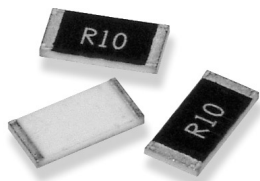


SMD Low Ohmic - Current Sense Resistors

Type RL73 Series

Type RL73 Series



Tyco are pleased to offer this thick film chip resistor for current sensing positions. It has a special metal glaze resistive element and a nickel barrier layer beneath the solder to prolong terminal life. Following the developments by semiconductor manufacturers in the production of a range of IC's for battery charge management and low voltage power supplies, the RL73 Series satisfies the demand for a low ohmic shunt resistor to act as a current sensor.

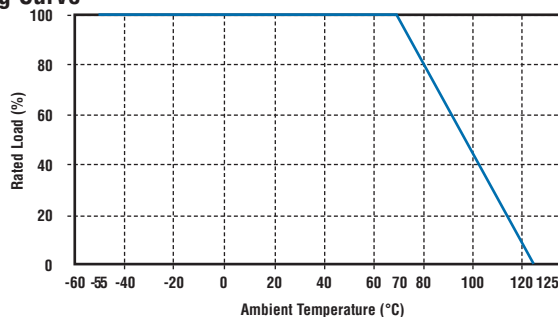
Key Features

- Up to 1 Watt at 70°C
- Values Down to R10
- 7 Chip Sizes
- Ideal for Current Detection
- Value Marked on Resistor
- Lab Kits Available on Request
- Sizes 0402 to 2512
- 0402, 0603, 0805, 1206, 2512 stocked in Distribution

Characteristics - Electrical

Type	T.C.R.	Power Rating @ 70°C	Max. Working Voltage	Max. Overload Voltage	Resistance Range		Taping & Qty Per 7" Reel		
					*F(±1%), E96, E24	G(±2%), J(±5%) E24	TP	TD	TE
RL73N1E	± 300	0.10W	-	-	-	R20 - R91	10000	-	-
RL73N1J	± 300				-	R20 - R91			
RL73H2A	± 100	0.125W	1.11V	2.79V	R20-10R	-	-	5000	-
RL73K2A	± 200				-	R10-10R			
RL73H2B	± 100	0.25W	1.58V	3.95V	R20-10R	-	-	5000	-
RL73K2B	± 200				-	R10-10R			
RL73H2E	± 100	0.5W	2.23V	5.59V	R20-10R	-	-	5000	-
RL73K2E	± 200				-	R10-10R			
RL73H2H	± 100	0.75W	2.73V	6.84V	R20-10R	-	-	-	4000
RL73K2H	± 200				-	R10-10R			
RL73H3A	± 100	1.0W	3.16V	7.90V	R20-10R	-	-	-	4000
*RL73K3A	± 200				-	R10-10R			

Power Derating Curve

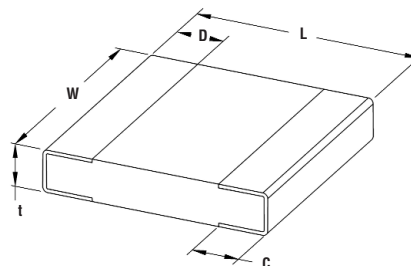


If this device is expected to run at full continuous power then action to improve the cooling should be taken. This can be a metal substrate, copper pad left under the chip, an opening in the PCB or extra large solder pads.

* Recommended Circuit Board Design

For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with this curve.

Dimensions



Part Number	L±0.2	W	C	D ^{+0.2} _{0.1}	t±0.1
RL73 1E	1.0	0.5 ±0.05	0.25 ±0.1	0.2 ±0.1	0.35
RL73 1J	1.6	0.8 ±0.15	0.3 ±0.1	0.3 ±0.2	0.45
RL73 2A	2.0	1.25±0.1	0.4±0.2	0.3	0.5
RL73 2B	3.2	1.6±0.2	0.5±0.3	0.4	0.6
RL73 2E		2.6±0.2			
RL73 2H	5.0	2.5±0.2			
RL73 3A	6.3	3.1±0.2			

How to Order

RL73K	3A	R10	J	TE
Common Part	Rated Power	Resistor Value	Tolerance	Packaging
RL73K - Standard * RL73H - 100ppm/°C * See table Above RL73N - 300ppm/°C	See Above e.g. 3A - 1W	0.1 Ohm (100 milli Ohm) R10 1 Ohm (1000 milli Ohm) 1R0 10 Ohm (10000 milli ohm) 10R	J ±5% G ±2% *F ±1% * See Table Above	TE - 4000 (RL73_3A, RL73_2H Only) TD - 5000 (RL73_2A, RL73_2B, RL73_2E Only) TP - 10,000 (RL73_1E, RL73_1J Only)

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