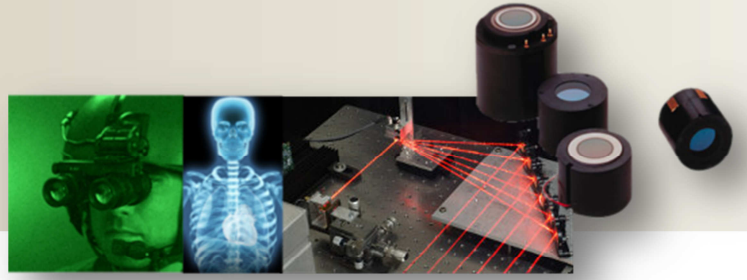




# Voltage Multipliers

## VM4 3.000 Vdc



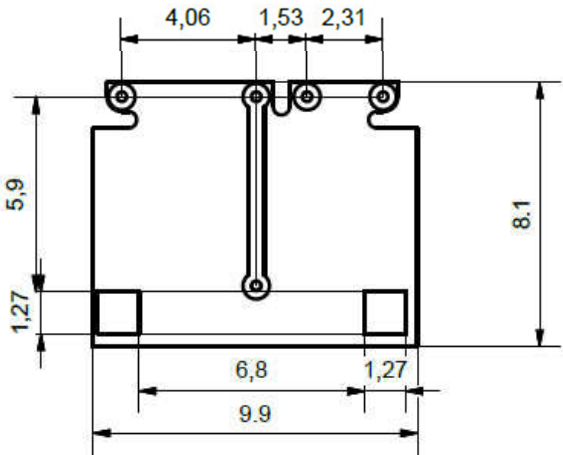
### Miniaturized Half Wave Voltage Multiplier

- Ultra small size
- Highly Efficient
- ITAR free
- Uniform stress on diodes

Plating: Electroless Nickel / Immersion Gold (ENIG)

Tolerance:  $\pm 0.25\text{mm}$

Unit: Millimeters



Vout Ac Gnd Vin

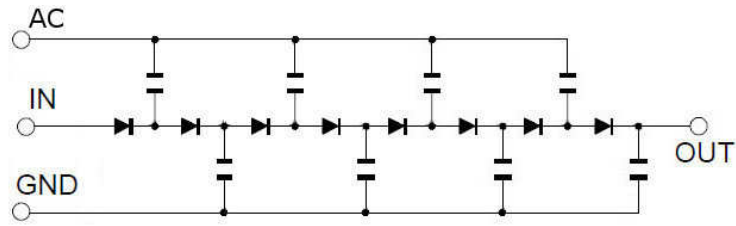


Minimum 0.8 mm free on the metallic pads

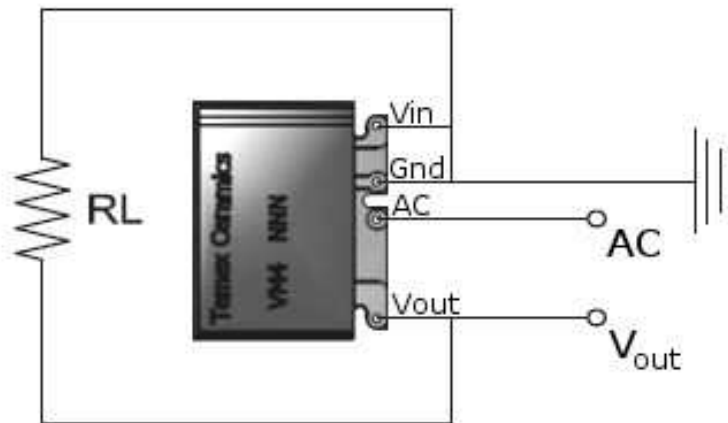
Maximum A.C. Input Voltage	800 Vpp
Maximum D.C. Output Voltage	3000 Vdc
Typical Output Current Range	0 to 50 $\mu\text{A}$
Typical Frequency	10 to 100 KHz
Number of Stages	8
Operating and storage Temperatures	-55°C to +125°C
Pin finish	ENIG Gold
Peak wave solder temperature	260°C 2mm
Peak reflow temperature	260°C
Floor Life	MSL/JDEC 2

The component must be coated on the board to prevent electrical arcs

- **Electrical equivalent circuit**



- **Typical multiplier circuit**



2 Multipliers can be mounted in Series for a DC output up to 6000V.

### Output Voltage Vs. Input Voltage

