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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-500
Max DC/Pulsed V (kV)	500/550
Max Frequency (Mhz.)	8
Nom Pulse Risetime(ns)	40
Cable Length (ft.)	30
DC accuracy	<0.2%
10 Hz. - 1 Mhz. Accuracy	3 %
>1 Mhz Accuracy	5.00%
Resistance (Megohms)	7000
Height (inches/cm.)	72/180
Diameter (in/cm.)	24/61
Capacitance (approx. pf)	16
Base Diameter(in/cm.)	30/76*
Standard Divider Ratio	10,000:1

\*Square Base

Calibrations offered:

Basic traceable calibration: Resistor linearity is measured on a batch basis. Once verified, the 800 V calibration is sufficiently accurate for all purposes.

35 kV traceable calibration: Data is offered which will document the linearity

100 % resistor linearity check – all resistor linearities measured individually and traceably over the full range (effectively from 0 – 700 kV)

National Standards Lab Verification – Probe is sent to a national standards lab before delivery.