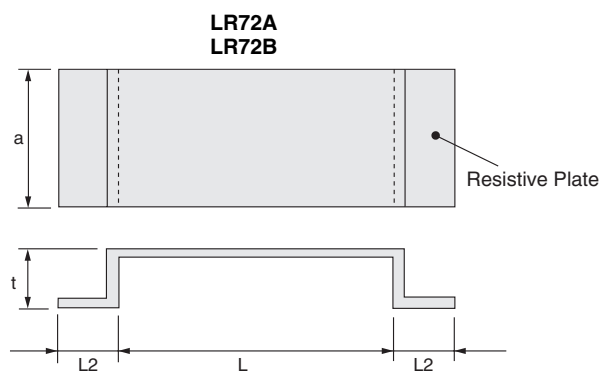


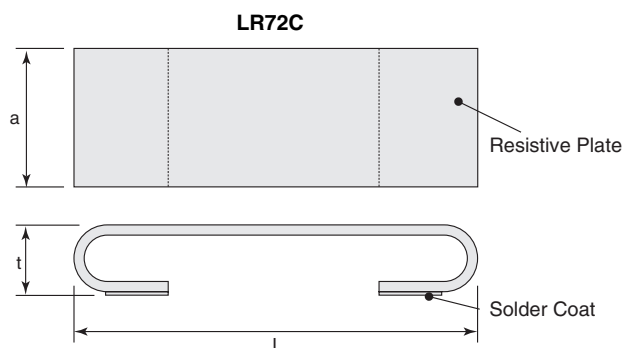
features

- Superior thermal expansion cycling
- Inductance less than 10nH
- Solderable pads (60/40 SnPb plate)
- Lead flexible for thermal expansion
- Products with lead-free terminations meet EU RoHS and China RoHS requirements

dimensions and construction



Size Code	Dimensions inches (mm)			
	L	L2 ^{+0.1} / _{-.02}	W	t
LR72A	.39±.004 (10.0±0.1)	.079 (2.0)	.20±.008 (5.2±0.2)	.079 (2 Max.)
LR72B	.39±.004 (10.0±0.1)	.079 (2.0)	.118±.008 (3.0±0.2)	.079 (2 Max.)
LR72C	.44±.016 (11.2±0.4)	—	.126±.016 (3.2±0.4)	.137±.016 (3.5±0.4)



ordering information

New Part #	LR72	A	D	TE	2L0	J
	Type	Size	Termination Material	Packaging	Nominal Resistance	Tolerance
		A B C	D: SnAgCu (LR72C only) N: CuNi (non-presolder) (LR72A, B only)	TE: 7" embossed plastic (LR72A, B) TEB: 13" embossed plastic (LR72C)	2mΩ: 2L0 "L" indicates the decimal in milliohms	J: ±5%

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

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

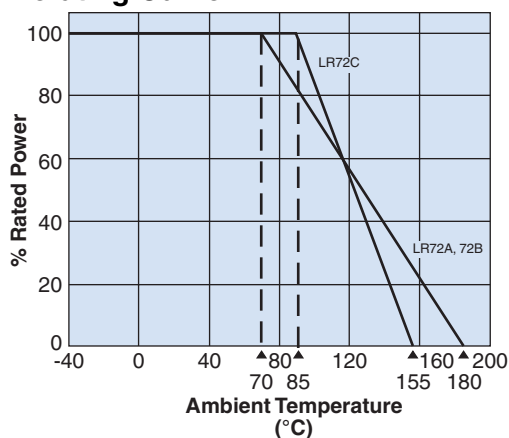
12/20/10

applications and ratings

Part Designation	Power Rating	T.C.R. (ppm/°C) Max.	Standard Resistance	Resistance Tolerance	Rated Ambient Temperature	Operating Temperature Range
LR72A	1/2W @ 25°C	±100	2mΩ ~ 8mΩ	J: ±5%	+70°C	-40°C to +180°C
LR72B	1/4W @ 25°C		3mΩ ~ 5mΩ			
LR72C	1W @ 70°C	±350	2mΩ, 3mΩ		+85°C	-40°C to +155°C

environmental applications

Derating Curve



Performance Characteristics

Parameter	Requirement Δ R ±%		Test Method
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	Room temp. +100°C UP
Resistance to Soldering Heat	±2.0%	±1.6%	350°C ± 10°C, 3 seconds
Moisture Resistance	±5.0%	±4.5%	Power rating x 1/10, 40°C, 90% - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±5.0%	±4.5%	Rated voltage 70°C, 1000 hours 1.5 hr ON, 0.5 hr OFF cycle