Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
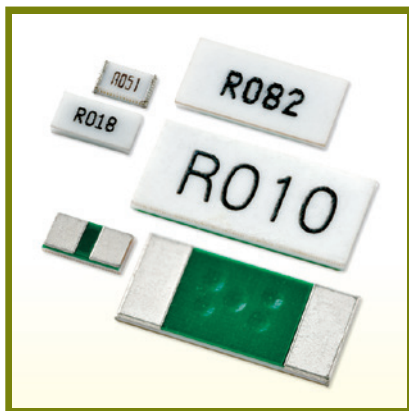
Contact us

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

Lead free   Halogen free   RoHS Compliance

Applications

· Automotive electronics
· Power source devises, 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)

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

Nominal resistance value

Resistance tolerance

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

◆Electrical Specification

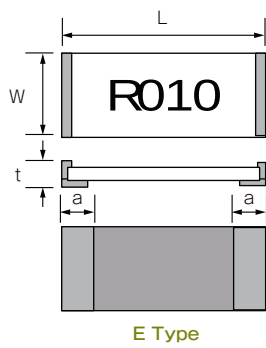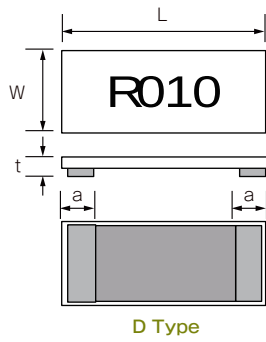| Type	Power ratings	Temperature coefficient of resistance (ppm/°C)	Resistance range(Ω) [1] ±1% (F)	Resistance tolerance ±2% (G)	Resistance value series	Operating temperature C	Operating temperature M	Packaging quantity
KRL0510	0.2W	±50	50m≦R≦100m					10,000pcs
		±100						
KRL0816	0.3W	±50	10m≦R≦500m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

[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±0.20(9mΩ~)/1.10±0.20(5~8mΩ)
KRL2550	2010	5.00±0.20	2.50±0.20	0.50±0.20	0.60±0.20(9mΩ~/1.40±0.20(5~8mΩ)
KRL3264	2512	6.30±0.20	3.10±0.20	0.50±0.20	1.00±0.20(9mΩ~)/1.90±0.20(5~8mΩ)
KRL50110	4320	11.00±0.20	5.00±0.20	0.65±0.20	2.36±0.20(8mΩ~)/3.60±0.20(5~7mΩ)

(unit : mm)

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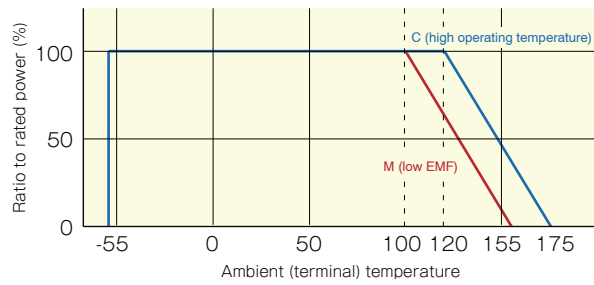
KRL1632E-3A series (1W) and KRL3264E-3F series (3W) are also in our line-up.

Current sensing surface mount resistors

KRL series