







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 5m $\Omega \sim 9m\Omega$, and +/-50ppm°C for 10m $\Omega \sim$. 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.

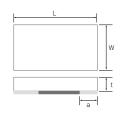
Applications

 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 \sim 7.0m Ω)		0.40±0.20	1.10±0.20	1.90±0.20	3.60±0.30
a(8.0mΩ~)	_		1.10±0.20	1.90±0.20	3.00±0.30
a(9.0mΩ~)	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)	0	_	0	_	0	_	0	_	0	
	±2.0(G)	_	0	_	0	_	0	_	0	_	
Temperature coefficient of resistance(ppm/°C)	±50	0	_	0	_	0	_	0	_	0	
	±100	-	0	_	0	-	0	_	0	_	
Operating temperature	С	−55°C~175°C									
	М	−55°C~155°C									
Rated ambient temperature (at terminals)	С	120℃ or less									
	М	100℃ or less									
Packaging	1,000pcs	0	0	0	((0		
	5,000pcs	0	0	0	()	(_		

Part numbering system KRL 1220 E - 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