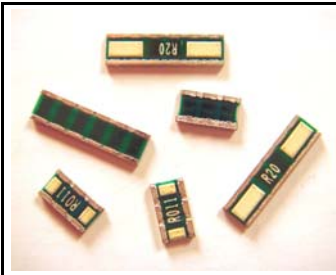


**Product Family:** [Current Sense Chip Resistor \(Long Electrode\)](#)

**Part Number Series:** [RL Series](#)



**Construction:**

- High Purity Alumina Substrate
- Thin-film resistive element
- Wrap around electrodes—long side for higher power handling
- 100% matte tin over Ni terminations (RoHS compliant and Pb Free)

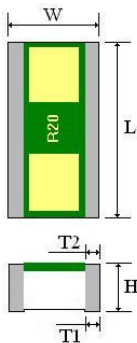
**Features:**

- 1508 and 3008 English sizes
- Power ratings of 1/2W, 1W and 2W
- Tolerances down to 1.0%
- Resistances between 1mΩ ~ 2.2Ω

**Description:**

These thin film low resistance chip resistors exhibit excellent performance in resistance, noise performance, surface heat distribution and a lower surface temperature. Useful in many current sensing applications. Available in power ratings of 1/2, 1.0 and 2.0 watt.

**Product Dimensions:**



Dimension	L	W	H	T1	T2
RL3720 (0815)	0.148 ±0.012	0.079 ±0.008	0.016 ±0.004	0.016 ±0.008	0.016 ±0.008
RL3720W (0815)	0.148 ±0.012	0.079 ±0.008	0.018 +0.006/-0.004	0.016 ±0.008	0.016 ±0.008
RL7520W (0830)	0.295 ±0.012	0.079 ±0.008	0.018 +0.006/-0.004	0.016 ±0.008	0.016 ±0.008

Notes: All dimensions are shown in inches, but use metric size when ordering as shown in the part numbering section. English case sizes are shown in parenthesis above.

**Part Numbering:** Ex: RL3720WRR10F-\*

Product Designator	Metric Size W x L	Temp. Coefficient of Resistance (TCR)	Resistance Value	Resistance Tolerance
RL	3720 (1/2 W) 3720W (1 W) 7520W (2 W)	±50ppm/°C (Q) ±100ppm/°C (R) ±200ppm/°C (S) ±350ppm/°C (T) ±420ppm/°C (T) ±800ppm/°C (T)	Use 3 digit code for all values. "R" denotes decimal position as necessary	±1.0% (F) ±2.0% (G)

\* Note : All part numbers will automatically have a "-C" appended to the end of them to indicate RoHS compliance/Pb Free (RoHS 6/6). This will be automatically assigned by TFT. These parts are not available in non-RoHS.

**Examples:**

Part Number	Size (English)(Power)	TCR	Resistance (ohms)	Tolerance
RL7520WT009G-*	7520 (0830)(2 watt)	T (±420ppm/°C)	009 (0.009 ohm)	G (±2.0%)
RL3720RR10G-*	3720 (0815)(1/2 watt)	R (±100ppm/°C)	R10 (0.10 ohm)	G (±2.0%)
RL3720WRR10F-*	3720W (0815)(1 watt)	R (±100ppm/°C)	R10 (0.10 ohm)	F (±1.0%)

## Electrical Specifications:

Type	RL3720			RL3720W				RL7520W			
English Size	0815			0815				0830			
Power	1/2 Watt			1 Watt				2 Watt			
Tolerance% (code)	±1.0(F) ±2.0(G)			±1.0(F) ±2.0(G)				±1.0(F) ±2.0(G)			
Resistance Range (Ω)	0.010~ 0.018	0.022~ 0.068	0.1~ 2.2	0.001~ 0.004	0.005~ 0.009	0.010~ 0.091	0.1~ 1.0	0.001~ 0.004	0.005~ 0.009	0.010~ 0.091	0.1~ 0.47
Resistance Offering	E-6 Values			1mΩ steps		E-24 Values		1mΩ steps		E-12 Values	
TCR ppm/°C (code)	0~350(T)	0~200(S) 0~350(T)	0~100(R)	0~350(T)	0~200(S) 0~350(T)	0~50(Q) 0~100(R) 0~200(S)	0~200(S) 0~800(T)	0~200(S) 0~420(T)	0~100(R) 0~350(T)	0~50(Q) 0~100(R) 0~200(S)	
Packaging	4,000pcs/reel										

### Note:

- For the Resistance Offerings shown in the table above, if "1mΩ steps" is shown, that indicates that all resistances between the highest and lowest values shown are available with 1 milliohm steps. If "E-## Values" is shown, that indicates that resistances between the highest and lowest values shown are only available in the standard values for that series. A listing of standard E-## values is available on our website.

## Power Derating Curve:

