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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	18	15	12	8
Nom Pulse Risetime(ns)	15	15	20	20	25	40
Cable Length (ft.)	30	30	30	30	30	30
DC accuracy	<0.1 %	<0.1 %	<0.1%	<0.1%	<0.2 %	<0.2%
2 Hz - 1 Mhz. Accuracy	1 %	1 %	1 %	2%	3 %	4 %
>1 Mhz Accuracy	3 %	3 %	3 %	3%	4 %	4%
Resistance (Megohms)	800	1500	2000	2800	2250	3500
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>.

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