

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 96 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)
TCR stated is measure at +25°C and +85°C. For TCR outside this range, please contact ARCOL	
Insulation resistance:	> 10,000Mohm 500 Volts @ 25°C, 75% relative humidity
Dielectric strength:	> 1000 Volt 25°C, 75% relative humidity
Thermal shock:	$\Delta R/R$ 0.25% 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:	$\Delta R/R$ 0.5% max 1000 hours at rated load

Conformal silicone coating as standard for operation in air. For oil and potted applications, ARCOL would suggest polyimide coating. Please contact ARCOL for further details.

Electrical Specifications

Type	Electrical data		Resistance range available at Tolerance / TCR					
	P Watt 40°C	U kV dc	$\pm 0.1\text{-}10\%$ 15 ppm/°C	$\pm 0.1\text{-}10\%$ 25 ppm/°C	$\pm 0.5\text{-}10\%$ 50 ppm/°C	$\pm 0.5\text{-}10\%$ 100 ppm/°C	$\pm 2\text{-}10\%$ 150 ppm/°C	$\pm 2\text{-}10\%$ 200 ppm/°C
ARC3-11	11	24	50K-500M	50K-500M	500R-1G	500R-1G	500R-5G	500R-5G
ARC3-23	23	48	100K-1G	100K-1G	700R-1G	700R-1G	700R-10G	700R-10G
ARC3-54	54	48	100K-1G	100K-1G	2R-1G	2R-1G	2R-10G	2R-10G
ARC3-71	71	64	100K-1G5	100K-1G5	20R-1G5	20R-1G5	20R-15G	20R-15G
ARC3-105	105	96	150K-2G	150K-2G	80R-2G	80R-2G	80R-25G	80R-25G

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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

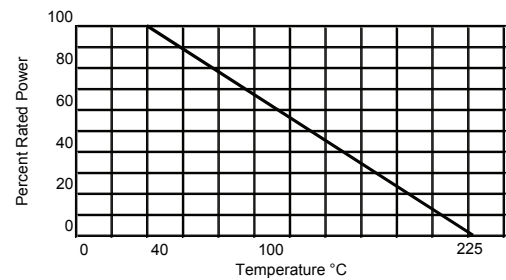
Standard Resistor To specify standard: Series, Termination Style, Coating Type, Ohmic Value, Tolerance Code and Temperature Coefficient Code, e.g.: ARC3-23 20M D E

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)

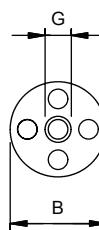
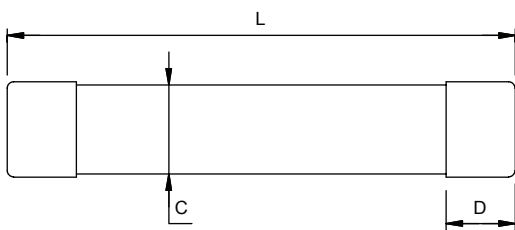
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For Polyimide coating add DP: e.g.: ARC3-23 DP 20M D E

Derating Curve



Dimensions (mm)



Type	L	B	C	D	G
ARC3-11	81 ± 1	14.5 ± 0.2	13.5 ± 0.5	10.0 ± 0.2	M4
ARC3-23	156 ± 2	14.5 ± 0.2	13.5 ± 0.5	10.0 ± 0.2	M4
ARC3-54	160 ± 2	31.5 ± 0.2	30.5 ± 0.5	18.0 ± 0.2	M8
ARC3-71	210 ± 2.5	31.5 ± 0.2	30.5 ± 0.5	18.0 ± 0.2	M8
ARC3-105	308 ± 3.5	31.5 ± 0.2	30.5 ± 0.5	18.0 ± 0.2	M8

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