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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 ranging from television tube manufacturing to radar 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 even when the cable length exceeds the pulse duration. No adjustments are necessary once the probes have been factory calibrated.

Model Number	VD-60	VD-100	VD-150	VD-200	VD-300
Max DC/Pulsed V (kV)	60/120	100/170	150/250	200/300	300/400
Max Frequency (Mhz.)	20	20	20	20	20
Cable Length (ft.)	30	30	30	30	30
DC accuracy	<0.1 %	<0.1 %	<0.1%	<0.1%	<0.1 %
10 Hz. - 1 Mhz. Accuracy	1 %	1 %	1 %	1%	1 %
1 Mhz. - 20 Mhz. Accuracy	3 %	3 %	3 %	3%	3 %
Resistance (Megohms)	800	1600	2000	2700	47000
Height (inches/cm.)	19/48	26/67	30/74	40/99	57/137
Diameter (in/cm.)	12/29	12/29	12/29	16/40	24/61
Capacitance (approx. pf)	35	32	27	24	20
Base Diameter(in/cm.)	10/25	10/25	12/30	14/35	24/61
Standard Divider Ratio	10,000:1	10,000:1	10,000:1	10,000:1	10,000:1



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PVM Series Portable High Voltage Probes to 60 kV DC



PVM series high voltage probes are designed for general use, and for exceptional high frequency response. The probes have applications ranging from automotive ignition to excimer laser system measurement to EMI measurement. They are factory calibrated, and they do not require adjustment. An optional switch which can compensate for various measurement instruments such as 10 Megohm meters and 1 megohm oscilloscopes is available. These units are intended for a wide range of applications where portability and ease of use are essential.

Model Number	PVM-1	PVM-2	PVM-3	PVM-4	PVM-5	PVM-6	PVM-11 (PVM-10)	PVM-12
Max DC/Pulsed V (kV)	40/60	40/60	40/60	40/60	60/100	60/100	10/12	25/30
Max Frequency (Mhz.)	80	80	40	110	80	80	90	90
Cable Impedance (ohms)	50	50	50	93	50	93	93	50
DC - 2 Hz.accuracy	<0.1%	<0.1 %	<0.2 %	<0.1 %	<0.1%	<0.1%	<0.1 %	<0.1 %
2 Hz. - 200 Hz. accuracy	<1 %	<1. %	<1. %	<1. %	<1.5%	<1.5%	<1.5 %	<1.5 %
200 Hz. - 5 Mhz. accuracy	<1.5%	<1.5%	<1.5%	<1.5%	<2 %	<2%	<2. %	<2. %
> 5 Mhz. Accuracy	<3%	<3%	<3%	<5%	<4%	<4%	<4%	<4%
Input R/C (Megohm/pf)	400/13	400/13	400/10	400/10	400/12	400/12	50/7	150/7
Cable Length (ft./m)	15/4.5	30/9	100/30	15/4.5	15/4.5	30/9	15/4.5	15/4.5
Standard Divider Ratio	1000:1	1000:1	10,000:1	1000:1	1,000:1	1,000:1	1,000:1 (100:1)	1,000:1
Length (inches/cm.)	15/38	15/38	15/38	15/38	19/45	19/45	7/18	9/23