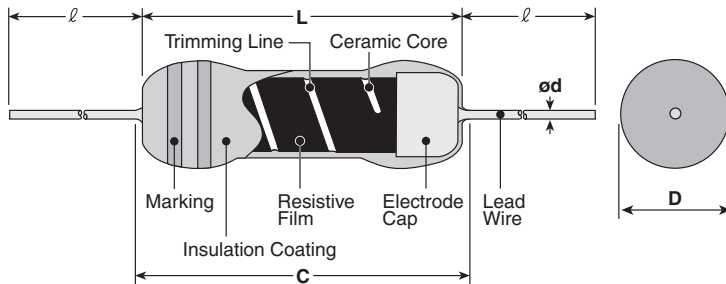


features

- High precision and low T.C.R. metal film resistor
- Excellent stability for a long time
- Products meet EU RoHS requirements

Leaded resistors

dimensions and construction



Type	Dimensions inches (mm)				
	L	C (max.)	D	d (nom.)	l
SN3A	.555±.08 (14.1±2.0)	.720 (18.3)	.189±.039 (4.8±1.0)	.039 (1.0)	1.50±.118 (38±3)
SN3D	.650±.08 (16.5±2.0)	.846 (21.5)	.331±.039 (8.4±1.0)	.039 (1.0)	

ordering information

SN	3A	D	C	1002	F
Type	Power Rating 3A: 1W 3D: 2W	T.C.R. (x10 ⁻⁶ /K) C: ±50 D: ±100 L: ±200	Termination Surface Material C: SnCu	Nominal Resistance D, F: 4 digits G: 3 digits	Resistance Tolerance D: ±0.5% F: ±1% G: ±2%

Contact KOA when you have control request for environmental hazardous material other than the substance specified by EU-RoHS.

For further information on packaging, please refer to Appendix C.

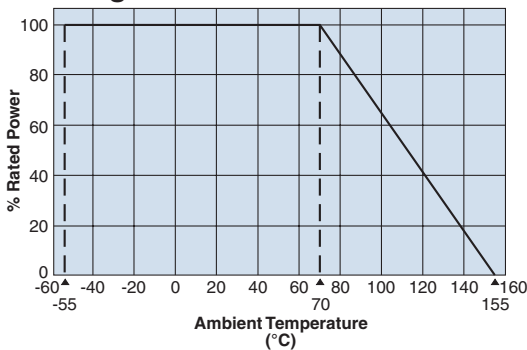
applications and ratings

Part Designation	Power Rating	T.C.R. (x10 ⁻⁶ /K)	Resistance Range (Ω)			Maximum Working Voltage	Maximum Overload Voltage	Dielectric Withstanding Voltage	Rated Ambient Temp.	Operating Temp. Range
			D: ±0.5% E24, E192	F: ±1% E24, E96	G: ±2% E24					
SN3ACC	1W	C: ±50	—	10 - 1M	—	500V	1000V	1000V	+70°C	-55°C to +155°C
SN3ADC		D: ±100	10 - 1M	10 - 1M	10 - 1M					
SN3ALC		L: ±200	—	4.99 - 10	1 - 10					
SN3DDC	2W	D: ±100	10 - 1.5M	10 - 1.5M	10 - 1.5M					
SN3DLC		L: ±200	—	—	5.1 - 10					

Rated voltage = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$ or Max. working voltage, whichever is lower.

environmental applications

Derating Curve



For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.

Performance Characteristics

Parameter	Requirement $\Delta R \pm(\% + 0.05\Omega)$ Limit	Test Method
Resistance	Within specified tolerance	25°C
T.C.R.	Within specified T.C.R.	+25°C/+125°C
Overload (Short time)	±0.5%	Rated voltage x 2.5 or max. overload voltage, whichever is lower, for 5 seconds
Resistance to Solder Heat	±0.25%	260°C ±5°C, 10 seconds ± 1 second
Rapid Change of Temperature	±0.5%	-55°C (30 minutes)/+155°C (30 minutes), 5 cycles
Moisture Resistance	±1%	40°C ± 2°C, 90 - 95% RH, 1000 hours, 1.5 hr ON/0.5 hr OFF cycle
Endurance at 70°C	±1%	70°C ± 2°C, 1000 hours, 1.5 hr ON/0.5 hr OFF cycle