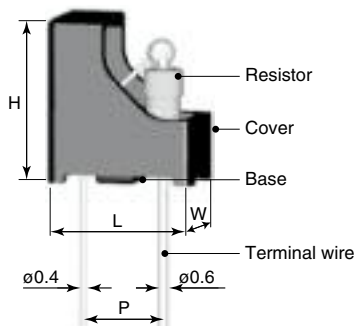


features

- Quickly fuses to the overload
- Circuit is completely isolated after fusing
- Lightning surge test (IEC61000-4-5) effective
- Can be used in high temperature environment

dimensions and construction



Type	Dimensions inches (mm)			
	L	W	H	P
TPR1	.354±.004 (9.0±0.1)	.197±.004 (5.0±0.1)	.394±.004 (10.0±0.1)	.197±.02 (5.0±0.5)

ordering information

New Part #	TPR	1	C	T	A	100	J
Type	Power Rating	Terminal Surface Material	Taping	Packaging	Nominal Resistance	Resistance Tolerance	
	1: 1W	C: Sn-Cu	T: Taping Blank: Bulk	A: AMMO Blank: Bulk Contact factory for taping specifications	2 significant figures + 1 multiplier "R" indicates decimal on values <10Ω	J: ±5%	

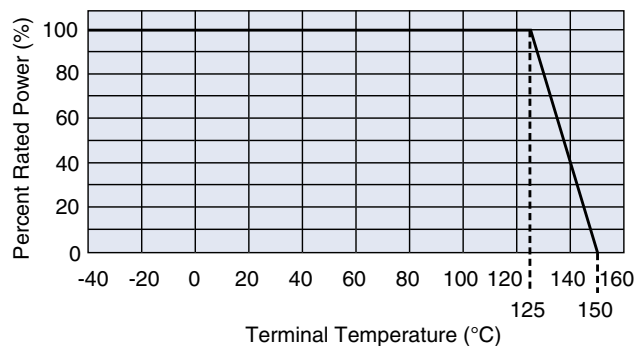
applications and ratings

Part Designation	Power Rating	Resistance Range	T.C.R. (x 10 ⁻⁶ /K)	Terminal Temperature Under Rated Load	Operating Temperature Range	Maximum Open-Circuit Voltage	Lightning Surge Test*	Maximum Working Voltage	Maximum Overload Voltage
		J: ±5% E24							
TPR1	1W	2Ω ~ 10kΩ	~51Ω: 200 56Ω~: 350	+125°C and less	-40°C ~ +150°C	320V a.c.	1.5kV	$E = \sqrt{P \times R}$	$E = \sqrt{P \times R \times 2}$

* Lightning surge test at 10Ω

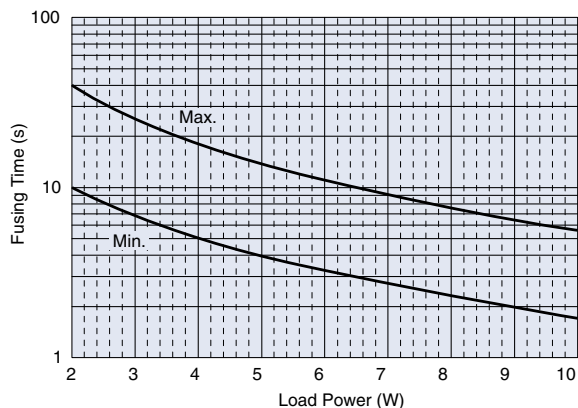
environmental applications

Derating Curve

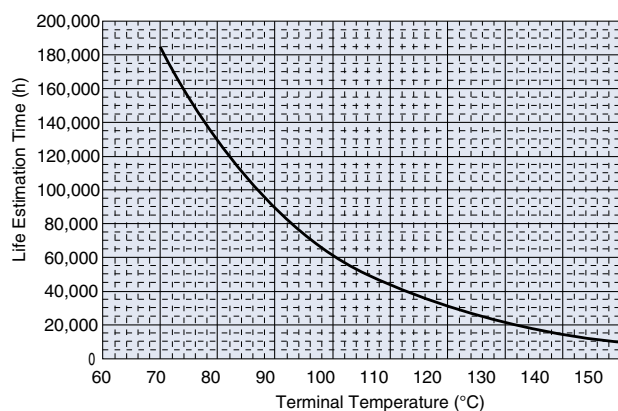


For resistors operated at a terminal temperature of 125°C or above, a power rating shall be derated in accordance with the above derating curve.

Fusing Characteristics



Life Estimation Curve



Performance Characteristics

Parameter	Requirement		Test Method
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+25°C/-40°C and +25°C/+125°C
Fusing Characteristics	Within 6 seconds	—	Rated power x 10
Rapid Change of Temperature	±(5%+0.05Ω)	2%	-40°C/0.5 hr, +125°C/0.5 hr, 1000 cycles
Overload (Short Time)	±(5%+0.05Ω)	2%	Rated power x 2 for 5 seconds
Resistance to Soldering Heat	±(1%+0.05Ω)	0.3%	260°C ± 5°C, 10 ± 1 second
Endurance at 125°C and Less of Terminal Temperature	±(5%+0.05Ω)	3%	Terminal temperature: 125°C, 1.5 hr ON, 0.5 hr OFF cycle, 1000 hours

Mouser Electronics

Authorized Distributor

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[TPR1CTA8R2J](#) [TPR1CTA200J](#) [TPR1CTA360J](#) [TPR1CTA5R1J](#) [TPR1CTA9R1J](#) [TPR1CTA160J](#) [TPR1CTA240J](#)
[TPR1CTA470J](#) [TPR1CTA620J](#) [TPR1CTA151J](#) [TPR1CTA301J](#) [TPR1CTA5601J](#) [TPR1CTA510J](#) [TPR1CTA910J](#)
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[TPR1CTA681J](#) [TPR1CTA2401J](#) [TPR1CTA4R3J](#) [TPR1CTA270J](#) [TPR1CTA101J](#) [TPR1CTA2701J](#) [TPR1CTA2R4J](#)
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