

Зонды высокого напряжения РVM

Технические характеристики

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High Voltage Probes

High voltage measurements have a variety of different requirements, and our PVM series and VD series probes are designed for most of these requirements. The PVM probes are designed for wide bandwidth and ease of portability where a variety of measurements must be made. The VD series probes are designed for use at higher voltage ranges, and where physical stability is required.



The design of the probes is unique. The probe comes fully adjusted without any requirement to further adjust the probe in the field. Stray capacitances internal to the probe are factory calibrated. Stray capacitances due to proximity effects are minimized by the unique conductor placement.

Low temperature and voltage coefficient resistors and capacitors are used throughout the probe to provide maximum measurement accuracy. The probe has a rugged nylon housing, and it is filled with dielectric oil for maximum high voltage stability.

Our PVM Series probes are available with either 1000:1 or 2000:1 calibration factors at the time of order.

Voltage Probe Specifications

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. In general the probes are for use with 1 Megohm oscilloscopes, but we also offer an optional switch which can compensate for various measurement instruments such as 10 Megohm meters as well. 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-7	PVM-100	PVM-11	PVM-12
Max DC/Pulsed V (kV)	40/60	40/60	40/60	40/60	60/100	60/100	60/100	100/150	10/12	25/30
Max F Mhz 1k:1 Max F Mhz 2k:1	120 90	110 80	25 at 10k:1	140 100	120 90	110 80	140 100	100 100	30	110
Cable (ohms)	50	75	50 or 75	50 or 75	50	75	50 or 75	50	50	50
DC – 2 Hz.accuracy(%)	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	0.15	<0.15	<0.15
2 Hz. – 200 Hz. accuracy(%)	<1	<1	<2	<1.5	<1	<1	<1.5	<1.5	<1.5	<1.5
200 Hz. – 5 Mhz. accuracy	<1.5%	<1.5%	<3%	<2%	<1.5%	<1.5%	<2%	2%	<2.0%	<2.0%
> 5 Mhz. Accuracy	<5%	<6%*	<4%	<5%	<4%	<5%*	<7%	7%	<4%	<4%
Input R/C (Megohm/pf)	400/13	400/13	400/10	400/8	400/12	400/12	400/8	600/15	100(50)/15	300/7
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	15/4.5	15/4.5
Standard Divider Ratio	1000:1	1000:1	10,000:1	1000:1	1000:1	1000:1	1000:1	2000:1	1000:1	1000:1
Length (inches/cm.)	17/44	17/44	17/44	17/44	19/47	19/47	19/47	23/57	7/18	9/23

Add -2 to any PVM-1 – PVM-6 or PVM-12 part number for 2000:1 ratio at no extra cost. Bandwidth considerations must be taken into account for the highest frequencies.

