

CGS WIDE TERMINAL CURRENT SENSE RESISTOR RLW73 SERIES

TE Connectivity (TE)'s CGS Wide Terminal Current Sense Resistor RLW73 is a new series of wide terminal current sensing resistors with reliable multilayer electrode construction. It also offers high purity alumina substrate for high power dissipation, along with long side terminations. TE offers up to 3W in 1225 configuration with resistance values from 10m Ω - 750m Ω . The RLW73 Series is the wide terminal cousin of our successful RL73 series current sense resistor and is offered with flexible volume-based pricing to further enable our customers' needs.

BENEFITS

- Wide terminal SMD suitable for automatic placement and reflow soldering
- For current sensing applications based on very tight precision
- Space and cost savings on the PCB
- High power up to 3W
- Low resistance down to 10m Ω

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APPLICATIONS

- LED lighting
- Robotics
- Automation controls
- BESS & EVI
- Power management
- Over current protection in audio applications
- Voltage Regulation Module (VRM)

KEY FEATURES

- Highly reliable multilayer electrode construction
- High Power to size ratio
- High purity alumina substrate for high power dissipation
- Long side terminations with higher power rating

STANDARD ELECTRICAL SPECIFICATION

	Size Code	Power Rating @70°C (W)	Maximum Operating Current (A)	Resistance Range (mΩ)		TCR (ppm/°C)
				1% E24/E96	5% E24	
RLW73	A2 0508	0.5	7.07	10-27(E24)		±600
				30- 510		±200
RLW73	B2 0612	0.75	8.66	10-27(E24)		±600
				30- 510		±200
RLW73	H2 1020	1.0	10	10-27(E24)		±600
				30- 750		±200
RLW73	A3 1225	1.5	12.24	10-27(E24)		±600
				30- 750		±200

HIGH POWER RATING ELECTRICAL SPECIFICATIONS

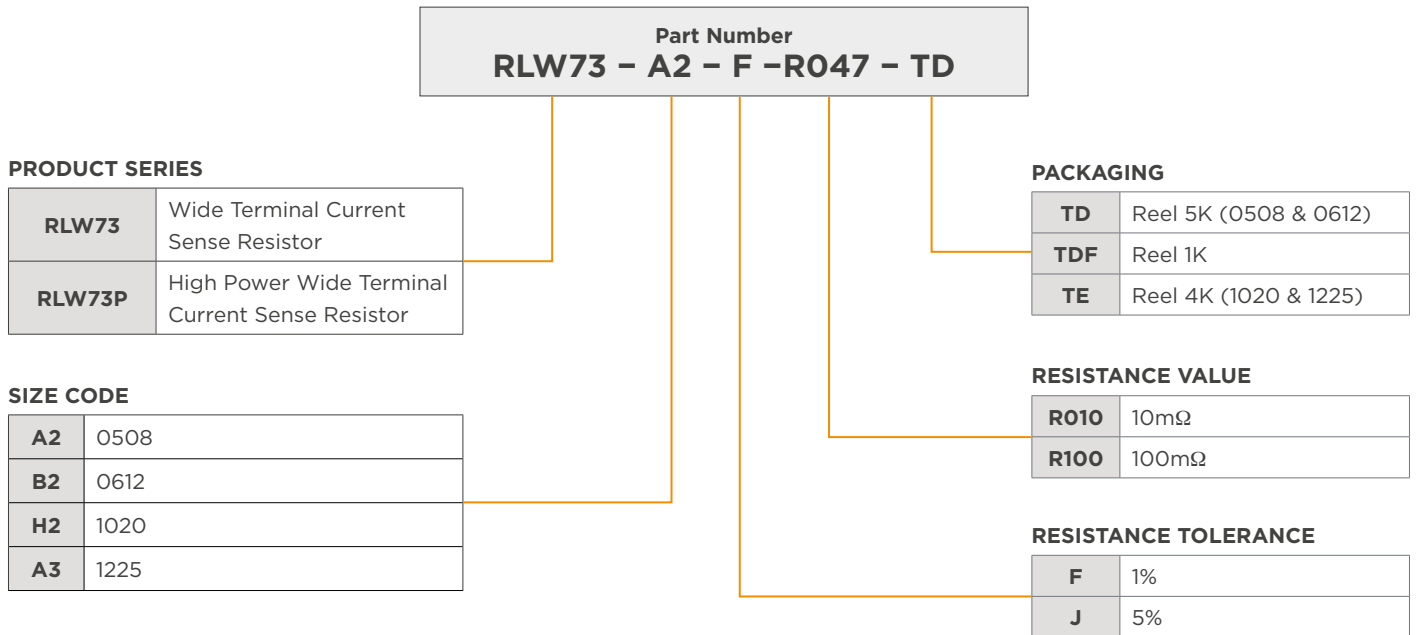
	Size Code	Power Rating @70°C (W)	Maximum Operating Current (A)	Resistance Range (mΩ)		TCR (ppm/°C)
				1% E24/E96	5% E24	
RLW73P	A2 0508	1.0	10	10-27(E24)		±600
				30- 510		±200
RLW73P	B2 0612	1.5	12.2	10-27(E24)		±600
				30- 510		±200
RLW73P	H2 1020	2.0	14.1	10-27(E24)		±600
				30- 750		±200
RLW73P	A3 1225	3.0	17.3	10-27(E24)		±600
				30- 750		±200

Operating Voltage= $\sqrt{P \cdot R}$; Overload Voltage= $2.5 \cdot \sqrt{P \cdot R}$; Operating Current= $\sqrt{P/R}$

- Operating Temperature Range -55 - 155°C
- Storage Temperature: 15-28°C; Humidity < 80%RH
- Shelf Life: 2 years from production date

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ORDERING INFORMATION



SMART PN EXAMPLES

- Product Series: RLW73 - Size Code: A2 - Resistance Tolerance: F - Resistance Value: R010 - Packaging: TD **RLW73A2FR010TD**
- Product Series: RLW73P - Size Code: A3 - Resistance Tolerance: F - Resistance Value: R68 - Packaging: TDF **RLW73PA3FR68TDF**

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