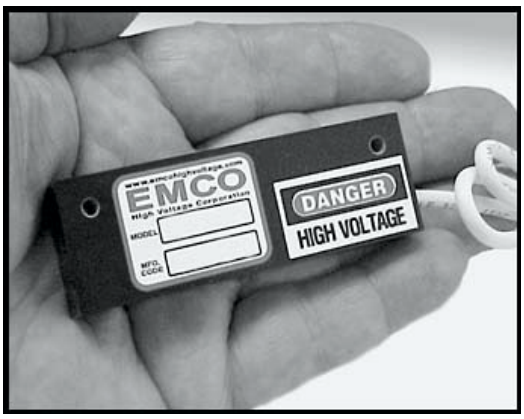
# Miniature High Voltage Divider

EMCO HIGH VOLTAGE CORPORATION




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.

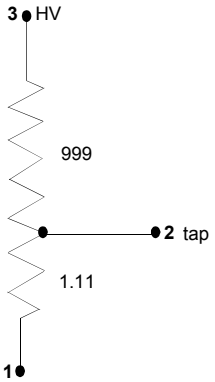
## PHYSICAL CHARACTERISTICS

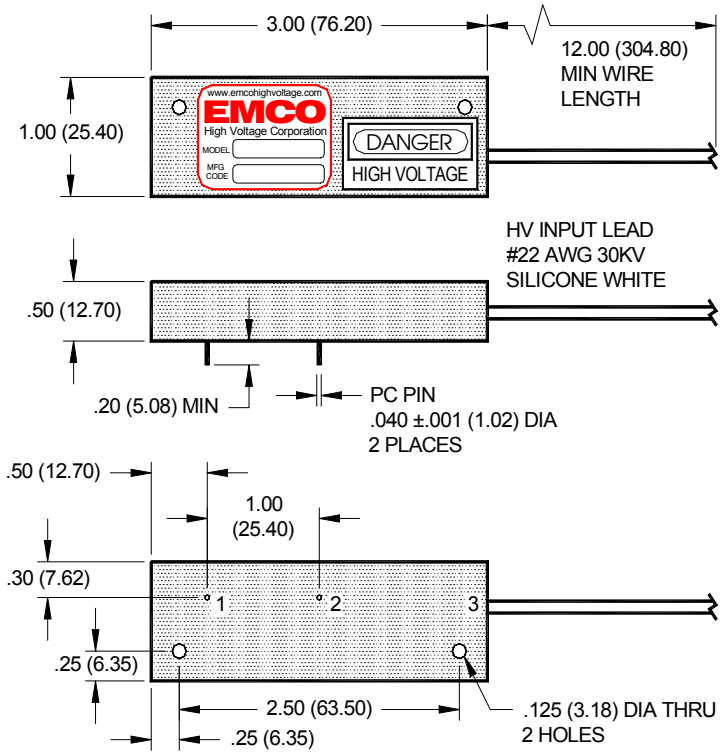
SIZE: 3 x 1 x 0.5 (76.2 x 25.4 x 12.7 )
WEIGHT: 1 Ounce (28.3 grams) Approx.
PACKAGING: Fully Encapsulated
CASE MATERIAL: Black Glass/Epoxy
WIRE: 30 kV Silicone Wire #22 AWG
MOUNTING: PC Pins/Mounting Holes

## ELECTRICAL SPECIFICATIONS

VOLTAGE RANGE: 1,000 to 25,000 VDC
RATIO: 1000:1 into 10 MΩ
RATIO TOLERANCE: <1%
RATIO TEMP COEFFICIENT: <75 ppm/°C
TOTAL RESISTANCE: 1,000 MΩ
OPERATING TEMP: -10° to +60°

## SCHEMATIC DIAGRAM




BOTTOM VIEW

## OUTLINE DRAWING

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

| Pin # | Function |
|---|---|
| 1 | Ground |
| 2 | Output |
| 3 | HV Input |

We reserve the right to make changes without notification

- **OPTIONS**
  - **-R** RoHS compliant



**hivolt.de** GmbH & Co. KG
Tarpen 40 • Geb. 2 • D-22419 Hamburg • Germany • ✆ +49 40 537122-0 • 🖷 +49 40 537122-99 • info@hivolt.de • www.hivolt.de