HV Probes Optimized for 13.56 Mhz



PVM12HF

Measurements

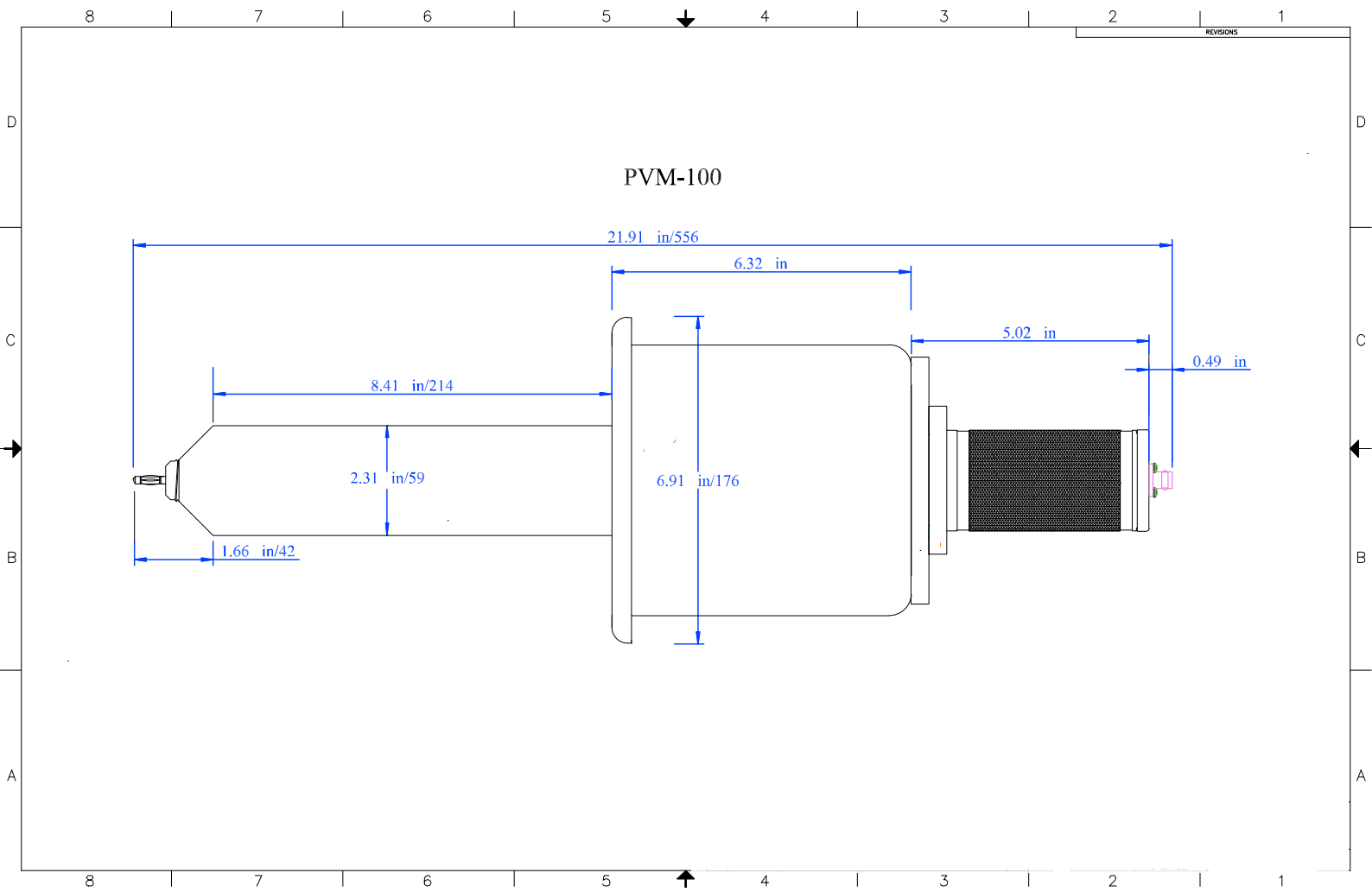
The PVM-12HF and PVM-25Air are probes optimized for measurements of 13.56 Mhz high voltage systems. These systems are often found in semiconductor plants and in other materials' processing applications. Probes are often subject to inaccuracies due to resonances which can easily lead to 5

