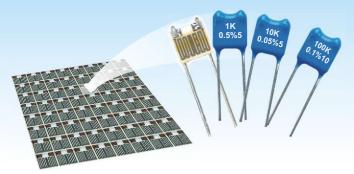
INTRON

RADIAL PRECISION RESISTORS (EPOXY COATED)

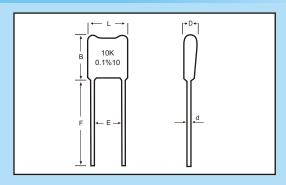


INTRON precision thin film resistors are made by vacuum depositing a controlled film of NiCr on high purity alumina substrate. The resistors are formed using high resolution photolithography. The values are micro trimmed to the exact value with a tolerance of 0.05%. The TCR and tolerance is obtained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

SPECIFICATIONS:

РНОТО	TYPE	POWER RATING	LEAD	MAXIMUM WORKING	DECICTOR	DIMENSIONS IN MM (max.)						
		@ 70°C	PITCH INCH	VOLTAGE	RESISTOR RANGE	L	В	D	E	F	d	
T	LSAA	1/4W	0.2	350V	10Ω to 1M	7.0	7.5	2.3	5.08	10.0	0.5	

DIMENSIONS:



APPLICATIONS:

Precision weighing scales, Temperature and Chart recorders, Calibration equipment, Testing and measuring equipment, High Precision amplifiers, Current Sensing, High end Audio equipment, etc.

FEATURES:

- High Precision: ± 0.05%, ± 0.1%, ± 0.2%, ± 0.5%, ± 1%
- Low Temperature Co-efficient: ± 5, ± 10, ± 15, ± 25 ppm/°C (tested between 25°, 75° & 125°C)
- Wide Resistance Range:10 ohm to 1M ohm with any odd value possible.
- Radial lead design: Lead pitch of 0.1", 0.2", 0.4" Lead frame design available on request.
- Wattage: 1/6W, 1/4W, 1/2W @ 70°C.

MARKING:

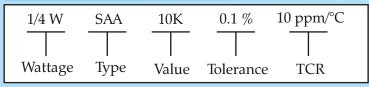
The resistors are marked with value, tolerance and tcr for easy identification.

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

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, 1,000hours				
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, 1000hours				
Soldering Heat	+/-0.03%	350°C, 3seconds				
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				

ORDERING INFORMATION:



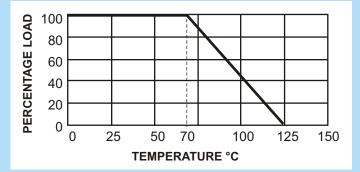
STANDARD TESTING PROCEDURE :

For 100% of the resistors:

- 1. Short time Overload in which 2.5 times the rated voltage (6.25 x rated power) is applied for 5 seconds.
- 2. Rated Wattage in which the rated voltage is dissipated in the resistor for 24 hours.
- 3. TCR measurement done at 25°C, 75°C and 125°C.
- 4. Resistance tolerance measured on 7 $\frac{1}{2}$ DMM at 25°C.
- 5. Visual and Mechanical inspection.

INTRON

POWER DERATING CURVE:



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