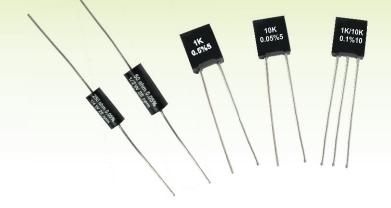
INTRON **ENCAPSULATED PRECISION RESISTORS**



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 0.01%. 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 : NiCr
- Substrate Material : Alumina
- Body •
 - : Epoxy Encapsulated : Tinned Copper wire Terminals
- Resistance Range : 10 Ω to 1M Ω
 - any odd value possible.
- High Precision ٠
- Low TCR

- : ±0.01%, ±0.05%, ±0.1%, ±0.2%, ±0.5% : **±5**, **±**10, **±**15, **±**25 ppm/°C ± 1 ppm/°C for values 100 Ω to 10K Ω

(tested @ 25°, 75° & 100°C)

APPLICATIONS:

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

RADIAL RESISTOR:

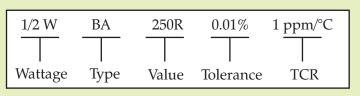
TYPE	POWER RATING		MAXIMUM WORKING	RESISTOR	DIMENSIONS IN MM (max.)					
	@ 70°C	INCH	VOLTAGE	RANGE	L	В	D	Е	F	d
BA	1/2W	0.2	500V	10Ω to 1M	7.5	8.3	3.2	5.08	25.0	0.6

MARKING:

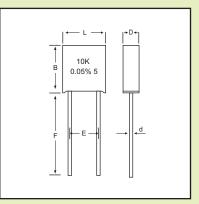
The resistors are marked with value tolerance and TCR for easy identification.

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

ORDERING INFORMATION:



DIMENSIONS:

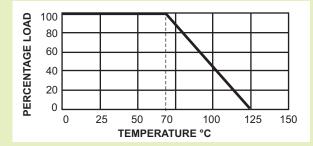


www.intronresistors.com

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:



INTRON

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