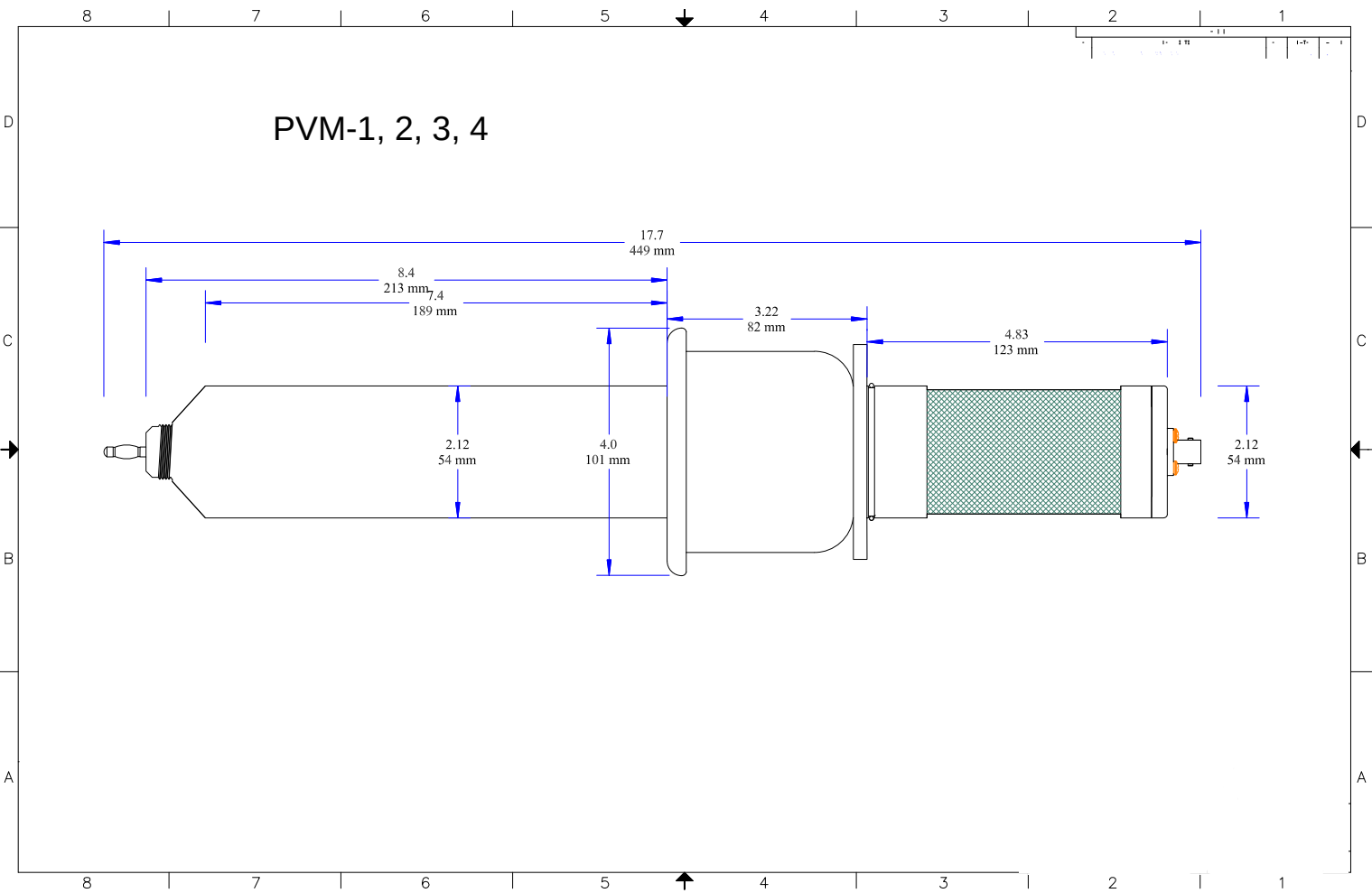
– 10 % errors in other probes. The HF series are calibrated to avoid resonances at 13.56 Mhz.

