



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

■ KRL series

AEC-Q200 Compliant

Features

- 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 devices, ACDC converters, DCDC converters
- Motors, inverters, office automation equipment

◆ Part numbering system

KRL 1220E - C - R010 - F - T1

Series code

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

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

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

Resistance tolerance

Nominal resistance value

Temperature characteristics type:
C (high operating temperature), M (low EMF), Z (High precision TCR)

◆ Electrical Specification

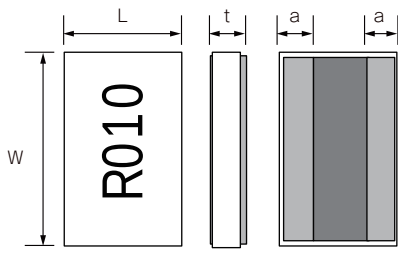
Type	Power ratings	Temperature coefficient of resistance (ppm/°C)	Resistance range(Ω) ^{*1}		Resistance tolerance	Resistance value series	Operating temperature			Packaging quantity
			±1% (F)	±2% (G)			C	M	Z	
KRL0510 ^{※2}	0.2W	±50 ±100	50m≤R≤100m			E-6 / E-12 ^{※3}	-55°C ~ 175°C	-55°C ~ 155°C	-55°C ~ 155°C	10,000pcs
KRL0816	0.3W	±50 ±100	10m≤R≤500m	—						T1
			5m≤R≤9m(1m step)							T5
KRL1220	0.5W	±50 ±100	10m≤R≤500m	—						
			5m≤R≤9m(1m step)							
KRL1632	0.75W	±50 ±100	10m≤R≤500m	—						
			3m≤R≤9m(1m step)							
KRL2550	1.5W	±50 ±100	10m≤R≤500m	—						
			4m≤R≤9m(1m step)							
KRL3264	3W	±50 ±100 ±200	10m≤R≤1000m	—						
			3m≤R≤9m(1m step)							
			2m							
KRL50110	5W	±50 ±100	10m≤R≤1000m	—						
			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.

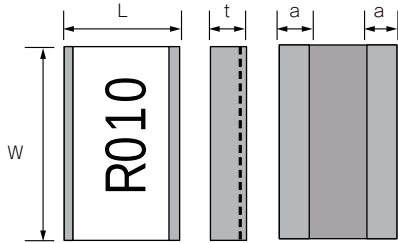
*2 For KRL0510, please contact our sales office

*3 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
KRL1608 ^{*1}	0306	0.80±0.20	1.60±0.20	0.50±0.20	0.25±0.20(5mΩ~)
KRL2012	0508	1.25±0.20	2.00±0.20	0.50±0.20	0.30±0.20(2mΩ~)/0.55±0.20(1mΩ)
KRL3216	0612	1.60±0.20	3.20±0.20	0.50±0.20	0.30±0.20(2mΩ~)/0.55±0.20(1mΩ)
KRL5025	1020	2.50±0.20	5.00±0.20	0.50±0.20	0.55±0.20(2mΩ~)/0.90±0.20(1mΩ)
KRL6432	1225	3.10±0.20	6.30±0.20	0.50±0.20	0.50±0.20(2mΩ~)/1.20±0.20(1mΩ)
KRL7638	1530	3.80±0.20	7.60±0.20	0.50±0.20	0.60±0.20(2mΩ~)/1.35±0.20(1mΩ)
KRL9045	1835	4.50±0.20	9.00±0.20	0.50±0.20	0.70±0.20(2mΩ~)/1.60±0.20(1mΩ)
KRL11050	2043	5.00±0.20	11.00±0.20	0.50±0.20	0.80±0.20(2mΩ~)/1.60±0.20(1mΩ)
KRL15075	3059	7.50±0.20	15.00±0.20	0.65±0.20	1.10±0.20(2mΩ~)/2.75±0.20(1mΩ)

*1 KRL1608 doesn't have E Type

(unit : mm)

Current sensing surface mount resistors

KRL series

◆ Derating Curve

