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
- Low TCR
- RoHS Compliant
- High Voltage to 54 kVdc
- Tolerance as low as ± 0.1%

Characteristics

Operating temperature:	-55°C to +225°C	
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)	
	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:	△R/R 0.25% max	
Overload:	△R/R 0.25% max	1.5 x Pnom, 5 sec (do not exceed 1.5 x V max)
Moisture resistance:	△R/R 0.25% max	
Load life:	△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					
Type	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

For more information and ordering, please consult
www.arcolresistors.com

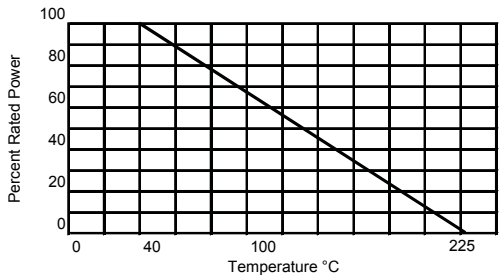
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Ordering Procedure

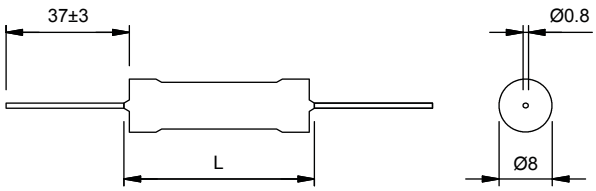
Standard Resistor To specify standard: Series, Termination Style, Coating Type, Ohmic Value, Tolerance Code and Temperature Coefficient Code, e.g.: ARC2-3 20M D F

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)

Derating Curve



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