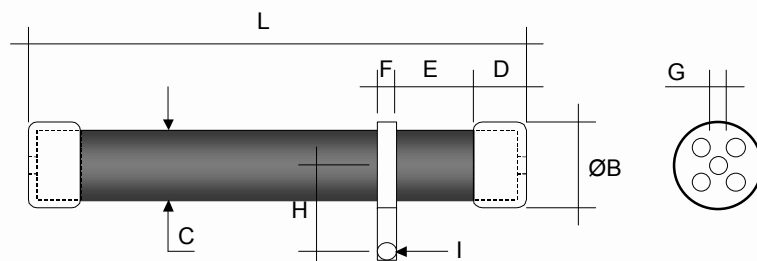


## Ultra High Voltage Dividers Series 2000 Precision, Non-Inductive, Low TC

Ultra High Voltage Dividers Series 2000 combine proprietary non-inductive resistance system and design to achieve low ratio temperature coefficient, low voltage coefficients, tight ratio tolerances, high stability and increased high operating voltages.

These Precision High Voltage Dividers can provide important improvements in performance in many types of advanced electronic systems, including power supplies, radar systems, X-ray systems, analytical equipment and geophysical instruments.



| Model           | Wattage | Max. Operating Voltage | Dimensions in millimeters $\pm 2.00$<br>[Dimensions in inches $\pm 0.08$ ] |                 |                 |                 |                 |                |                 |                |    |
|-----------------|---------|------------------------|--|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|----------------|----|
|                 |         |                        | L (max.)   | B               | C               | D               | E               | F              | H               | I              | G  |
| <b>2000.150</b> | 100.00  | 160'000                | 470<br>[18.50]   | 40.00<br>[1.58] | 38.00<br>[1.50] | 18.00<br>[0.71] | 40.00<br>[1.58] | 8.00<br>[0.32] | 36.00<br>[1.42] | 4.00<br>[0.16] | M8 |
| <b>2000.200</b> | 150.00  | 200'000                | 600<br>[23.62]   | 40.00<br>[1.58] | 38.00<br>[1.50] | 18.00<br>[0.71] | 40.00<br>[1.58] | 8.00<br>[0.32] | 36.00<br>[1.42] | 4.00<br>[0.16] | M8 |
| <b>2000.250</b> | 200.00  | 240'000                | 800<br>[31.50]   | 50.00<br>[1.97] | 48.00<br>[1.89] | 18.00<br>[0.71] | 40.00<br>[1.58] | 8.00<br>[0.32] | 41.00<br>[1.62] | 4.00<br>[0.16] | M8 |
| <b>2000.280</b> | 250.00  | 240'000                | 780<br>[30.71]   | 62.00<br>[2.44] | 60.00<br>[2.36] | 18.00<br>[0.71] | 40.00<br>[1.58] | 8.00<br>[0.32] | 47.00<br>[1.85] | 4.00<br>[0.16] | M8 |
| <b>2000.300</b> | 250.00  | 320'000                | 1000<br>[39.37]  | 50.00<br>[1.97] | 48.00<br>[1.89] | 18.00<br>[0.71] | 40.00<br>[1.58] | 8.00<br>[0.32] | 41.00<br>[1.62] | 4.00<br>[0.16] | M8 |
| <b>2000.350</b> | 300.00  | 320'000                | 1025<br>[40.35]  | 62.00<br>[2.44] | 60.00<br>[2.36] | 18.00<br>[0.71] | 40.00<br>[1.58] | 8.00<br>[0.32] | 47.00<br>[1.85] | 4.00<br>[0.16] | M8 |
| <b>2000.400</b> | 350.00  | 400'000                | 1320<br>[51.97]  | 62.00<br>[2.44] | 60.00<br>[2.36] | 18.00<br>[0.71] | 40.00<br>[1.58] | 8.00<br>[0.32] | 47.00<br>[1.85] | 4.00<br>[0.16] | M8 |

### Characteristics

|                         |  |   |                                      |
|-------------------------|--|---|--------------------------------------|
| Resistance Values       | from 1K $\Omega$ to as high as 100G $\Omega$ on all models (to 1T $\Omega$ on request)   |   |                                      |
| Ratios                  | from 1:100 to 1:10'000, other on request   |   |                                      |
| Absolute Tolerances     | 0.05%, 0.1%, 0.25%, 0.5%, 1%, 2%, 5% (0.05% avail. to 10G, 0.25% to 100G, other on request)                                      |   |                                      |
| Ratio Tolerances        | 0.05%, 0.1%, 0.25%, 0.5%, 1% (other on request)  |   |                                      |
| Absolute Temp. Coeff. * | 10, 15, 25, 50 and 100 ppm/ $^{\circ}$ C (10 ppm/ $^{\circ}$ C available to 10G, 25 ppm/ $^{\circ}$ C to 100G, other on request) |   |                                      |
| Ratio Temp. Coeff. *    | 10, 15, 25 and 50 ppm/ $^{\circ}$ C  |   |                                      |
| Operating Temperature   | -55 .. +175 $^{\circ}$ C   | (extended temperature range to 350 $^{\circ}$ C available)  |                                      |
| Insulation Resistance   | > 10'000 M $\Omega$  | 500 Volt 25 $^{\circ}$ C 75% relative humidity              |                                      |
| Dielectric Strength     | > 1'000 Volt   | 25 $^{\circ}$ C 75% relative humidity                       |                                      |
| Thermal Shock           | $\Delta$ R/R < 0.1% typ., 0.20% max.   | MIL Std. 202, method 107 Cond. C                            | IEC 68 - 2 - 14                      |
| Overload                | $\Delta$ R/R < 0.1% typ., 0.25% max.   | 1,5 x P <sub>nom</sub> , 5 sec (do not exceed max. voltage) |                                      |
| Moisture Resistance     | $\Delta$ R/R < 0.1% typ., 0.25% max.   | MIL Std. 202, method 106                                    | IEC 68 - 2 - 3                       |
| Load Life               | $\Delta$ R/R < 0.1% typ., 0.25% max.   | 1000 hours at rated power                                   | IEC 115 - 1                          |
| Encapsulation           | Silicone Conformal Coating   | Core Material   | Al <sub>2</sub> O <sub>3</sub> (96%) |
| Lead Material           | Brass Caps (lug terminations avail.)   | Resistor Material   | Ruthenium Oxide                      |

\* Temperature Coefficients referenced to 25 $^{\circ}$ C,  $\Delta$ R taken at +125 $^{\circ}$ C

### Derating Curve

