



**Fixed metal foil** *Foil type KRL series,  
low resistance value chip resistors*  
**Face down mounting**

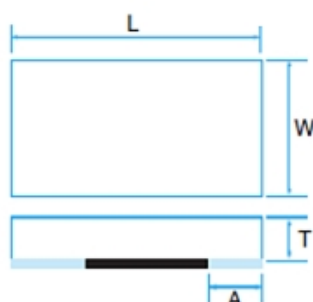


KRL series are offered for use as high temp. 170°C and Thermal EMF.  
Face down mounting provides accurate the sensing performance, and excellent  
tight resistance tolerance of 1% and TCR of 50ppm.

## SPECIFICATIONS

### Mechanical

#### Short Side Termination

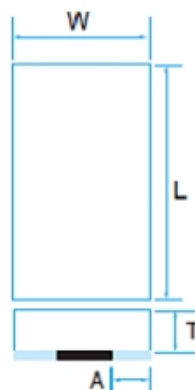


Operations temperature, -55~170°C high stability.  
Tight resistance tolerance of  $\pm 1\%$ , and TCR of  $\pm 50$ ppm.

| Dimensions (mm)        | KRL1220         | KRL1632        | KRL3264         |
|------------------------|-----------------|----------------|-----------------|
| L                      | 2.0 $\pm$ 0.20  | 3.2 $\pm$ 0.20 | 6.3 $\pm$ 0.20  |
| W                      | 1.25 $\pm$ 0.20 | 1.6 $\pm$ 0.20 | 3.1 $\pm$ 0.20  |
| T                      | 0.5 $\pm$ 0.20  | 0.5 $\pm$ 0.20 | 0.5 $\pm$ 0.20  |
| A (5.0~7.0m $\Omega$ ) | 0.4 $\pm$ 0.20  | 1.10 $\pm$ 0.2 | 1.90 $\pm$ 0.20 |
| A (8.0m $\Omega$ ~)    |                 | 0.4 $\pm$ 0.20 | 1.0 $\pm$ 0.20  |

### Mechanical

#### Long Side Termination



| Dimensions (mm)   | KRL2012         | KRL3216         | KRL6432         | KRL7638         | KRL9045         | KRL11050        |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| L                 | 2.0 $\pm$ 0.20  | 3.2 $\pm$ 0.20  | 6.3 $\pm$ 0.20  | 7.6 $\pm$ 0.20  | 8.9 $\pm$ 0.20  | 11.0 $\pm$ 0.20 |
| W                 | 1.25 $\pm$ 0.20 | 1.6 $\pm$ 0.20  | 3.1 $\pm$ 0.20  | 3.8 $\pm$ 0.20  | 4.5 $\pm$ 0.20  | 5.0 $\pm$ 0.20  |
| T                 | 0.5 $\pm$ 0.20  | 0.5 $\pm$ 0.20  | 0.5 $\pm$ 0.20  | 0.5 $\pm$ 0.20  | 0.5 $\pm$ 0.20  | 0.5 $\pm$ 0.20  |
| A (1m $\Omega$ )  | 0.55 $\pm$ 0.20 | 0.60 $\pm$ 0.20 | 1.20 $\pm$ 0.20 | 1.35 $\pm$ 0.20 | 1.60 $\pm$ 0.20 | 1.80 $\pm$ 0.20 |
| A (2m $\Omega$ )  | 0.40 $\pm$ 0.20 | 0.40 $\pm$ 0.20 | 0.50 $\pm$ 0.20 | 0.60 $\pm$ 0.20 | 0.70 $\pm$ 0.20 | 0.80 $\pm$ 0.20 |
| A (3m $\Omega$ ~) | 0.30 $\pm$ 0.20 | 0.30 $\pm$ 0.20 |                 |                 |                 |                 |

### Electrical

| Type                          | KRL1220  | KRL1632                                      | KRL3264 |
|-------------------------------|----------|----------------------------------------------|---------|
| Power                         | 0.3W     | 0.5W                                         | 1.0W    |
| Resistance Range ( $\Omega$ ) | 10m~100m | 5m~100m                                      |         |
| Tolerance (%) (code)          |          | 5~9m : $\pm 2.0$ (G)<br>10m~ : $\pm 1.0$ (F) |         |
| TCR ppm /°C (ppm/°C)          |          | 5~9m : $\pm 100$<br>10m~ : $\pm 50$          |         |
| Operating Temp. Rating        |          | C : -55~170°C<br>M : -55~155°C               |         |

### Electrical

| Type                          | KRL2012 | KRL3216                                                         | KRL6432 | KRL7638 | KRL9045 | KRL11050 |
|-------------------------------|---------|-----------------------------------------------------------------|---------|---------|---------|----------|
| Power                         | 0.5W    | 1.0W                                                            | 2.0W    | 3.0W    | 4.0W    | 5.0W     |
| Resistance Range ( $\Omega$ ) | 1m~50m  | 1m~100m                                                         |         |         |         |          |
| Tolerance (code)              |         | 1m : $\pm 5.0$ (J)<br>2m : $\pm 2.0$ (G)<br>3m~ : $\pm 1.0$ (F) |         |         |         |          |
| TCR R ppm /°C                 |         | 1m : $\pm 150$<br>2m : $\pm 100$<br>3m~ : $\pm 50$              |         |         |         |          |
| Operating Temp. Rating        |         | C : -55~170°C<br>M : -55~155°C                                  |         |         |         |          |

## PART NUMBER

**KRL 6432 - C - R010 - F - T1**

- Taping Quantity Unit: T1(1000pcs) T5(5000pcs)
- Resistance Tolerance
- Resistance
- Operating Temp. Range: C (For High Temp 170°C)  
M (For Thermal EMF)
- Dimensions
- Part Code