

**Proven
Reliability**

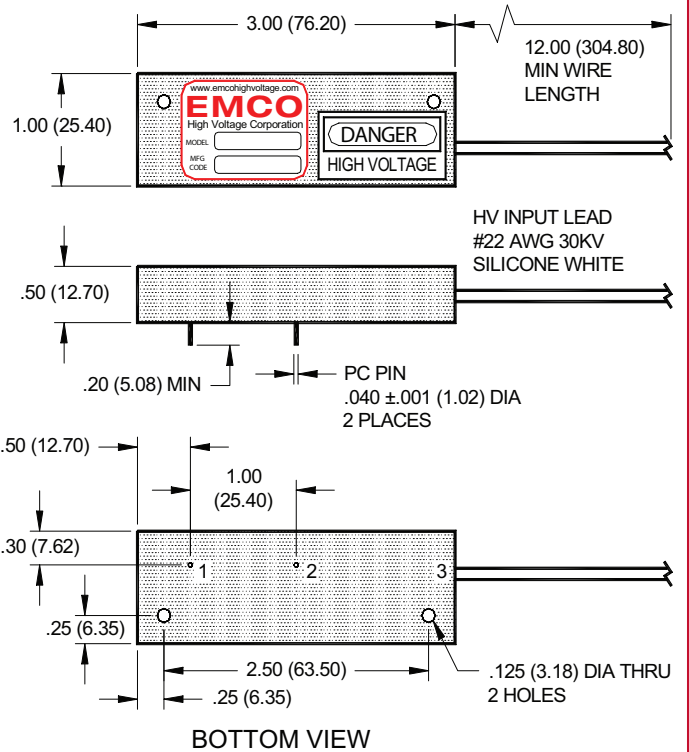
Model V1G

MINIATURE HIGH VOLTAGE DIVIDER

Extend the range of your dmm to 25kV!



MECHANICAL SPECIFICATIONS



OUTLINE DRAWING

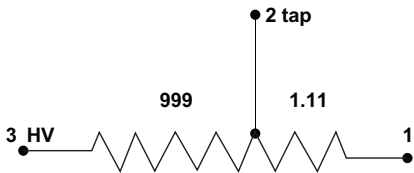
Dimensions are in Inches
Dimensional Tolerances: $\pm .03$ (.76 mm)
(Metric Equivalents in Parentheses)

PIN#	FUNCTION
1	Ground
2	Output
3	HV Input

PRODUCT DESCRIPTION

For laboratory measurement, system test point, or control loop feedback, our precision, low drift, high voltage divider provides a low voltage output from voltages as high as 25,000 VDC. The 1000:1 divider is internally compensated for your digital multimeter's 10 meg ohm input impedance. Ratio tolerance is 1% and temperature drift is a low 50 PPM. This divider provides a low cost solution to high voltage measurement without the expense and bulk of a probe, and without the danger of an exposed resistor. Using our high voltage encapsulation techniques, the divider is protected from the problems that occur when high voltage is exposed to dust and moisture. PC pins and mounting holes make this module ideal for PCB mounting. The high voltage connection is made through a 30 kV silicone wire.

SCHEMATIC DIAGRAM



ELECTRICAL SPECIFICATIONS

PARAMETER	VALUE
VOLTAGE RANGE	1,000 to 25,000 VDC
RATIO	1000:1 into 10 M Ω
RATIO TOLERANCE	<1%
RATIO TEMP COEFFICIENT	<75 ppm/ $^{\circ}$ C
TOTAL RESISTANCE	1,000 M Ω
OPERATING TEMP	-10 $^{\circ}$ to +60 $^{\circ}$ C ¹ (CASE)

* Notes:

- Proper thermal management techniques are required to maintain safe case temperature at maximum power output.

PHYSICAL CHARACTERISTICS

PARAMETER	VALUE
SIZE	3 x 1 x 0.5 (76.2 x 24.5 x 12.7)
WEIGHT	1 Ounce (28.3 grams) approx.
PACKAGING	Fully encapsulated
CASE MATERIAL	Black glass/epoxy
WIRE	30 kV Silicone wire #22 AWG
MOUNTING	PC pins/mounting holes

