

## Precision current sensing low resistance chip resistors Metal foil, long-side terminal/ short-side terminal, face down. KRL series



Two types are available: for high temperature application (up to 170°C) and for low thermal emf application. Excellent TCRs:  $\pm 150\text{ppm}/^\circ\text{C}$  for 1m $\Omega$ ,  $\pm 100\text{ppm}/^\circ\text{C}$  for 2m $\Omega$ ,  $\pm 50\text{ppm}/^\circ\text{C}$  for 3m $\Omega$ . Face down mounting offers accurate sensing. Depending on customers' applications, we offer long-side terminal type and short-side terminal type ranging from 1/3W to 5W power rating. Protective coating used is halogen free showing our commitment to environment.

RoHS compliant

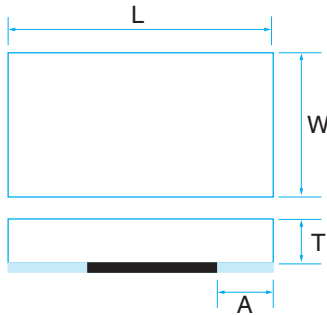
Completely lead free



### SPECIFICATIONS

#### Mechanical

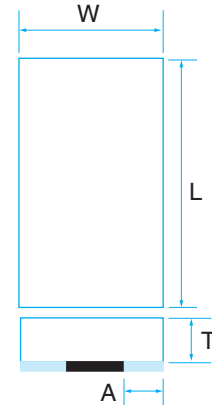
##### Short-side terminal



| 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 $\Omega$ ) | $0.4 \pm 0.20$  | $1.10 \pm 0.20$ | $1.90 \pm 0.20$ |
| A (8.0m $\Omega$ ~)    |                 | $0.4 \pm 0.20$  | $1.0 \pm 0.20$  |

#### Mechanical

##### Long-side terminal



| 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(Ω)   | 10m~100m                           | 5m~100m |         |
| Tolerance %<br>(code) | 5~9m : ±2.0 (G)<br>10m~ : ±1.0 (F) |         |         |
| TCR ppm /°C           | 5~9m : ±100<br>10m~ : ±50          |         |         |
| Operating Temp. Range | C : -55~170°C<br>M : -55~155°C     |         |         |

· Contact our sales office for wrap around terminal ERL series.

#### Electrical

| Type                  | KRL2012                                          | KRL3216 | KRL6432 | KRL7638 | KRL9045 | KRL11050 |
|-----------------------|--------------------------------------------------|---------|---------|---------|---------|----------|
| Power                 | 0.66W                                            | 1.0W    | 2.0W    | 3.0W    | 4.0W    | 5.0W     |
| Resistance Range(Ω)   | 1m~50m                                           |         | 1m~100m |         |         |          |
| Tolerance %<br>(code) | 1m : ±5.0 (J)<br>2m : ±2.0 (G)<br>3m~ : ±1.0 (F) |         |         |         |         |          |
| TCR ppm /°C           | 1m : ±150<br>2m : ±100<br>3m~ : ±50              |         |         |         |         |          |
| Operating Temp. Range | C : -55~170°C<br>M : -55~155°C                   |         |         |         |         |          |



### PART NUMBER

## KRL 6432 - C - R010 - F - T1

Package  
(T1:1000pcs/reel, T5:5000pcs/reel)  
Resistance Tolerance  
Resistance Value  
Operating Temperature :  
C (high temperature application)  
M (low thermal emf application)  
Dimensions  
Part Code