

## MINIATURE HIGH VOLTAGE DIVIDER 1kV - 25kV; RATIO 1000:1

**EMCO** HIGH VOLTAGE CORPORATION



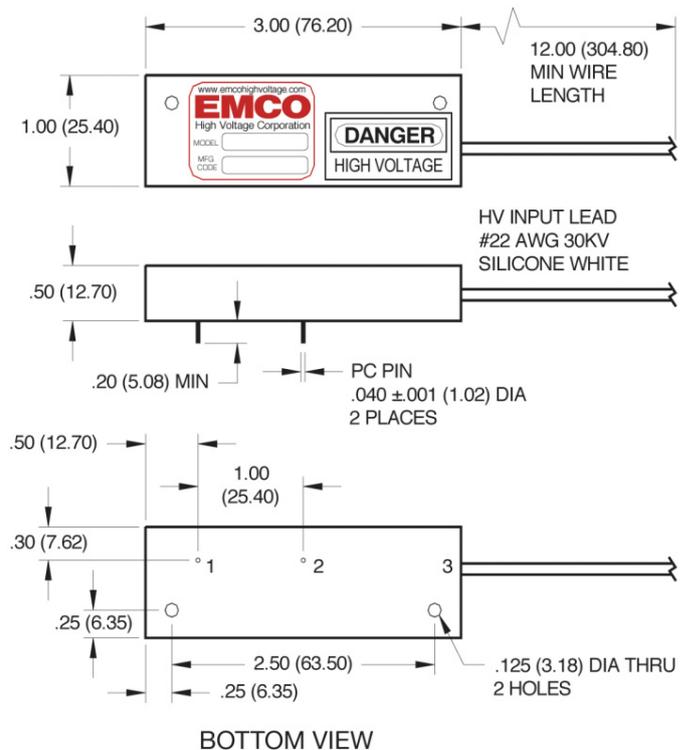
For laboratory measurement, system test point, or control loop feedback, this precision, low drift, high voltage divider provides a low voltage output from voltages as high as 25,000 V<sub>DC</sub>. The 1000:1 divider is internally compensated for your digital multimeter's 10 MΩ input impedance. Ratio tolerance is 1% and temperature drift is a low 50 ppm.

The V1G 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 high voltage encapsulation techniques, the divider is protected from the problems that occur when high voltage is exposed to dust and moisture. PCB pins and mounting holes make this module ideal for PCB mounting. The high voltage connection is made through a 30 kV silicone wire.

### ■ SPECIFICATIONS

Voltage Range:	1 kV <sub>DC</sub> - 25 kV <sub>DC</sub>
Ratio:	1000 : 1 into 10 MΩ
Ratio Tolerance:	<1%
Ratio Temp. Coefficient:	<75 ppm/°C
Total Resistance:	1000 MΩ
Operating Temperature:	-10°C - +60°C
Dimensions (LxWxH):	3 x 1 x 0.5 inch <sup>3</sup> 76.2 x 25.4 x 12.7mm <sup>3</sup>
Weight:	1 oz [28.3 g] approx.
Packaging:	fully encapsulated
Case Material:	black glass / epoxy
Mounting:	PCB pins / mounting holes
Wire:	30 kV silicone wire #22 AWG

### ■ DIMENSIONS



Dimensions are in inches (metric equivalents in parenthesis)  
Dimensional Tolerances: ±.03 (0.76 mm)

### ■ PIN FUNCTION DESCRIPTIONS

Pin No.	Function
1	Ground
2	Output
3	HV Input