



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!



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

■ KRL series

AEC-Q200 Compliant

Features

- High current sensing long 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: 1608 ~ 15075, power ratings: 0.5W ~ 10W, resistance value range: 1m ~ 500mΩ
- 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 2012E - C - R010 - F - T1

Series code

Size: KRL1608, KRL2012, KRL3216, KRL5025
KRL6432, KRL7638, KRL9045, KRL11050
KRL15075

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)

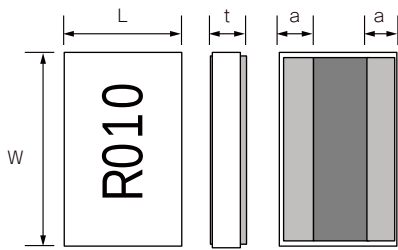
◆ Electrical Specification

Type	Power ratings	Temperature coefficient of resistance (ppm/°C)	Resistance range(Ω) Resistance tolerance ^{*1}			Resistance value series	Operating temperature		Packaging quantity									
			±1% (F)	±2% (G)	±5% (J)		C	M										
KRL1608	0.5W	±50	10m≤R≤100m	—	—	E-6 ^{*2}	-55°C ~ 175°C	-55°C ~ 155°C	T5									
		±100	—	5m≤R≤9m	—													
KRL2012	1W	±50	3m≤R≤9m (1m step) 10m≤R≤500m	—	—				E-6 ^{*2}	-55°C ~ 175°C	-55°C ~ 155°C	T1 T5						
		±100	—	R=2m	—													
		±150	—	—	R=1m													
KRL3216	1.5W	±50	3m≤R≤9m (1m step) 10m≤R≤500m	—	—							E-6 ^{*2}	-55°C ~ 175°C	-55°C ~ 155°C	T1 T5			
		±100	—	R=2m	—													
		±150	—	—	R=1m													
KRL5025	2W	±50	3m≤R≤9m (1m step) 10m≤R≤500m	—	—										E-6 ^{*2}	-55°C ~ 175°C	-55°C ~ 155°C	T1 T5
		±100	—	R=2m	—													
		±150	—	—	R=1m													
KRL6432	3W	±50	3m≤R≤9m (1m step) 10m≤R≤500m	—	—													E-6 ^{*2}
		±100	—	R=2m	—													
		±150	—	—	R=1m													
KRL7638	4W	±50	3m≤R≤9m (1m step) 10m≤R≤500m	—	—	E-6 ^{*2}	-55°C ~ 175°C	-55°C ~ 155°C	T1 T5									
		±100	—	R=2m	—													
		±150	—	—	R=1m													
KRL9045	5W	±50	3m≤R≤9m (1m step) 10m≤R≤500m	—	—				E-6 ^{*2}	-55°C ~ 175°C	-55°C ~ 155°C	T1 T5						
		±100	—	R=2m	—													
		±150	—	—	R=1m													
KRL11050	6W	±50	3m≤R≤9m (1m step) 10m≤R≤500m	—	—							E-6 ^{*2}	-55°C ~ 175°C	-55°C ~ 155°C	T1 T5			
		±100	—	R=2m	—													
		±150	—	—	R=1m													
KRL15075	10W	±50	10m≤R≤500m	—	—										E-6 ^{*2}	-55°C ~ 175°C	-55°C ~ 155°C	T1 T5
		±100	3m≤R≤9m (1m step)	R=2m	R=1m													
		±150	—	—	—													

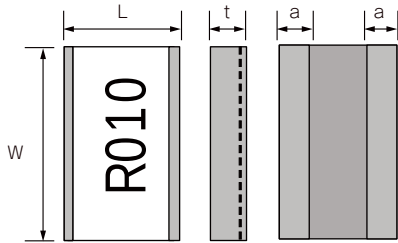
*1 We can meet your requirement of less than 1mΩ. Please contact our sales office.

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

◆ Dimensions



D Type



E Type

Type	Size (inch)	L	W	t	a
KRL1608 ^{*1}	0603	0.80±0.20	1.60±0.20	0.50±0.20	0.25±0.20(5mΩ~)
KRL2012	0805	1.25±0.20	2.00±0.20	0.50±0.20	0.30±0.20(2mΩ~)/0.55±0.20(1mΩ)
KRL3216	1206	1.60±0.20	3.20±0.20	0.50±0.20	0.30±0.20(2mΩ~)/0.55±0.20(1mΩ)
KRL5025	2010	2.50±0.20	5.00±0.20	0.50±0.20	0.40±0.20(2mΩ~)/0.55±0.20(1mΩ)
KRL6432	2512	3.10±0.20	6.30±0.20	0.50±0.20	0.50±0.20(2mΩ~)/1.20±0.20(1mΩ)
KRL7638	3015	3.80±0.20	7.60±0.20	0.50±0.20	0.60±0.20(2mΩ~)/1.35±0.20(1mΩ)
KRL9045	3518	4.50±0.20	9.00±0.20	0.50±0.20	0.70±0.20(2mΩ~)/1.60±0.20(1mΩ)
KRL11050	4320	5.00±0.20	11.00±0.20	0.50±0.20	0.80±0.20(2mΩ~)/1.60±0.20(1mΩ)
KRL15075	5930	7.50±0.20	15.00±0.20	0.65±0.20	1.10±0.20(1mΩ~)/2.75±0.20(0.5mΩ)

*1 KRL1608 doesn't have E Type

(unit : mm)

◆ Derating Curve

