



# Metal foil low resistance chip resistors (short-side terminal)

■KRL series

AEC-Q200 Compliant

## Features

- High current sensing short side terminal low resistance chip resistor
- Two types available: high temperature (operating temperature up to 175°C), low emf type (operating temperature up to 155°C).
- High current handling capability and wide range of power ratings
- Size: 0510 ~ 50110, power ratings: 0.2W ~ 5W, resistance value range: 5m ~ 1000mΩ
- Face down construction. Choice between bottom only or wrap around terminal

## Applications

- Automotive electronics
- Power source devices, ACDC converters, DCDC converters
- Motors, inverters, office automation equipment

## ◆Part numbering system

Series code

Size: KRL0510, KRL0816, KRL1220, KRL1632  
KRL2550, KRL3264, KRL50110

Terminal type: D (bottom terminal), E (wrap around terminal)

KRL 1220E - C - R010 - F - T1

Nominal resistance value

Temperature characteristics type:  
C (high operating temperature), M (low EMF)

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

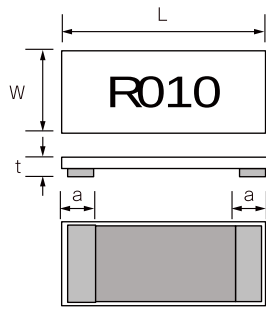
Resistance tolerance

## ◆Electrical Specification

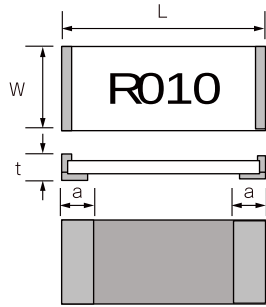
| Type     | Power ratings | Temperature coefficient of resistance | Resistance range(Ω) Resistance tolerance |                       | Resistance value series  | Operating temperature |               | Packaging quantity |
|----------|---------------|---------------------------------------|------------------------------------------|-----------------------|--------------------------|-----------------------|---------------|--------------------|
|          |               | (ppm/°C)                              | ±1% (F)                                  | ±2% (G)               |                          | C                     | M             |                    |
| KRL0510  | 0.2W          | ±50<br>±100                           | 50m≤R≤100m                               |                       | E-6 / E-12 <sup>*2</sup> | -55°C ~ 175°C         | -55°C ~ 155°C | 10,000pcs          |
| KRL0816  | 0.3W          | ±50<br>±100                           | 10m≤R≤500m                               | —<br>5m≤R≤9m(1m step) |                          |                       |               | T1<br>T5           |
| KRL1220  | 0.5W          | ±50<br>±100                           | 10m≤R≤500m                               | —<br>5m≤R≤9m(1m step) |                          |                       |               |                    |
| KRL1632  | 0.75W         | ±50<br>±100                           | 10m≤R≤500m                               | —<br>5m≤R≤9m(1m step) |                          |                       |               |                    |
| KRL2550  | 1.5W          | ±50<br>±100                           | 10m≤R≤500m                               | —<br>5m≤R≤9m(1m step) |                          |                       |               |                    |
| KRL3264  | 2W            | ±50<br>±100                           | 10m≤R≤1000m                              | —<br>5m≤R≤9m(1m step) |                          |                       |               |                    |
| KRL50110 | 5W            | ±50<br>±100                           | 10m≤R≤1000m                              | —<br>5m≤R≤9m(1m step) |                          |                       |               | T1                 |

\*1 We can meet your requirement for resistance value not specified in above table. Please contact our sales office.  
 \*2 We can meet your requirement outside of E-6/E-12 series resistance. Please contact our sales office.

◆Dimensions



D Type

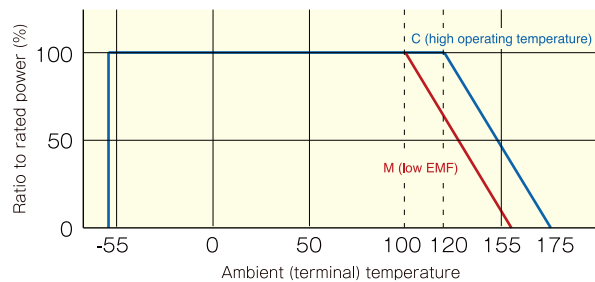


E Type

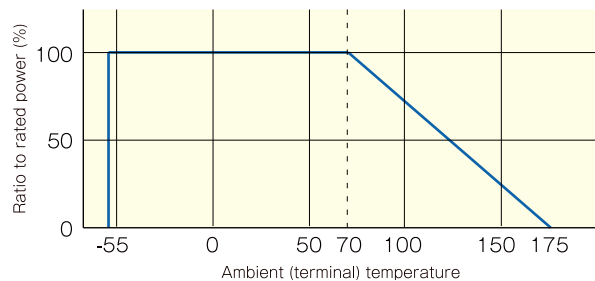
| Type     | Size (inch) | L          | W         | t         | a                                  |
|----------|-------------|------------|-----------|-----------|------------------------------------|
| KRL0510  | 0402        | 1.00±0.20  | 0.50±0.20 | 0.40±0.20 | 0.30±0.20                          |
| KRL0816  | 0603        | 1.60±0.20  | 0.80±0.20 | 0.50±0.20 | 0.30±0.20                          |
| KRL1220  | 0805        | 2.00±0.20  | 1.25±0.20 | 0.50±0.20 | 0.40±0.20                          |
| KRL1632  | 1206        | 3.20±0.20  | 1.60±0.20 | 0.50±0.20 | 0.40±0.20(9mΩ~)/1.10±0.20(5 ~ 8mΩ) |
| KRL2550  | 2010        | 5.00±0.20  | 2.50±0.20 | 0.50±0.20 | 0.60±0.20(9mΩ~)/1.40±0.20(5 ~ 8mΩ) |
| KRL3264  | 2512        | 6.30±0.20  | 3.10±0.20 | 0.50±0.20 | 1.00±0.20(9mΩ~)/1.90±0.20(5 ~ 8mΩ) |
| KRL50110 | 4320        | 11.00±0.20 | 5.00±0.20 | 0.65±0.20 | 2.36±0.20(8mΩ~)/3.60±0.20(5 ~ 7mΩ) |

(unit : mm)

◆Derating Curve



KRL1632E-3A series (1W) and KRL3264E-3F series (3W) are also in our line-up.



# Mouser Electronics

Authorized Distributor

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## Susumu:

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