



AEC-Q200 Compliant

- High current sensing short side terminal low resistance chip resistor
- Two types available: high temperature (operating temperature up to 175°C), low emf type (operating temperature up to 155°C).
- High current handling capability and wide range of power ratings
- Size: 0510 ~ 50110, power ratings: 0.2W ~ 5W, resistance value range: 5m ~ 1000mΩ
- Face down construction. Choice between bottom only or wrap around terminal



Applications

- Automotive electronics
- Power source devises, ACDC converters, DCDC converters
- Motors, inverters, office automation equipment

◆Part numbering system

KRL 1220E - C - R010 - F - T1

Packaging quantity:
T1(1,000pcs), T5(5,000pcs)

Series code

Resistance tolerance

Size: KRL0510, KRL0816, KRL1220, KRL1632
KRL2550, KRL3264, KRL50110

Nominal resistance value

Terminal type: D (bottom terminal), E (wrap around terminal)

Temperature characteristics type:
C (high operating temperature) , M (low EMF)

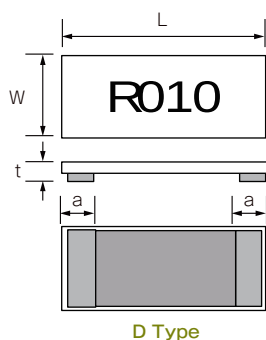
◆Electrical Specification

Type	Power ratings	Temperature coefficient of resistance	Resistance range(Ω) Resistance tolerance		Resistance value series	Operating temperature		Packaging quantity
		(ppm/°C)	±1% (F)	±2% (G)		C	M	
KRL0510	0.2W	±50	50m≤R≤100m		E-6 / E-12 ^{*2}	-55°C ~ 175°C	-55°C ~ 155°C	10,000pcs
		±100						
KRL0816	0.3W	±50	10m≤R≤500m	—				
		±100	—	5m≤R≤9m(1m step)				
KRL1220	0.5W	±50	10m≤R≤500m	—				
		±100	—	5m≤R≤9m(1m step)				
KRL1632	0.75W	±50	10m≤R≤500m	—				
		±100	—	5m≤R≤9m(1m step)				
KRL2550	1.5W	±50	10m≤R≤500m	—				
		±100	—	5m≤R≤9m(1m step)				
KRL3264	2W	±50	10m≤R≤1000m	—				
		±100	—	5m≤R≤9m(1m step)				
KRL50110	5W	±50	10m≤R≤1000m	—				
		±100	—	5m≤R≤9m(1m step)				T1

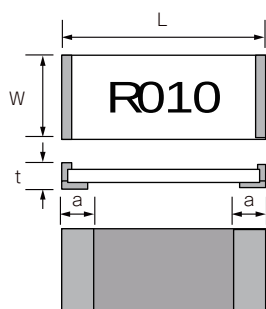
*1 We can meet your requirement for resistance value not specified in above table. Please contact our sales office.

*2 We can meet your requirement outside of E-6/E-12 series resistance. Please contact our sales office.

◆ Dimensions



D Type

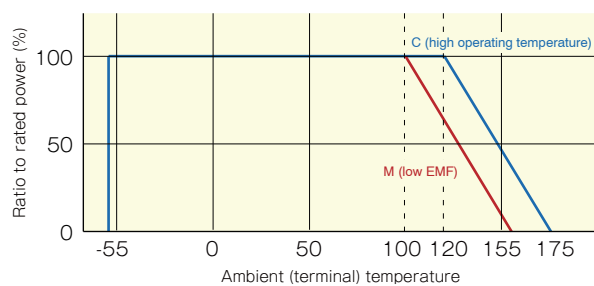


E Type

Type	Size (inch)	L	W	t	a
KRL0510	0402	1.00 ± 0.20	0.50 ± 0.20	0.40 ± 0.20	0.30 ± 0.20
KRL0816	0603	1.60 ± 0.20	0.80 ± 0.20	0.50 ± 0.20	0.30 ± 0.20
KRL1220	0805	2.00 ± 0.20	1.25 ± 0.20	0.50 ± 0.20	0.40 ± 0.20
KRL1632	1206	3.20 ± 0.20	1.60 ± 0.20	0.50 ± 0.20	$0.40 \pm 0.20 (9m\Omega \sim) / 1.10 \pm 0.20 (5 \sim 8m\Omega)$
KRL2550	2010	5.00 ± 0.20	2.50 ± 0.20	0.50 ± 0.20	$0.60 \pm 0.20 (9m\Omega \sim) / 1.40 \pm 0.20 (5 \sim 8m\Omega)$
KRL3264	2512	6.30 ± 0.20	3.10 ± 0.20	0.50 ± 0.20	$1.00 \pm 0.20 (9m\Omega \sim) / 1.90 \pm 0.20 (5 \sim 8m\Omega)$
KRL50110	4320	11.00 ± 0.20	5.00 ± 0.20	0.65 ± 0.20	$2.36 \pm 0.20 (8m\Omega \sim) / 3.60 \pm 0.20 (5 \sim 7m\Omega)$

(unit : mm)

◆ Derating Curve



KRL1632E-3A series (1W) and KRL3264E-3F series (3W) are also in our line-up.