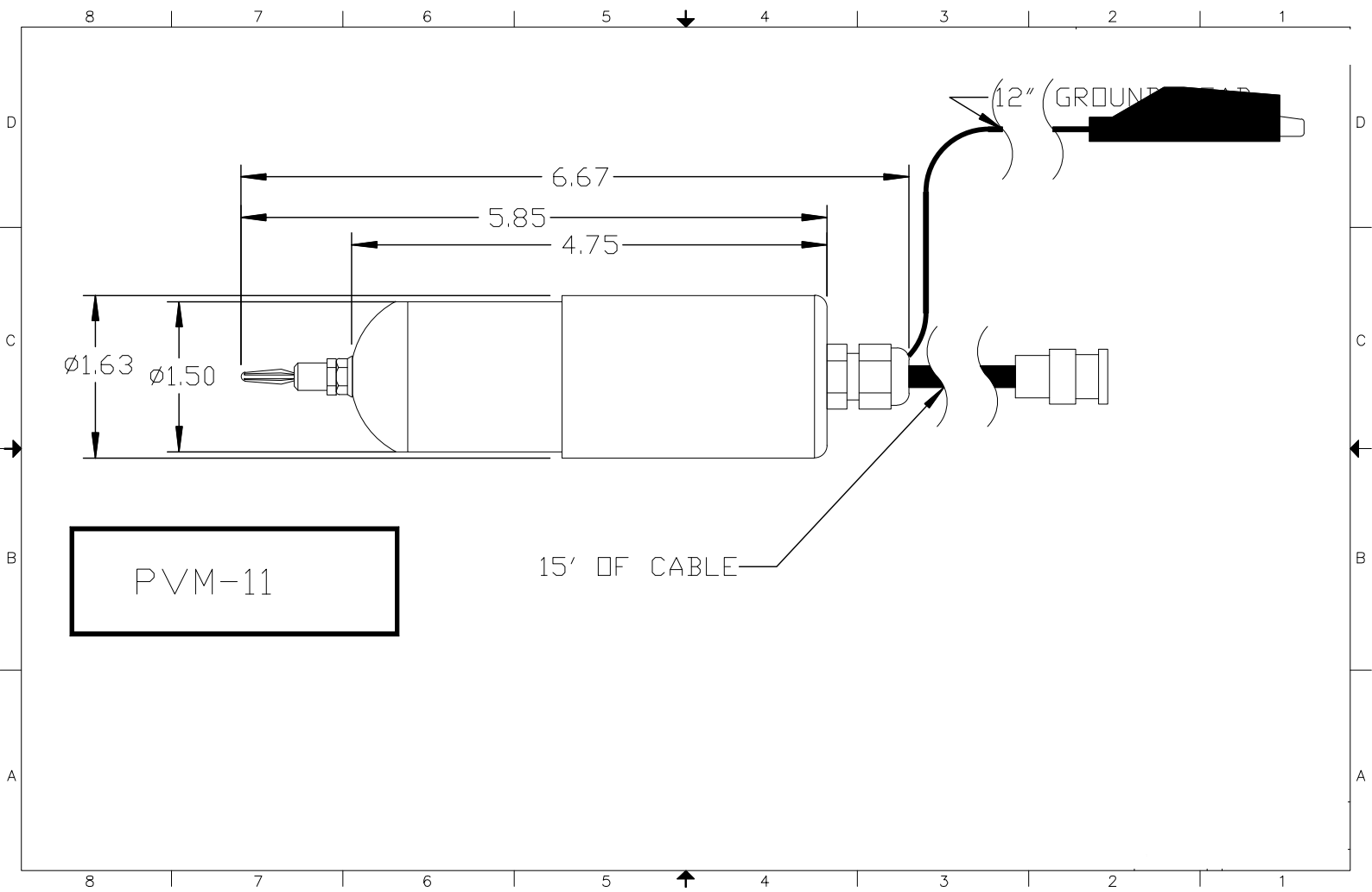
The 12HF probe is capacitive and the 25air is a full capability resistor-capacitor probe with an air capacitance. Users are reminded that probes such as these rely on close coupling between the probe and the voltage application point because the wavelength and inductance of the voltage source both matter at these frequencies for physical reasons which are independent of manufacture or manufacturer. These are oscilloscope probes, and use with any other device is not guaranteed. The bodies of both the PVM-12HF and the PVM-25Air are made from PTFE for microwave compatibility.



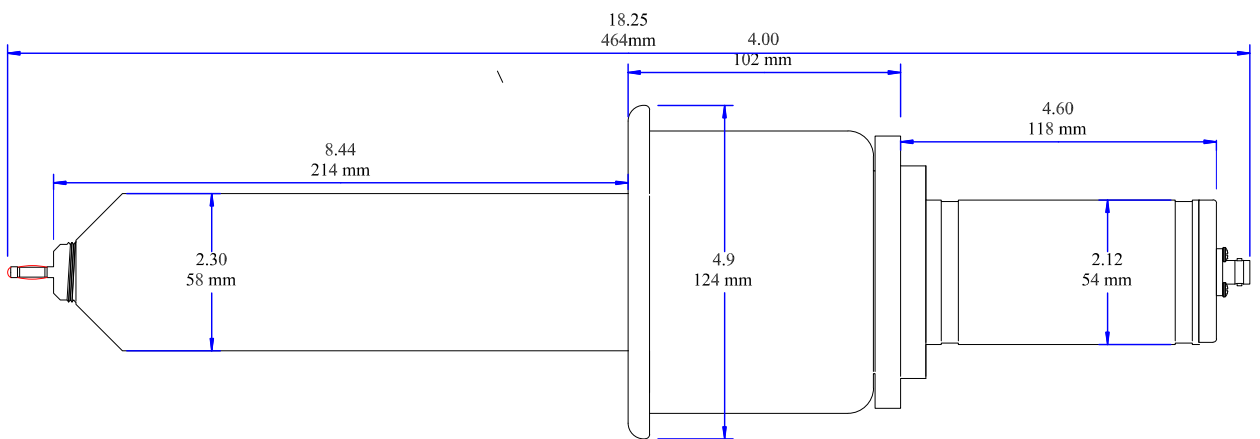
Model Number	PVM-12HF	PVM-25Air	
Peak V (kV)	7 kV	25	
DC capability	NO	Yes – 0.2 % accuracy	
Max Frequency (Mhz.)	28	50	
Cable Impedance (ohms)	50	75	
13.56 Mhz Accuracy	1%	3%	
100 kHz Accuracy	3%	3%	
Scope Termination	1 Meg	1 Meg	
Input C (pf)	8 pf	12 pf	
Cable Length (ft./m)	10 ft/3 m	10 ft/3 m	
Standard Divider Ratio	1000:1	1000:1	
Length (inches/cm.)	8"/20 cm (add 5 cm for strain relief)	12.5"/31 cm	



