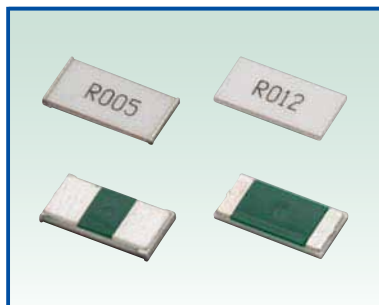


Metal foil low resistance chip resistors (short-side terminals type)

■ 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: $\pm 100\text{ppm}/^\circ\text{C}$ 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. 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.

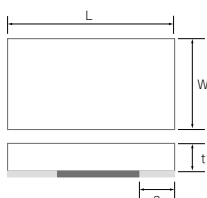
Applications

- 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	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/℃)	±50	○	—	○	—	○	—	○	—	○
	±100	—	○	—	○	—	○	—	○	—
Operating temperature	C	-55℃~175℃								
	M	-55℃~155℃								
Rated ambient temperature (at terminals)	C	120℃ or less								
	M	100℃ 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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Susumu:

[KRL1632E-M-R470-F-T5](#) [KRL1220E-M-R220-F-T5](#) [KRL1632E-M-R270-F-T5](#) [KRL1632E-M-R068-F-T5](#) [KRL1632E-M-R010-F-T5](#) [KRL1220E-M-R120-F-T5](#) [KRL1220E-M-R006-G-T5](#) [KRL1220E-M-R033-F-T5](#) [KRL1632E-M-R039-F-T5](#) [KRL1220E-M-R018-F-T5](#) [KRL1632E-M-R056-F-T5](#) [KRL1220E-M-R100-F-T5](#) [KRL1220E-M-R180-F-T5](#) [KRL1220E-M-R015-F-T5](#) [KRL1632E-M-R009-G-T5](#) [KRL1220E-M-R012-F-T5](#) [KRL1632E-M-R007-G-T5](#) [KRL1220E-M-R010-F-T5](#) [KRL1632E-M-R390-F-T5](#) [KRL1632E-M-R005-G-T5](#) [KRL1632E-M-R033-F-T5](#) [KRL1220E-M-R390-F-T5](#) [KRL1220E-M-R009-G-T5](#) [KRL1632E-M-R120-F-T5](#) [KRL1632E-M-R018-F-T5](#) [KRL1632E-M-R220-F-T5](#) [KRL1220E-M-R027-F-T5](#) [KRL1220E-M-R082-F-T5](#) [KRL1220E-M-R008-G-T5](#) [KRL1220E-M-R047-F-T5](#) [KRL1220E-M-R005-G-T5](#) [KRL1632E-M-R027-F-T5](#) [KRL1632E-M-R015-F-T5](#) [KRL1220E-M-R270-F-T5](#) [KRL1632E-M-R022-F-T5](#) [KRL1220E-M-R330-F-T5](#) [KRL1632E-M-R150-F-T5](#) [KRL1632E-M-R012-F-T5](#) [KRL1220E-M-R022-F-T5](#) [KRL1220E-M-R150-F-T5](#) [KRL1632E-M-R330-F-T5](#) [KRL1220E-M-R470-F-T5](#) [KRL1220E-M-R039-F-T5](#) [KRL1220E-M-R007-G-T5](#) [KRL1220E-M-R068-F-T5](#) [KRL1632E-M-R082-F-T5](#) [KRL1632E-M-R047-F-T5](#) [KRL1632E-M-R008-G-T5](#) [KRL1632E-M-R006-G-T5](#) [KRL1220E-M-R056-F-T5](#) [KRL1632E-M-R180-F-T5](#) [KRL1632E-M-R100-F-T5](#) [KRL1220E-C-R022-F-T1](#) [KRL3264E-C-R220-F-T1](#) [KRL3264D-C-R100-F-T1](#) [KRL1220D-C-R033-F-T1](#) [KRL1220E-C-R005-G-T5](#) [KRL3264E-M-R008-G-T5](#) [KRL1220E-C-R027-F-T1](#) [KRL1220E-C-R033-F-T5](#) [KRL3264E-C-1R00-F-T1](#) [KRL3264E-M-R082-F-T5](#) [KRL1220D-M-R010-F-T1](#) [KRL3264E-C-R010-F-T1](#) [KRL0816D-M-R010-F-T5](#) [KRL1220E-C-R047-F-T1](#) [KRL3264E-C-R015-F-T5](#) [KRL1220E-C-R100-F-T1](#) [KRL3264E-C-R100-F-T1](#) [KRL1220E-C-R022-F-T5](#) [KRL1220E-C-R033-F-T1](#) [KRL1220E-C-R010-F-T1](#) [KRL1632E-C-R100-F-T5](#) [KRL3264D-M-R010-F-T1](#) [KRL1220E-C-R039-F-T1](#) [KRL1220E-C-R009-G-T1](#) [KRL3264D-C-R022-F-T1](#)