

RL series, PRL series ^{NEW} 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.

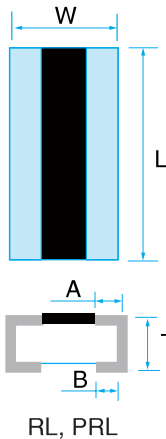
^{NEW} PRL1632 are realized as 1W for 3,2 × 1,6mm(1206)

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) | 0~200(S) | 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

