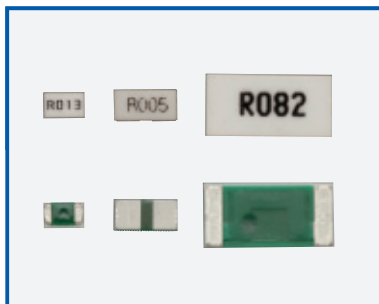


Metal foil low resistance chip resistors (short-side terminals)

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: $\pm 100\text{ppm}/^\circ\text{C}$ for $5\text{m}\Omega \sim 9\text{m}\Omega$, and $\pm 50\text{ppm}/^\circ\text{C}$ for $10\text{m}\Omega \sim$. Face down mounting allows for accurate current measurement. Long and short side terminal types, as well as 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.

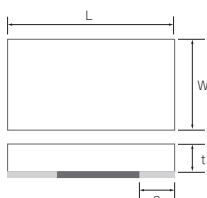
Applications

- 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 ~ 7.0m Ω)	—	0.40 ± 0.20	1.10 ± 0.20	1.90 ± 0.20	3.60 ± 0.30
a (8.0m Ω ~)	—		1.10 ± 0.20	1.90 ± 0.20	3.60 ± 0.30
a (9.0m Ω ~)	0.30 ± 0.20	—	0.50 ± 0.20	1.00 ± 0.20	2.36 ± 0.30

Electrical characteristics

Series name	KRL0816	KRL1220		KRL1632		KRL3264		KRL50110	
Power	0.3W	1/2W		3/4W		2W		5W	
E series offered	E-12	E-12		1m Ω STEP	E-12	1m Ω STEP	E-12	1m Ω STEP	E-12
Resistance range (Ω)	10m ~ 100m	5m ~ 9m	10m ~ 100m	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/ $^\circ\text{C}$)	± 50	○	—	○	—	○	—	○	—
	± 100	—	○	—	○	—	○	—	○
Operating temperature	C	$-55^\circ\text{C} \sim 175^\circ\text{C}$							
	M	$-55^\circ\text{C} \sim 155^\circ\text{C}$							
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