

## RL series, PRL series <sup>NEW</sup> low resistance value chip resistors with long-side electrodes for high-precision current detection.



Excellent performance in resistance tolerance, noise, long term stability and heat dissipation. Our unique structure enables further miniaturization. This low resistance value chip resistor is useful in many current sensing applications. We offer 1/2, 1, 2 watt power handling thin film resistors.

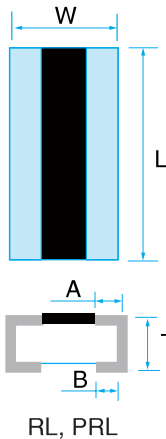
<sup>NEW</sup> PRL1632 are realized as 1W for 3,2 × 1,6mm(1206)

Very low resistance and low ELS, supplying ripple free signals.

RoHS compliant

### SPECIFICATIONS

#### Mechanical



Dimension (Inch Size)	RL3720 (1508)	RL3720W (1508)	RL7520W (3008)
L	3.75±0.30	3.75±0.30	7.50±0.30
W	2.00±0.20	2.00±0.20	2.00±0.20
A	0.40±0.20	0.40±0.20	0.40±0.20
B	0.40±0.20	0.40±0.20	0.40±0.20
T	0.40±0.10	0.45+0.15/-0.10	0.45+0.15/-0.10

(unit: mm)

Dimension (Inch Size)	PRL0816 (0603)	PRL1220 (0805)	PRL1632 (1206)	PRL3264 (2512)
L	1.6±0.2	2.0±0.2	3.2±0.2	6.4±0.2
W	0.8±0.2	1.25±0.2	1.6±0.2	3.2±0.2
B	0.2±0.1	0.35±0.15	0.45±0.15	0.9±0.15
T	0.4±0.1	0.5±0.1	0.5±0.1	0.5±0.1

(unit: mm)

#### Electrical

Type	RL3720		RL3720W				RL7520W					
Power	1/2W		1W				2W					
Tolerance %(code)	±1%(F) ±2%(G)		±1%(F) ±2%(G)				±1%(F) ±2%(G)					
Resistance Range (Ω)	0.01~0.018	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	
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)	0~200(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)	
Resistance Value	E-6		—				E-24		—			
Package	4000pcs/reel											

Type	PRL0816		PRL1220		PRL1632		PRL3264				
Power	1/3W		2/3W		1W		2W				
Tolerance %(code)	±1%(F)	±0.5%(D) ±1%(F)	±2%(G)	±1%(F) ±2%(G)	±0.5%(D) ±1%(F)±2%(G)	±1%(F) ±2%(G)	±0.5%(D) ±1%(F)±2%(G)	±5%(J)	±2%(G)	±1%(F) ±2%(G)	±0.5%(D) ±1%(F)±2%(G)
Resistance Range (Ω)	10m~39m, 25m	43m~100m, 50m	7m~9m	10m~43m	47m~100m	5m~9m	10m~100m, 25m	3m~4m	5m~9m	10m~43m, 1, 25m	47m~100m, 50m
TCR ppm /°C(code)	15mΩ ≥ : 0~350ppm/°C 18m~27mΩ : 0~200ppm/°C 33m~68mΩ : ±100ppm/°C 75m~100mΩ : ±50ppm/°C		7m~9mΩ : 0~350ppm/°C 10m~18mΩ : 0~200ppm/°C 20m~51mΩ : ±100ppm/°C 56m~100mΩ : ±50ppm/°C					9mΩ ≥ : 0~350ppm/°C 10m~18mΩ : 0~200ppm/°C 20m~51mΩ : ±100ppm/°C 56m~100mΩ : ±50ppm/°C			
Resistance Value	E-24										
Package	1,000pcs/reel(T1) 5,000pcs/reel(T5)										

· PRL series with resistance value more than 100m ohm are also available.

### PART NUMBER

**RL 3720W T - R10 - F - (T1)** — Taping Quantity Unit: PRL: T1(1000pcs) T5(5000pcs)

Resistance Tolerance  
Resistance Value: RL series: 3 digits, PRL series: 4 digits  
Temperature Coefficient of Resistance: To be added as for RL series  
Dimensions  
Part Code