ARC2 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

• High Voltage to 54 kVdc

Low TCR

• Tolerance as low as ± 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): ± 15ppm/°C (A), ± 25ppm/°C (E), ± 50ppm/°C (F), ± 100ppm/°C (S), ± 200ppm/°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: \triangle R/R 0.25% max

Overload: \triangle R/R 0.25% max 1.5 x Pnom, 5 sec (do not exceed 1.5 x V max)

Moisture resistance: \triangle R/R 0.25% max

Load life: \triangle R/R 0.5%, max 1000 hours at rated power

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

please contact ARCOL.

Electrical Specifications

	Electrical data					
Туре	P 40°C Watt	U kVdc	± 0.1 - 5% 15ppm/°C 25 ppm/°C	± 0.25 - 10% 50 ppm/°C	± 0.5 - 10% 100 ppm/°C	± 1 - 10% 200 ppm/°C
ARC2-2	3.8	9	60K - 50M	400R-1G	400R-1G	400R-10G
ARC2-3	5	12	80K-750M	500R-1G5	500R-1G5	500R-15G
ARC2-5	7.5	18	120K-1G	900R-2G	900R-2G	900R-20G
ARC2-7	10	24	180K-1G5	1K2-3G	1K2-3G	1K2-30G
ARC2-10	12.5	36	240K-2G	1K7-3G	1K7-4G	1K7-30G
ARC2-12	15	42	300K-2G	2K6-3G	2K6-5G	2K6-30G
ARC2-15	17	54	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.

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Resistors

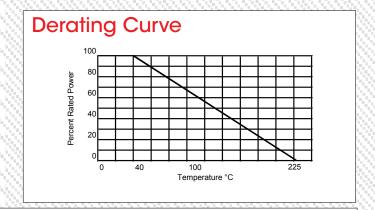


Ordering Procedure

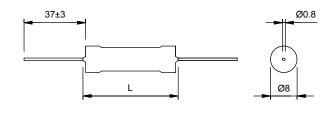
Standard Resistor To specify standard: Series, Termination Style, Coating Type, Ohmic Value, Tolerance Code and Temperature Coefficient Code, e.g.: ARC2-3 20M D F

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

Temperature Coefficient (Code) ±15ppm/°C (A), ±25ppm/°C (E), ±50ppm/°C (F), ±100ppm/°C (S), ±200ppm/°C (L)



Dimensions (mm)



Type	L	
ARC2-2	27 ± 1	
ARC2-3	37 ± 1	
ARC2-5	52 ± 1	
ARC2-7	78 ± 1.5	
ARC2-10	103 ± 1.5	
ARC2-12	128 ± 2	
ARC2-15	153 ± 2	

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