



Metal foil low resistance chip resistors (4 terminal type)

■ KRL series

AEC-Q200 Compliant

Features

- Separated voltage terminal for precise measurement of voltage
- TCR stable at very low resistance: $4\text{m}\Omega$: $\pm 50\text{ppm}/^\circ\text{C}$
- Power ratings: 1W ~ 5W

Applications

- Smartphones, mobile telephones, PCs, HDD, audio visual equipment, power devices, inverters.
- automotive electronics, industrial measurement instrumentation/equipment.



◆ Part numbering system

KRL 3216T4 - M - R010 - F - T1
(KRL 3216T4A - M - R010 - F - T1)

Series code

Size: KRL3216T4, KRL6432T4, KRL7638T4
KRL9045T4, KRL11050T4,

Temperature characteristics type: M (low EMF)

Packaging quantity:
T1(1,000pcs), T5(5,000pcs)

Resistance tolerance

Nominal resistance value

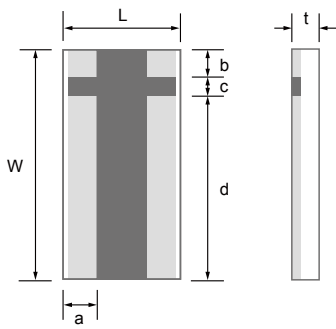
◆ Electrical Specification

| Type | Power ratings | Temperature coefficient of resistance (ppm/ $^\circ\text{C}$) | Resistance range(Ω) ^{*1} Resistance tolerance | | | Resistance value series | Operating temperature | Packaging quantity |
|---------------------------|---------------|---|--|---------------|---------------|-------------------------|--|--------------------|
| | | | $\pm 1\%$ (F) | $\pm 2\%$ (G) | $\pm 5\%$ (J) | | | |
| KRL3216T4 (KRL3216T4A) | 1W | ± 50 (± 35) | $4\text{m}\leq R\leq 9\text{m}$ (1m step) $10\text{m}\leq R\leq 100\text{m}$ $R=200\text{m}, 500\text{m}$ | — | — | E6 ^{*2} | $-55^\circ\text{C} \sim 155^\circ\text{C}$ (Code M) | T1 T5 |
| | | ± 100 (± 75) | $R=3\text{m}$ | $R=2\text{m}$ | $R=1\text{m}$ | | | |
| KRL6432T4 | 2W | ± 50 | $4\text{m}\leq R\leq 9\text{m}$ (1m step) $10\text{m}\leq R\leq 100\text{m}$ $R=200\text{m}, 500\text{m}$ | — | — | | | |
| | | ± 100 | $R=3\text{m}$ | $R=2\text{m}$ | $R=1\text{m}$ | | | |
| KRL7638T4 | 3W | ± 50 | $4\text{m}\leq R\leq 9\text{m}$ (1m step) $10\text{m}\leq R\leq 100\text{m}$ $R=200\text{m}, 500\text{m}$ | — | — | | | |
| | | ± 100 | $R=3\text{m}$ | $R=2\text{m}$ | $R=1\text{m}$ | | | |
| KRL9045T4 | 4W | ± 50 | $4\text{m}\leq R\leq 9\text{m}$ (1m step) $10\text{m}\leq R\leq 100\text{m}$ $R=200\text{m}, 500\text{m}$ | — | — | | | |
| | | ± 100 | $R=3\text{m}$ | $R=2\text{m}$ | $R=1\text{m}$ | | | |
| KRL11050T4 | 5W | ± 50 | $4\text{m}\leq R\leq 9\text{m}$ (1m step) $10\text{m}\leq R\leq 100\text{m}$ $R=200\text{m}, 500\text{m}$ | — | — | | | |
| | | ± 100 | $R=3\text{m}$ | $R=2\text{m}$ | $R=1\text{m}$ | | | |

*1 We can meet your requirement of less than 1m Ω . Please contact our sales office.

*2 We can meet your requirement of resistance value outside of E-6 series. Please contact our sales office.

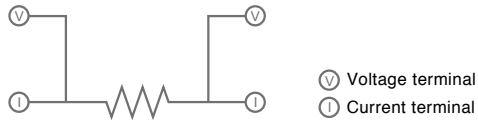
◆ Dimensions



| Type | Size (inch) | L | W | a | b | c | d | t |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| KRL3216T4 | 1206 | 1.60±0.20 | 3.20±0.20 | 0.35±0.20 | 0.35±0.15 | 0.20±0.10 | 2.65±0.15 | 0.50±0.20 |
| KRL6432T4 | 2512 | 3.20±0.20 | 6.40±0.20 | 0.50±0.20 | 0.70±0.15 | 0.50±0.10 | 5.20±0.15 | 0.50±0.20 |
| KRL7638T4 | 3015 | 3.80±0.20 | 7.60±0.20 | 0.55±0.20 | 0.80±0.20 | 0.60±0.20 | 6.20±0.10 | 0.50±0.20 |
| KRL9045T4 | 3518 | 4.50±0.20 | 9.00±0.20 | 0.50±0.20 | 0.70±0.20 | 0.50±0.20 | 5.20±0.10 | 0.50±0.20 |
| KRL11050T4 | 4320 | 5.00±0.20 | 11.0±0.20 | 0.70±0.20 | 1.40±0.20 | 1.10±0.20 | 8.50±0.10 | 0.50±0.20 |

(unit : mm)

◆ Circuit diagram



◆ Derating Curve

