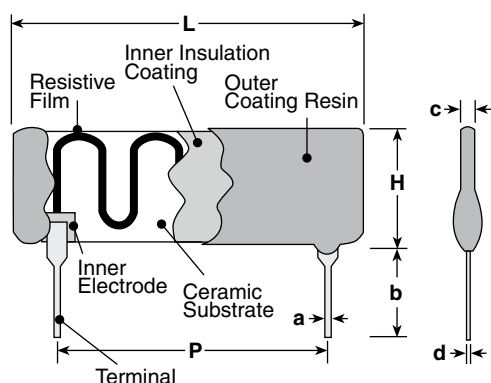


## features

- High resistance resistors for high voltage circuits
- Thin SIP shape
- The flame retardant coats corresponding to UL94V-0 are used
- Thick film resistors ( $\text{RuO}_2$ ) ensure high stabilities in life and change in aging
- Marking: Black body color, alpha numeric marking
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.

## dimensions and construction



Type	Dimensions inches (mm)						P				
	L (Max.)	H (Max.)	a	b	c (Max.)	d					
4L	.500 (12.7)	.200 (5.08)	.020±.004 (0.5±0.1)	.118± <sup>.020</sup> <sub>.012</sub> (3.0 <sup>+0.5</sup> <sub>-0.3</sub> )	.098 (2.5)	.010±.004 (0.25±0.1)	.402±.008 (10.2±0.2)				
5L	.602 (15.3)						.5±.008 (12.7±0.2)				
6L	.701 (17.8)						.598±.008 (15.2±0.2)				
3C	.425 (10.8)	.256 (6.5)					—	—	—	—	.3±.008 (7.62±0.2)
5C	.622 (15.8)										.5±.008 (12.7±0.2)
7C	.823 (20.9)										.701±.008 (17.8±0.2)
8C	.925 (23.5)										.799±.008 (20.3±0.2)
9C	1.02 (26.0)	.902±.008 (22.9±0.2)									
NEW 11X	1.22 (31.0)	.394 (10.0)									—
	18X		1.93 (48.9)	1.8±.008 (45.7±0.2)							

## ordering information

New Part #	<b>RK92</b>	-	<b>5L</b>	<b>D</b>	<b>107</b>	<b>J</b>
	Type		Style	Termination Surface Material	Nominal Resistance	Resistance Tolerance
			4L 5L 6L 3C 5C 7C 8C 9C NEW 11X NEW 18X	D: SnAgCu	±2% ~ ±10%: 2 significant figures + 1 multiplier ±1%: 3 significant figures + 1 multiplier	F: ±1% G: ±2% J: ±5% K: ±10% M: ±20%

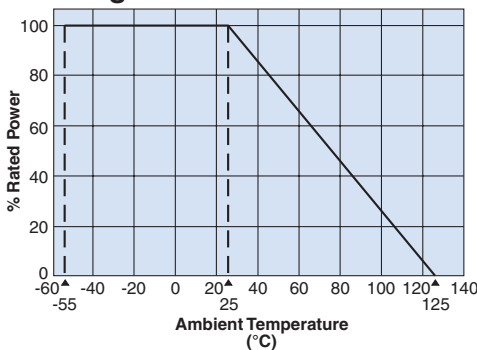
## applications and ratings

Part Designation	Power Rating	T.C.R. (ppm/°C) Max.	Resistance Range (Ω) E-12 • 2x10 <sup>n</sup> • 3x10 <sup>n</sup> • 4x10 <sup>n</sup> • 5x10 <sup>n</sup>					Maximum Working Voltage	Rated Ambient Temperature	Operating Temperature Range
			F: ±1%	G: ±2%	J: ±5%	K: ±10%	M: ±20%			
4L	0.5W	±300	2M - 10M	2M - 10M	—	—	—	1kV	+70°C	-25°C to +125°C
5L	0.5W		1M - 500M	1M - 500M	1M - 1G	1M - 1G	1M - 1G	10kV		
6L	0.6W		1M - 500M	1M - 500M	1M - 1G	1M - 1G	1M - 1G	10kV		
3C	0.5W		1M - 500M	1M - 500M	1M - 1G	1M - 1G	1M - 1G	7kV		
5C	0.75W		1M - 500M	1M - 500M	1M - 1G	1M - 1G	1M - 1G	10kV		
7C	0.85W		1M - 500M	1M - 500M	1M - 1G	1M - 1G	1M - 1G			
8C	1.0W		1M - 500M	1M - 500M	1M - 1G	1M - 1G	1M - 1G			
9C	1.1W		1M - 500M	1M - 500M	1M - 1G	1M - 1G	1M - 1G			
11X	1.7W		1M - 500M	1M - 500M	1M - 1G	1M - 1G	1M - 1G			
18X	2.7W		1M - 500M	1M - 500M	1M - 1G	1M - 1G	1M - 1G	15kV		

Please contact factory for other values that are not listed above.

## 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 $\Delta R \pm(\% + 0.05\Omega)$		Test Method
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified tolerance	—	+25°C/+125°C
Resistance to Solder Heat	1%	0.5%	260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	1%	0.5%	-25°C (30 minutes)/ +125°C (30 minutes) 5 cycles
Moisture Resistance	5%	3%	40°C ± 2°C, 90 - 95% RH, 1000 hours,
Endurance @ 70°C	5%	3%	Room temperature 1000 hours, Rated voltage