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 ÖKD 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

- ÖKD accredited individual free space calibration
- ÖKD 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

Distributed by: Reliant EMC LLC, 3311 Lewis Ave, Signal Hill CA 90755, 408-916-5750, www.reliantemc.com

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TECHNICAL DATA PCD

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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

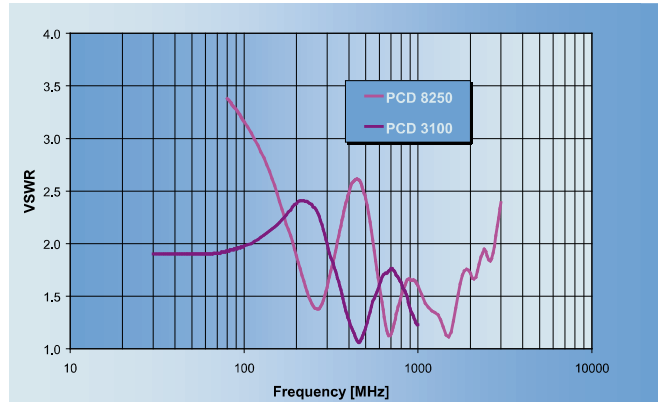|	
Frequency Range:	30 MHz - 1 GHz
Antenna Width:	21 cm
Support Length:	13 cm

TECHNICAL DATA PCD 8250

Frequency Range:	80 MHz - 3 GHz
Antenna Width:	13 cm
Support Length:	13 cm
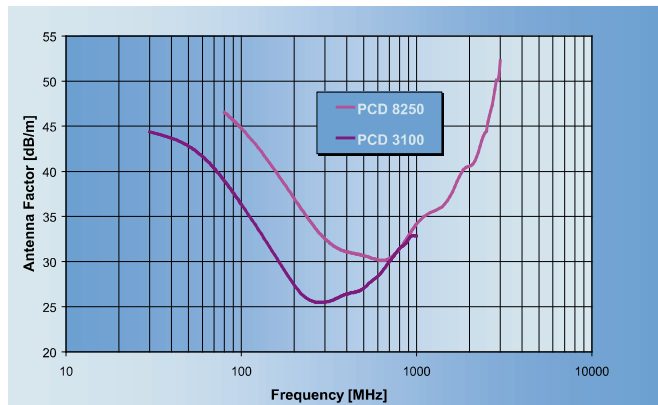
Typical antenna factor of PCD antennas

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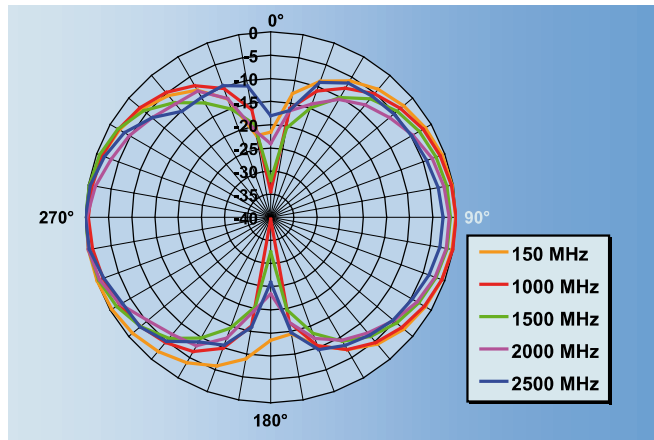
Typical radiation pattern of PCD 8250 antenna (E-plane)