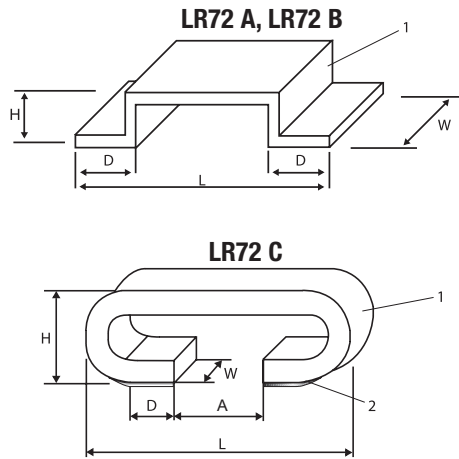


**METAL PLATE  
CURRENT SENSING  
CUSTOMER SPECIFIC  
LR72**



**STRUCTURE**

- 1 Copper Nickel Alloy
- 2 Solder Coat

Products with Pb-free terminations meet EU-RoHS and China-RoHS requirements

**TYPE DESIGNATION (HOW TO ORDER)**

LR	72	A	N	TE	2L0	J	Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS
PRODUCT CODE	SYMBOL	STYLE A, B, C	TERMINATION* SURFACE MATERIAL D: SnAgCu (L: Sn/Pb) N=Non-presolder	TAPING**	NOMINAL RESISTANCE 3 digits	RESISTANCE TOLERANCE J: (±5%)	

\* "A" and "B"-style only with "N"-terminations, "C"-style only with "D" or "L"-terminations.

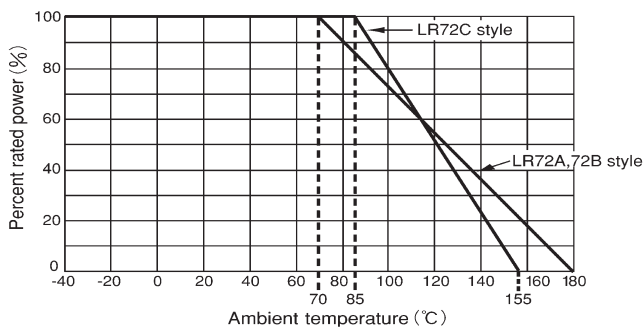
**FEATURES**

- Very low resistances (2 mΩ ...) are suitable for high power current detection in power supplies, motor control units and other current sensing applications
- All custom-made products
- Easy soldering. Suitable for reflow soldering
- Non inductive-type
- Embossed carrier tape packaging available
- LR-72-series is mountable by automatic machines

**DIMENSIONS (mm)**

TYPE	L	W	H	D	A
LR72 A	14 nom.	5.2 ± 0.2	2 max.	2 nom.	—
LR72 B	14 nom.	3.0 ± 0.2	2 max.	2 nom.	—
LR72 C	11.2 ± 0.4	3.2 ± 0.4	3.5 ± 0.4	2.35 ± 0.25	4.8 ± 0.75

**DERATING CURVE**



**RATING**

TYPE	T.C.R. (ppm/K)	POWER RATING*		RATED AMBIENT TEMPERATURE	RESISTANCE RANGE	RESISTANCE TOLERANCE	OPERATING TEMPERATURE RANGE
		GLASS EPOXY PWB (FR-4)	METAL CORE PWB				
LR 72 A	± 100	0.5 W	1.5 W	+70°C	2 mΩ ... 8 mΩ	J (± 5%)	-40°C... +180°C
LR 72 B		0.25 W	0.75 W		3 mΩ, 4 mΩ, 5 mΩ		
LR 72 C	± 350	1 W	—	+85°C	2 mΩ, 3 mΩ, 4 mΩ 5 mΩ, 10 mΩ		-40°C... +155°C

\* For resistors operated at an ambient temperature above the rated temperature, the power rating shall be derated like shown in below "DERATING CURVE".  
Rated power in case of glass epoxy resin (FR-4) is used for the substrate material.  
Rated voltage = √ Power rating x resistance value

Other diameters, shapes and resistance values than the above are also available on request.

**Precautions:**

If these low ohm resistors are used as shunt resistors, please lay out a pattern considering the electromagnetic induction with surrounding inductors. Please note during design, that the voltage drop over these low ohm resistors is dependant on the PCB-layout, the shape and size of the pad pattern, the solder amount and the measuring points.

Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

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