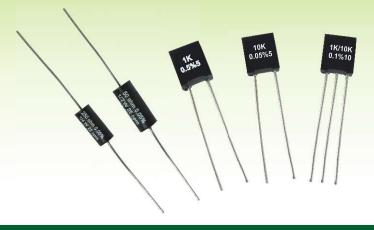


ENCAPSULATED PRECISION RESISTORS



INTRON precision thin film resistors are made by vacuum depositing a controlled film of NiCr on high purity alumina substrate. The resistors are formed using high resolution photolithography. The values are micro trimmed to the exact value with a tolerance of 0.05%. The TCR and tolerance is obtained by process capability and does not rely on a selection process. These resistors are encapsulated using epoxy making them more robust. Resistor sets matched to precise tolerance and TCR can be given.

FEATURES:

Resistive Material : NiCrSubstrate Material : Alumina

Body : Epoxy EncapsulatedTerminals : Tinned Copper wire

• Resistance Range : 10Ω to $1M \Omega$

any odd value possible.

• High Precision : $\pm 0.05\%$, $\pm 0.1\%$, $\pm 0.2\%$, $\pm 0.5\%$, $\pm 1\%$

• Low TCR : ±10, ±15, ±25 ppm/°C

(tested between 25°, 75° & 125°C) ±5ppm/°C for values 100 Ω to 100K Ω

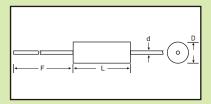
APPLICATIONS:

- Precision weighing scales
- Temperature and Chart recorder
- Calibration equipment
- Testing and measuring equipment
- High Precision amplifiers
- High end Audio equipment

AXIAL RESISTOR:

TYPE	POWER RATING	LEAD PITCH	MAXIMUM WORKING	RESISTOR	DIMENSIONS IN MM (max.)			
	@ 70°C	INCH	VOLTAGE	RANGE	L	D	F	d
AX	1/2W	AXIAL	500V	10Ω to 1M	14.0	5.5	25.0	0.6

DIMENSIONS:

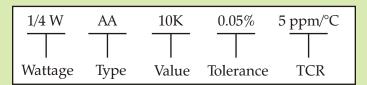


MARKING:

The resistors are marked with value tolerance and TCR for easy identification.

Any customer code can be printed on the resistor depending on the space.

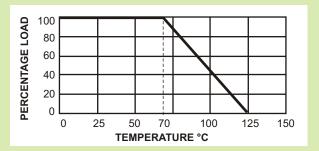
ORDERING INFORMATION:



PERFORMANCE:

Parameters	Specifications	Test Conditions	
Operating Temperature Range	-55°C to +125°C		
Insulation Resistance	10,000M Ω	300 Volts, 1 minute	
Temperature Cycling	+/- 0.05%	-55°C 30min, +125°C 30min, 5 cycles	
Damp Heat	+/- 0.1%	40°C, 90-95% RH, DC 0.1W, 1,000 hours	
Short Time Overload	+/- 0.05%	2.5 times the Rated Voltage for 5 seconds	
Load Life	+/- 0.1%	Rated Power at 70°C, 90min ON, 30min OFF, 1000 hours	
Soldering Heat	+/- 0.03%	350°C, 3 seconds	
Moisture Resistance	+/- 0.1%	+65°C to -10°C, 90-100%RH, Rated Voltage, 10 cycles (240 hours)	
Solderability	Covered 95%	235°C, 2 seconds	
Solvent	No Damage	IPA test	
Noise	< - 43dB		
Shelf Life Stability	+/- 0.03%	One year at 25°C	

POWER DERATING CURVE:





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