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## VD Series High Voltage Probes 60 to 300 kV DC



VD series high voltage probes are floor standing high voltage probes which are designed for rugged day in - day out use. They are used in a wide range of applications from radar to X-ray system quality control to advanced particle accelerator applications. Resistors with an extremely low voltage coefficient of resistance are used, and all capacitors are temperature, frequency, and voltage stabilized for the best possible performance. The probes all have field defining toroids as a standard item in order to minimize the proximity effect (stray capacitance) and maximize the reproducibility of the measurement. The high and low frequency calibrations are carefully matched before shipment. Very high frequency cable effects are also carefully compensated so accurate measurements can be made for short pulses. No adjustments are necessary once the probes have been factory calibrated.

| Model Number             | VD-60    | VD-100   | VD-150   | VD-200   | VD-300   | VD-400   |
|--------------------------|----------|----------|----------|----------|----------|----------|
| Max DC/Pulsed V (kV)     | 60/105   | 100/160  | 150/230  | 200/300  | 300/420  | 400/550  |
| Max Frequency (Mhz.)     | 20       | 20       | 20       | 16       | 12       | 8        |
| Cable Length (ft.)       | 30       | 30       | 30       | 30       | 30       | 30       |
| DC accuracy              | <0.1 %   | <0.1 %   | <0.1%    | <0.1%    | <0.1 %   | <0.1%    |
| 10 Hz. - 1 Mhz. Accuracy | 1 %      | 1 %      | 1 %      | 2%       | 2.5 %    | 3 %      |
| >1 Mhz Accuracy          | 3 %      | 3 %      | 3 %      | 3%       | 4 %      | 4%       |
| Resistance (Megohms)     | 800      | 1600     | 2000     | 2800     | 4500     | 7000     |
| Height (inches/cm.)      | 20/50    | 24/60    | 30/75    | 40/99    | 54/135   | 72/180   |
| Diameter (in/cm.)        | 11/28    | 11/28    | 12/29    | 16/40    | 24/61    | 24/61    |
| Capacitance (approx. pf) | 27       | 25       | 27       | 24       | 20       | 16       |
| Base Diameter(in/cm.)    | 10/25    | 10/25    | 12/30    | 20/50    | 30/76*   | 30/76*   |
| Standard Divider Ratio   | 10,000:1 | 10,000:1 | 10,000:1 | 10,000:1 | 10,000:1 | 10,000:1 |

\*Square Base

Outline drawings are available at <http://www.highvoltageprobes.com/downloads>