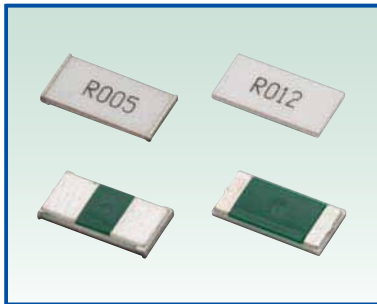


# Metal foil low resistance chip resistors (short-side terminals type)

■ KRL series

AEC-Q200 Compliant



## Features

- The C type utilizes materials that withstand high temperatures and can be operated up to 175°C. The M type utilizes low emf materials that are stable up to 155°C. TCR is very stable for very low resistance: +/-100ppm/°C for 5mΩ ~ 9mΩ, and +/-50ppm/°C for 10mΩ ~ . Face down mounting allows for accurate current measurement. Power ratings from 1/3W to 5W are offered to meet customers' specific requirements. The protective outer coating is halogen free in consideration of the environment.

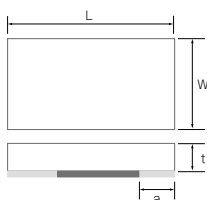
## Applications

- PCs, hard drive discs, audio visual equipments, power sources, inverters, automotive electronics, industrial machining equipments, industrial test and measurements, etc.

## Specifications

\* All made to order.

### Dimensions



Dimensions (mm)	KRL0816 (0603)	KRL1220 (0805)	KRL1632 (1206)	KRL3264 (2512)	KRL50110 (4320)
L	1.60±0.20	2.00±0.20	3.20±0.20	6.30±0.20	11.0±0.20
W	0.80±0.20	1.25±0.20	1.60±0.20	3.10±0.20	5.00±0.20
t	0.50±0.20	0.50±0.20	0.50±0.20	0.50±0.20	0.65±0.20
a (5.0~7.0mΩ)	—	0.40±0.20	1.10±0.20	1.90±0.20	3.60±0.30
a (8.0mΩ~)	—		0.50±0.20	1.00±0.20	2.36±0.30
a (9.0mΩ~)	0.30±0.20	—	—	—	—

### Electrical characteristics

Series name	KRL0816	KRL1220		KRL1632		KRL3264		KRL50110	
Power	0.3W	1/2W		3/4W		2W		5W	
E series offered	E-12	1mΩ STEP	E-12	1mΩ STEP	E-12	1mΩ STEP	E-12	1mΩ STEP	E-12
Resistance range (Ω)	10m~100m	5m~9m	10m~500m	5m~9m	10m~500m	5m~9m	10m~1000m	5m~9m	10m~1000m
Resistance tolerance (%)	±1.0(F)	○	—	○	—	○	—	○	—
	±2.0(G)	—	○	—	○	—	○	—	○
Temperature coefficient of resistance (ppm/°C)	±50	○	—	○	—	○	—	○	—
	±100	—	○	—	○	—	○	—	○
Operating temperature	C	-55°C~175°C							
	M	-55°C~155°C							
Rated ambient temperature (at terminals)	C	120°C or less							
	M	100°C or less							
Packaging	1,000pcs	○	○	○	○	○	○	○	○
	5,000pcs	○	○	○	○	○	○	○	—

## Part numbering system

**KRL 1220E-C-R010-F-T1**

- Packaging: T1 (1000pieces) T5 (5000pieces)
- Resistance tolerance
- Resistance value
- Operating temperature: C (High temperature type) M (Low emf type)
- Lap electrode type: D (Bottom electrode) E (U-shape electrode)
- Size
- Series code