

Type CRL Series



Tyco are pleased to offer this High Power, thick film chip resistor for current sensing positions. It has a special metal glaze resistive element and a barrier layer underneath 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, these resistors satisfy the demand for a low ohmic shunt resistor to act as a current sensor. Unique parallel print enables very low values and high powers for thick film resistors

Key Features

- Up to 1 Watt at 70°C
- Values Down to R01
- Supplied on Tape
- Ideal for Current Detection
- 0.5 Watt by 0805 x 3
- 1 Watt by 0805 x 6

SMD Low Ohmic - Current Sense Resistors



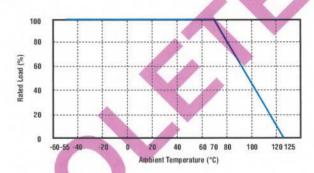
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Characteristics -Electrical

CRL1220 1/4W		CRL3720 1/2W		CRL7520 1W	
2% - 5%	1%	1% - 2%	1% - 2%	1% - 2%	1% - 2%
0~+350ppm/°C	0~+200ppm/°C	0~ +350ppm/°C	0~+200ppm/°C	0~+350ppm/°C	0~+200ppm/°C
E6		E6*		E6*	
±125°C					
±0.5%					
±0.5%					
±0.5%					
±0.5%					
±0.5%					
	1/4 22mΩ-68mΩ 2% - 5% 0~+350ppm/°C	$1/4$ W 22 m $Ω$ - 68 m $Ω$ $0.1Ω$ - $4.7Ω$ $2%$ - $5%$ $1%$ 0 - $+350$ ppm $^{\circ}$ C 0 - $+200$ ppm $^{\circ}$ C	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1/4W 1/2W 22mΩ-68mΩ 0.1Ω-4.7Ω 22mΩ-68mΩ 0.1Ω 2% - 5% 1% 1% - 2% 1% - 2% 0~+350ppm^C 0~+200ppm^C 0~+350ppm^C 0~+200ppm^C E6 E6* ±125°C ±0.5% ±0.5%	1/4W 1/2W 1 22mΩ-68mΩ 0.1Ω-4.7Ω 22mΩ-68mΩ 0.1Ω 10mΩ-68mΩ 2% - 5% 1% 1% - 2% 1% - 2% 1% - 2% 0~+350ppm^C 0~+200ppm^C 0~+350ppm^C 0~+200ppm^C 0~+350ppm^C 0~+350pp

^{*} For 1/2 W Additional Existing Value: R025, R04, R05, R075

Derating Curve

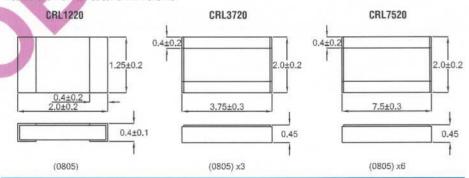


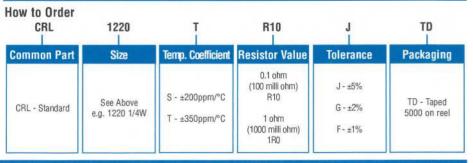
For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve.

Dimensions

Handling Recommendations

When flow soldering - the land width must be smaller than the chip resistor width to control the solder application. Generally, the land width can be chip resistor width \times 0.7 to 0.8. When reflow soldering - The amount of solder can be adjusted. Thus the land width can be set to W \times 1.0 to 1.3.





^{*} For 1 W Additional Existing Value: R018, R02, R025, R04, R05, R075