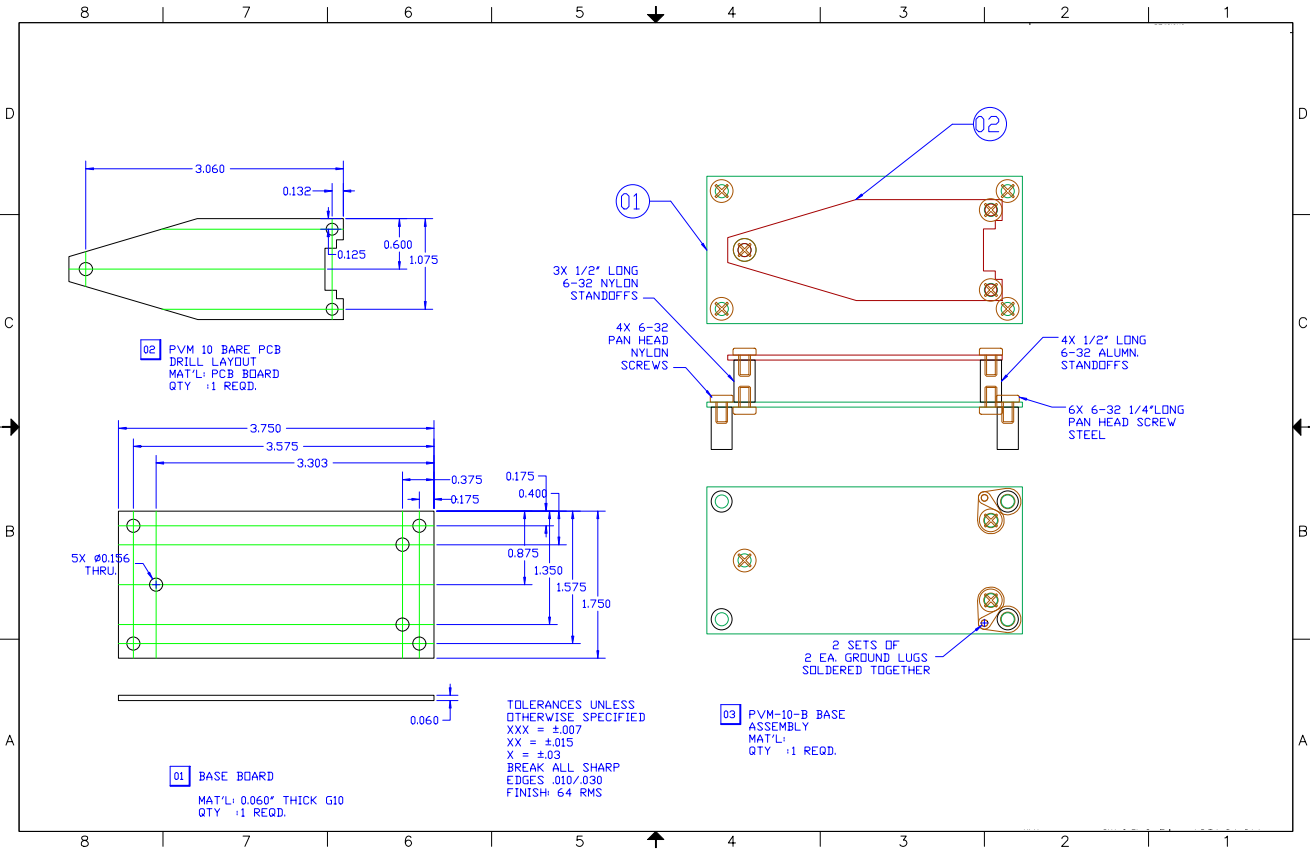




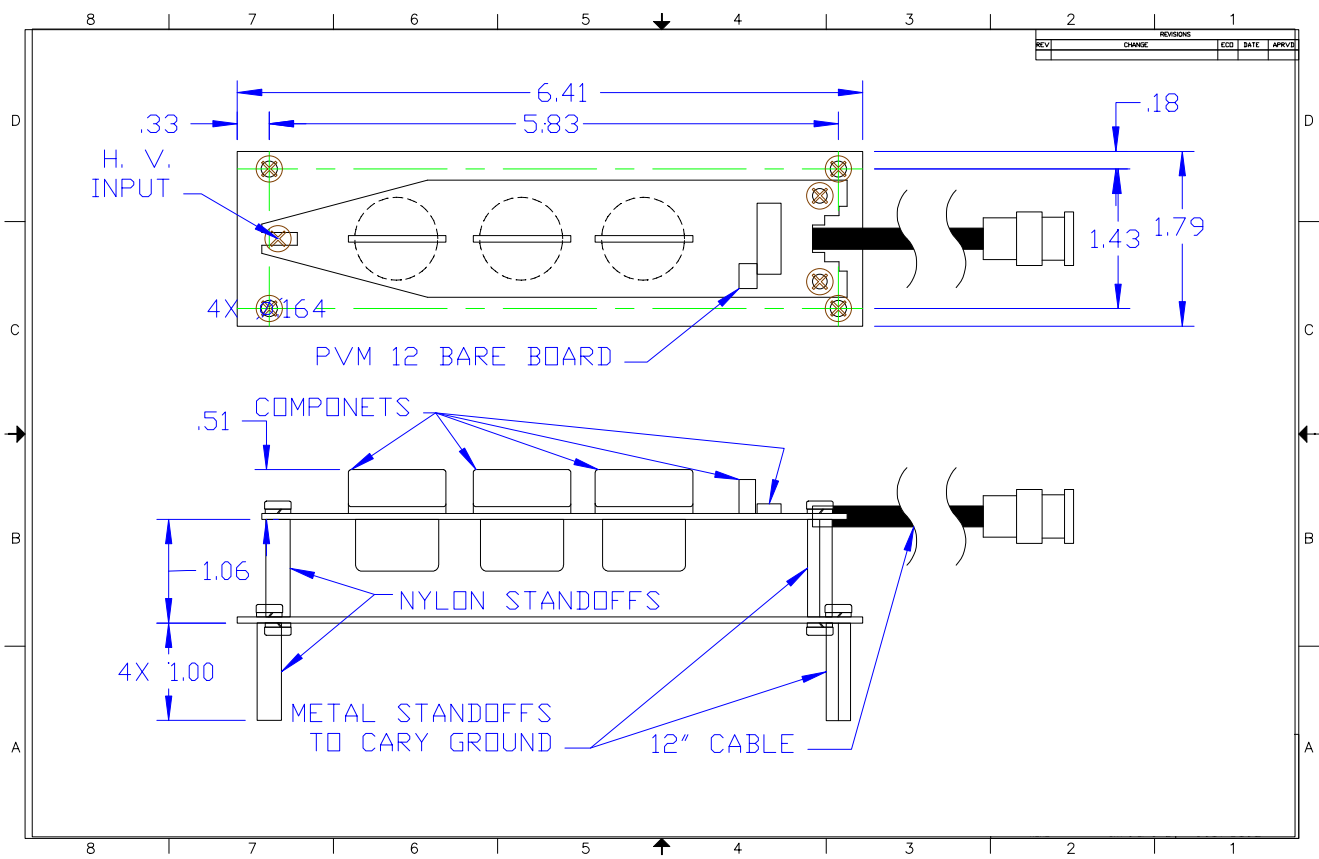
PVM-5



PVM-10-B



PVM-12



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