

M968 High Voltage Precision Resistors



Designed for applications such as voltage dividers, medical and measuring equipment, electrostatic and current limiting devices where high stability, low TCR and high ohmic values are required



- Non Inductive, Thick Film
- Low TCR
- High Voltage to 54 kVdc
- Tolerance as low as $\pm 0.1\%$
- RoHS Compliant

Characteristics

Operating temperature:	-55°C to +225°C
Tolerance (Code):	$\pm 0.1\%$ (B), $\pm 0.25\%$ (C), $\pm 0.5\%$ (D), $\pm 1\%$ (F), $\pm 2\%$ (G), $\pm 5\%$ (J), $\pm 10\%$ (K)
Temperature coefficient (Code):	$\pm 15\text{ppm}/^\circ\text{C}$ (A), $\pm 25\text{ppm}/^\circ\text{C}$ (E), $\pm 50\text{ppm}/^\circ\text{C}$ (F), $\pm 100\text{ppm}/^\circ\text{C}$ (S), $\pm 200\text{ppm}/^\circ\text{C}$ (L) TCR stated is measure between +25°C and +85°C. For TCR outside this range, please contact ARCOL
Insulation resistance:	>10,000Mohm 500 Volts at 25°C, 75% relative humidity
Dielectric strength:	> 1000 Volt 25°C, 75% relative humidity
Thermal shock:	$\Delta R/R$ 0.25% max, MIL Std. 202, meth. 107 Cond. C.IEC 68-2-14
Overload:	$\Delta R/R$ 0.25% max $1.5 \times P_{nom}$ 5 sec (do not exceed $1.5 \times V$ max)
Moisture resistance:	$\Delta R/R$ 0.25% max, MIL std. 202, method 106, IEC 68-2-3
Load life:	$\Delta R/R$ 0.5%, max 1000 hours at rated power, IEC 115-1

Electrical Specifications

Type	Wattage	U kVdc	Tolerance 1% - 10% $\pm 200\text{ppm}/^\circ\text{C}$	Tolerance 0.5% - 10% $\pm 100\text{ppm}/^\circ\text{C}$	Tolerance 0.25% - 10% $\pm 50\text{ppm}/^\circ\text{C}$	Tolerance 0.1% - 5% $\pm 25\text{ppm}/^\circ\text{C}$, $\pm 15\text{ppm}/^\circ\text{C}$
M968.2	3.8	12	400R - 10G	400R - 1G	400R - 1G	60K - 500M
M968.3	5	18	500R - 15G	500R - 1G5	500R - 1G5	80K - 750M
M968.5	7.5	24	900R - 20G	900R - 2G	900R - 2G	120K - 1G
M968.7	10	36	1K2 - 30G	1K2 - 3G	1K2 - 3G	180K - 1G5
M968.10	12.5	60	1K7 - 30G	1K7 - 3G	1K7 - 3G	240K - 2G
M968.12	15	75	2K6 - 30G	2K6 - 5G	2K6 - 3G	300K - 2G
M968.15	17	90	3K2 - 30G	3K2 - 6G	3K2 - 3G	350K - 2G

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The information contained herein does not form part of a contract and is subject to change without notice. Arcol operate a policy of continual product development, therefore, specifications may change.

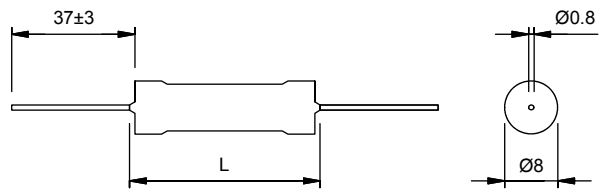
It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask Arcol.

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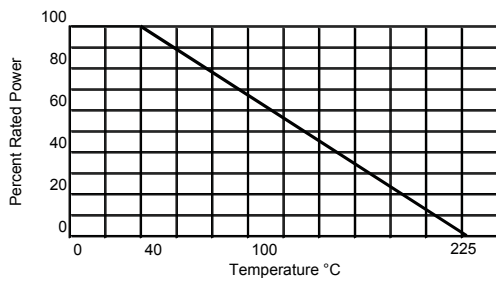


Dimensions (mm)

Type	L	ø
M968.2	27.0	8
M968.3	37.0	8
M968.5	52.0	8
M968.7	78.0	8
M968.10	103.0	8
M968.12	123.0	8
M968.15	153.0	8



Derating Curve



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