPLICATIONS

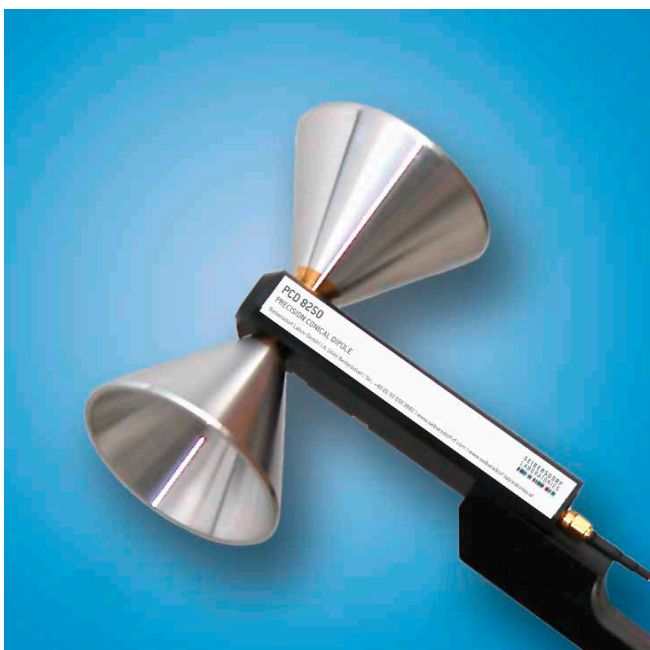
- Fully anechoic room (FAR) validation according to CISPR 16-1-4 requirements
- ALSE validation according to CISPR25
- Table influence measurements according to CISPR 16-1-4
- Exposure evaluation of base stations
- RF-radiation safety measurements
- Research work

ACCURATE MEASUREMENTS

- Accredited calibration of antenna according to ISO/EN 17025 requirements available
- Check of proper antenna function with RefRad and antenna coupler prior to measurements
- Balun design reduces coupling effects and guarantees performance stability which is important for measurements near conducting materials and close to persons

AVAILABLE OPTIONS

- Accredited individual free space calibration
- Accredited calibration for site validation measurements according to CISPR 16-1-4 (FAR validation)
- Various antenna holders
- Radiation elements for 30 MHz to 1 GHz for the PCD 8250;
- Ferrite beaded cable in different lengths



PCD 8250 antenna



PCD 3100 antenna

PCD ANTENNA

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TECHNICAL DATA PCD

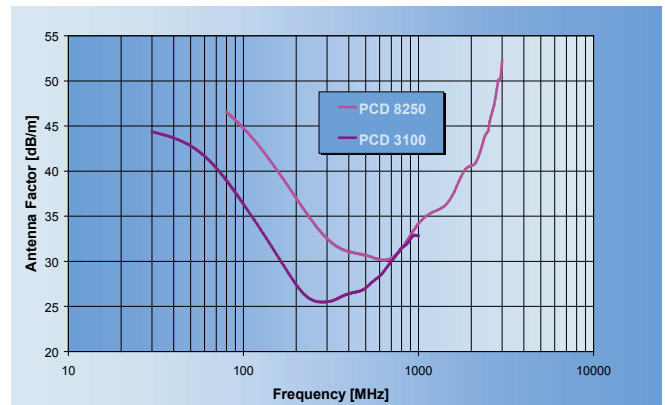
Max. RX Field Strength:	100 V/m
Max. TX Input Power:	20 dBm
Sensitivity:	better than 1mV/m
Operating Temperature:	5°C - 40°C
Connector Type:	SMA female

TECHNICAL DATA PCD 3100

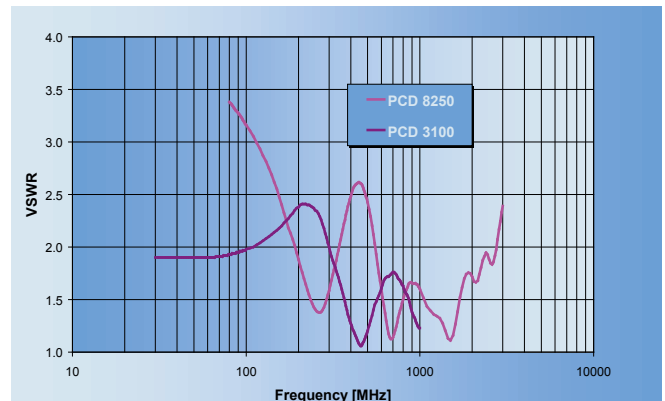
Frequency Range:	30 MHz - 1 GHz
Antenna Width:	21 cm
Support Length:	13 cm

TECHNICAL DATA PCD 8250

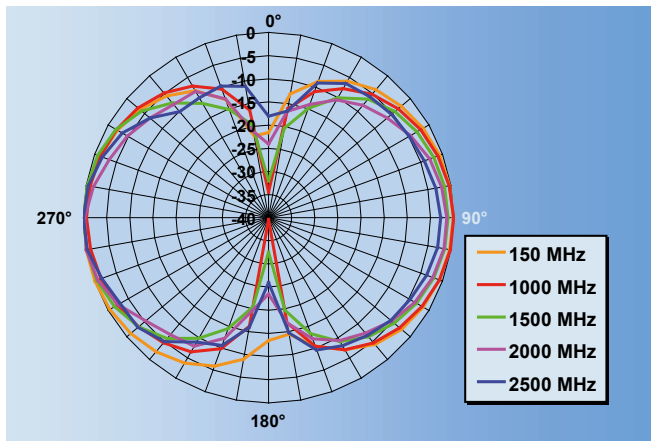
Frequency Range:	80 MHz - 3 GHz
Antenna Width:	13 cm
Support Length:	13 cm



Typical antenna factor of PCD antennas



Typical VSWR of PCD antennas



Typical radiation pattern of PCD 8250 antenna (E-plane)

Presented by:

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