



# 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: 4mΩ: ±50ppm/°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)

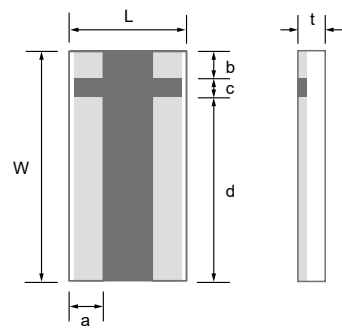
|                                                                 |                                                   |
|-----------------------------------------------------------------|---------------------------------------------------|
| Series code                                                     | Packaging quantity:<br>T1(1,000pcs), T5(5,000pcs) |
| Size: KRL3216T4, KRL6432T4, KRL7638T4<br>KRL9045T4, KRL11050T4, | Resistance tolerance                              |
| Temperature characteristics type: M (low EMF)                   | Nominal resistance value                          |

◆Electrical Specification

| Type                      | Power ratings | Temperature coefficient of resistance | Resistance range(Ω) Resistance tolerance           |         | Resistance value series | Operating temperature | Packaging quantity      |
|---------------------------|---------------|---------------------------------------|----------------------------------------------------|---------|-------------------------|-----------------------|-------------------------|
|                           |               | (ppm/°C)                              | ±1% (F)                                            | ±2% (G) | ±5% (J)                 |                       |                         |
| KRL3216T4<br>(KRL3216T4A) | 1W            | ±50<br>(±35)                          | 4m≤R≤9m<br>(1m step)<br>10m≤R≤100m<br>R=200m, 500m | —       | —                       | E6 <sup>*2</sup>      | -55℃ ~ 155℃<br>(Code M) |
|                           |               | ±100 (±75)                            | R=3m                                               | R=2m    | R=1m                    |                       |                         |
| KRL6432T4                 | 2W            | ±50                                   | 4m≤R≤9m<br>(1m step)<br>10m≤R≤100m<br>R=200m, 500m | —       | —                       |                       |                         |
|                           |               | ±100                                  | R=3m                                               | R=2m    | R=1m                    |                       |                         |
| KRL7638T4                 | 3W            | ±50                                   | 4m≤R≤9m<br>(1m step)<br>10m≤R≤100m<br>R=200m, 500m | —       | —                       |                       |                         |
|                           |               | ±100                                  | R=3m                                               | R=2m    | R=1m                    |                       |                         |
| KRL9045T4                 | 4W            | ±50                                   | 4m≤R≤9m<br>(1m step)<br>10m≤R≤100m<br>R=200m, 500m | —       | —                       |                       |                         |
|                           |               | ±100                                  | R=3m                                               | R=2m    | R=1m                    |                       |                         |
| KRL11050T4                | 5W            | ±50                                   | 4m≤R≤9m<br>(1m step)<br>10m≤R≤100m<br>R=200m, 500m | —       | —                       |                       |                         |
|                           |               | ±100                                  | R=3m                                               | R=2m    | R=1m                    |                       |                         |

\*1 We can meet your requirement of less than 1mΩ. Please contact our sales office.  
\*2 We can meet your requirement of resistance value outside of E-6 series. Please contact our sales office.

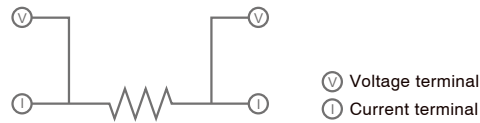
◆Dimensions



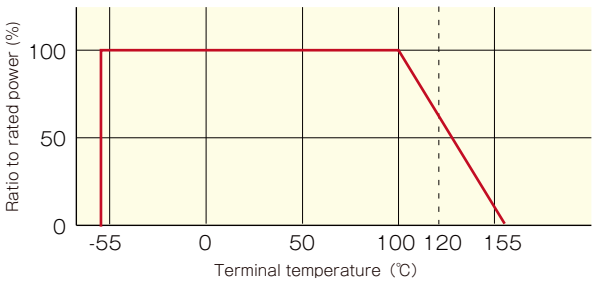
| Type       | Size (inch) | L         | W         | a         | b         | c         | d         | t         |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| KRL3216T4  | 1206        | 1.60±0.20 | 3.20±0.20 | 0.35±0.20 | 0.35±0.15 | 0.20±0.10 | 2.65±0.15 | 0.50±0.20 |
| KRL3216T4A | 1206        | 1.60±0.20 | 3.20±0.20 | 0.45±0.20 | 0.50±0.20 | 0.50±0.20 | 2.20±0.20 | 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



Current sensing surface mount resistors  
KRL series

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Susumu:

[KRL3216T4-M-R100-F-T1](#) [KRL6432T4-M-R001-F-T1](#) [KRL6432T4-M-R010-F-T1](#) [KRL3216T4-M-R200-F-T1](#)  
[KRL6432T4-M-R004-F-T1](#) [KRL3216T4-M-R001-F-T1](#) [KRL6432T4-M-R003-F-T1](#) [KRL6432T4-M-R002-F-T1](#)  
[KRL6432T4-M-R100-F-T1](#) [KRL3216T4-M-R002-F-T1](#) [KRL3216T4-M-R500-F-T1](#) [KRL6432T4-M-R500-F-T1](#)  
[KRL3216T4-M-R003-F-T1](#) [KRL3216T4-M-R005-F-T1](#) [KRL3216T4-M-R007-F-T1](#) [KRL6432T4-M-R005-F-T1](#)  
[KRL6432T4-M-R007-F-T1](#) [KRL6432T4-M-R008-F-T1](#) [KRL3216T4-M-R008-F-T1](#) [KRL3216T4-M-R009-F-T1](#)  
[KRL3216T4-M-R004-F-T1](#) [KRL3216T4-M-R010-F-T1](#) [KRL3216T4-M-R006-F-T1](#) [KRL6432T4-M-R009-F-T1](#)  
[KRL6432T4-M-R006-F-T1](#) [KRL3216T4A-M-R002-G-T1](#) [KRL3216T4A-M-R002-G-T5](#) [KRL3216T4A-M-R003-F-T1](#)  
[KRL3216T4A-M-R003-F-T5](#) [KRL3216T4A-M-R001-G-T5](#) [KRL3216T4A-M-R001-G-T1](#)