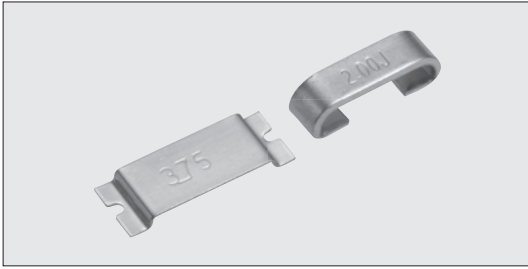
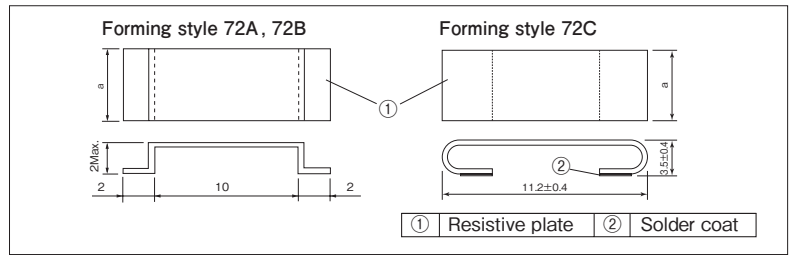


## LR72 Surface Mount Type Custom Milliohm Resistors



### Construction



### Features

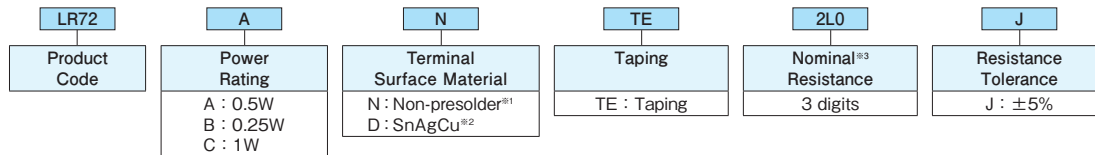
- The super low resistance ( $2\text{m}\Omega \sim$ ) is suitable to sense large current.
- All custom-made products.
- Easy soldering. Applicable for reflow soldering.
- An automatic mounting machine is applicable.
- Products with lead free termination meet EU-RoHS requirements.

### Dimensions

Type	Dimensions (mm)
	a
LR72A	$5.2 \pm 0.2$
LR72B	$3.0 \pm 0.2$
LR72C	$3.2 \pm 0.4$

### Type Designation

Example



※1 Only A and B styles are non-presolder type.

※2 Only C style is SnAgCu type.

※3

Resistance Value ( $\Omega$ )	3 digits
2.5m, 5m, 8m	2L5, 5L0, 8L0

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS.  
For further information on taping, please refer to APPENDIX C on the back pages.

### Ratings

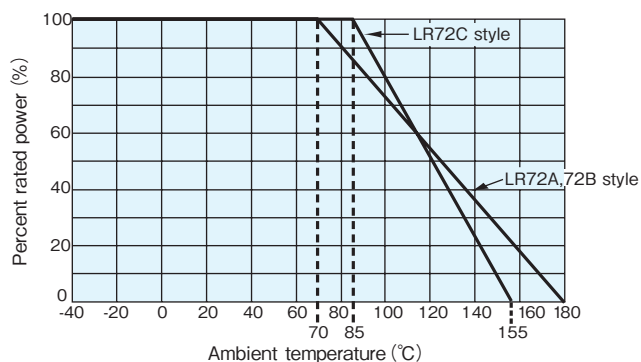
Type	Power Rating <sup>※4</sup>	Resistance Range (m $\Omega$ )	Resistance Tolerance	T.C.R. ( $\times 10^{-5}/\text{K}$ )	Rated Ambient Temp.	Operating Temp. Range	Taping & Q'ty/Reel (pcs)
							TE
LR72A	0.5W	2.5, 5, 8	J : $\pm 5\%$	$\pm 100$	+70 $^{\circ}\text{C}$	-40 $^{\circ}\text{C}$ ~ +180 $^{\circ}\text{C}$	2,000
LR72B	0.25W	3					1,500
LR72C	1W	2, 3					$\pm 350$

※4 Rated power in case of glass epoxy resin (FR-4) is used for the substrate material.

※5 Please consult with us in advance about resistance value for custom-made products.

Other shapes and resistances than the above are also available on request.

## Derating Curve



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

## Performance

Test Items	Performance Requirements $\Delta R \pm \%$		Test Methods
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+ 25°C / + 125°C
Resistance to soldering heat	2	1.6	350°C±10°C, 3s
Moisture resistance	5	4.5	Power rating×1/10, 40°C, 90%~95%RH, 1000h 1.5h ON/0.5h OFF cycle
Endurance at 70°C	5	4.5	Rated voltage, 70°C, 1000h, 1.5h ON/0.5h OFF cycle

## Precautions for Use

- In case of using the low ohm resistors as shunt resistors, please lay out a pattern considering the electromagnetic induction with surrounding inductors.
- In the resistance values of 50mΩ or under, the resistance value after soldering may change depending on the size of pad pattern or solder amount. Make sure the effect of decline/increase of resistance value before designing.