



PRD ANTENNA

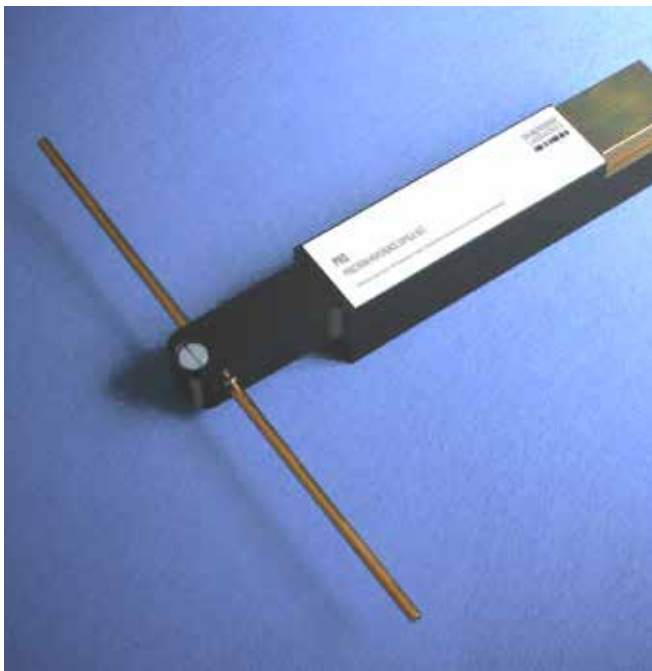
PRECISION REFERENCE DIPOLE

PRIMARY STANDARD FOR

- Evaluation of reference and antenna calibration sites (CISPR 16-1-5)
- Site validation (CISPR 16-1-4, ANSI C63.4, VCCI)
- antenna calibration (ANSI C 63.5)
- EMC compliance testing and field-strength measurements

PRD SET INCLUDES

- 2 baluns, connector SMA female;
- 2 mounting bases 30 - 250 MHz;
- 2 mounting bases 300 - 1000 MHz;
- antenna elements (4 of each) for the frequencies 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 120, 125, 140, 150, 160, 175, 180, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000 MHz;
- balun thru calibration fixture;
- Windows based software **ANTENNA** for numerical calculations of site attenuation and antenna factor in free-space and above groundplane for any geometric setup of the dipoles;
- table of antenna factors at the resonance frequencies;
- dipole models for simulation with **ANTENNA**;
- instructions;
- transport case;



PCD: Mounting base 300-1000 MHz with balun and 900 MHz dipole elements

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TECHNICAL DATA

Frequency Range:	30 MHz - 1 GHz
Max. Input Power:	20 dBm
Balun Unbalance:	better than $\pm 0.2^\circ$ phase and ± 0.2 dB amplitude
Antenna Factor Uncertainty:	better than ± 0.15 dB at f_{res} ($k=2$, for 95% confidence)
Connector Type:	SMA female

The verification of the PRD performance is described in the paper „Primary Standards for Antenna Factor Calibration in the Frequency Range of 30 to 1000 MHz“, IEEE Trans. Instrumentation Measur., vol. 46, no.2, April 1997



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