

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
- RoHS Compliant
- High Voltage to 54 kVdc
- Tolerance as low as $\pm 0.1\%$



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)
Insulation resistance:	> 10,000Mohm 500 Volts @ 25°C, 75% relative humidity
Dielectric strength:	> 1000 Volt 25°C, 75% relative humidity
Thermal shock:	$\Delta R/R$ 0.2% max
Overload:	$\Delta R/R$ 0.25% max 1.5 x Pnom, 5 sec (do not exceed 1.5 x V max)
Moisture resistance:	$\Delta R/R$ 0.25% max
Load life:	$\Delta R/R$ 0.25%, max 1000 hours at rated power

These resistors are tailored for operation in air and not aggressive atmospheres. For special applications (i.e. oil, casting, moulding, etc) please contact ARCOL.

Electrical Specifications

Type	Electrical data		Resistance range available at Tolerance / TCR				
	P Watt	U kVdc	$\pm 0.1\sim 20\%$ 15 ppm/°C	$\pm 0.1\sim 20\%$ 25 ppm/°C	$\pm 0.25 \sim 20\%$ 50 ppm/°C	$\pm 0.5 \sim 20\%$ 100 ppm/°C	$\pm 1 \sim 20\%$ 200 ppm/°C
968.2	3.8	9	60k-500m	60k-500m	400R-1G	400R-1G	400R-10G
968.3	5	12	80K-750M	80K-750M	500R-1G5	500R-1G5	500R-15G
968.5	7.5	18	120K-1G	120K-1G	900R-2G	900R-2G	900R-20G
968.7	10	24	180K-1G5	180K-1G5	1K2-3G	1K2-3G	1K2-30G
698.10	12.5	36	240K-2G	240K-2G	1K7-3G	1K7-4G	1K7-30G
968.12	15	42	300K-2G	300K-2G	2K6-3G	2K6-5G	2K6-30G
968.15	17	54	350K-2G	350K-2G	3K2-3G	3K2-6G	3K2-30G

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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.

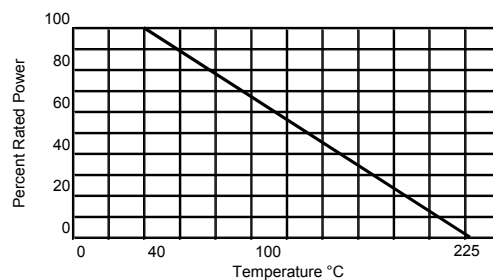
Ordering Procedure

Standard Resistor To specify standard: Series, Termination Style, Coating Type, Ohmic Value, Tolerance Code and Temperature Coefficient Code, e.g.: 968.3 20M D F

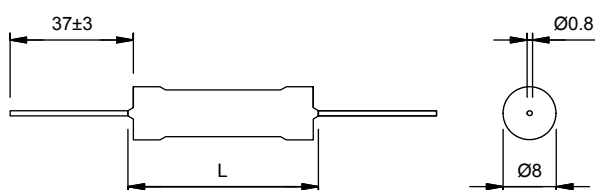
Tolerance (Code) $\pm 0.1\%$ (B), $\pm 0.25\%$ (C), $\pm 0.5\%$ (D), $\pm 1\%$ (F), $\pm 2\%$ (G), $\pm 5\%$ (J), $\pm 10\%$ (K)

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)

Derating Curve



Dimensions (mm)



Type	L
968.2	27 ± 1
968.3	37 ± 1
968.5	52 ± 1
968.7	78 ± 1.5
698.10	103 ± 1.5
968.12	128 ± 2
968.15	153 ± 2