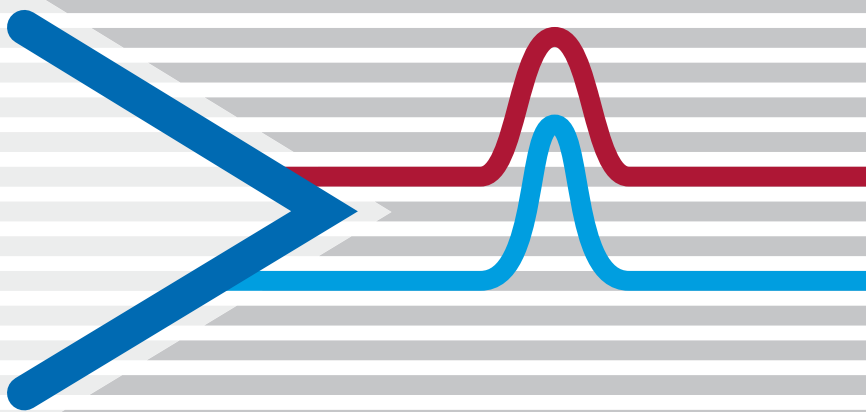


Antennas

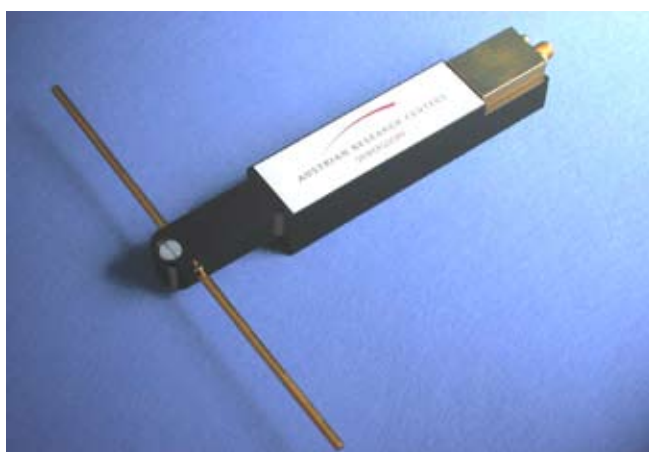
PRD



PRECISION REFERENCE DIPOLE PRD

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 C63.5)
- ✓ EMC compliance testing and field-strength measurements



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

Technical Data:

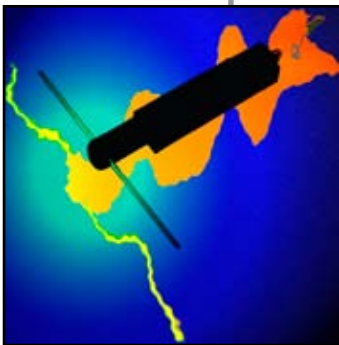
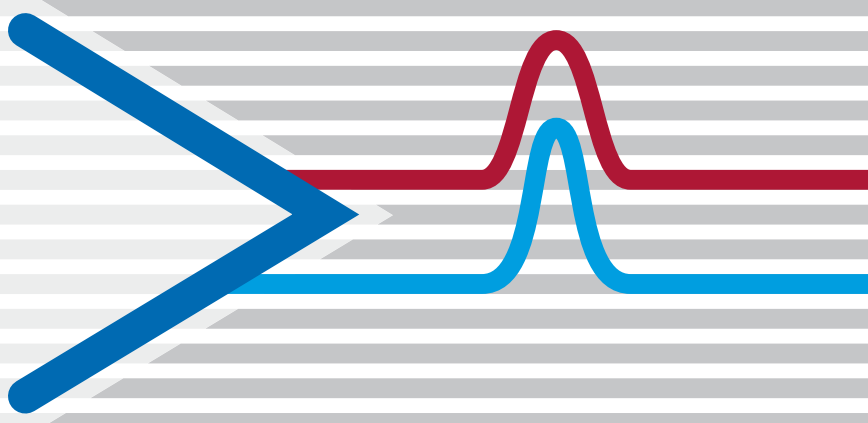
Frequency range	30 MHz - 1 GHz
Max. input power	20 dBm
Balun unbalance	better than $\pm 2^\circ$ phase and ± 0.2 dB amplitude
Antenna factor uncertainty	better than ± 0.15 dB at f_{res} (k=2, for 95% confidence)
Connector type	SMA female

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;

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

Antennas PRD



Presented by:

Contact

Liberty Labs, Inc.
1346 Yellowwood Road
Kimballton, IA 51543
PH: 712-773-2199
FAX: 712-773-2299
E-mail: Sales@liberty-labs.com



In cooperation with Austrian Research Centers GmbH
www.seibersdorf-rf.com

Contact

Austrian Research Centers GmbH - ARC
smart systems Division - Radio Frequency Engineering
A-2444 Seibersdorf
E-mail: itr@arcs.ac.at, Web: www.seibersdorf-rf.com

DI (FH) Patrica Jasek
Phone: +43 (0) 50550 - 2842, Fax: - 2813