



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

◆ Part numbering system

KRL 2012E - C - R010 - F - T1						Packaging quantity: T1(1,000pcs), T5(5,000pcs)
Series code		Resistance tolerance		Nominal resistance value		
Size: KRL1608, KRL2012, KRL3216, KRL5025 KRL6432, KRL7638, KRL9045, KRL11050 KRL15075		Temperature characteristics type: C (high operating temperature), M (low EMF)				
Terminal type: D (bottom terminal), E (wrap around terminal)						

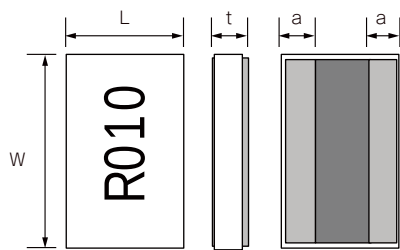
◆ Electrical Specification

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 ±100	10m≤R≤100m	— 5m≤R≤9m	—	E-6 ^{*2}	-55°C ~ 175°C	-55°C ~ 155°C	T5
KRL2012	1W	±50	3m≤R≤9m (1m step)	—	—				T1 T5
		±100	10m≤R≤500m	R=2m	—				
		±150	—	—	R=1m				
KRL3216	1.5W	±50	3m≤R≤9m (1m step)	—	—				
		±100	10m≤R≤500m	R=2m	—				
		±150	—	—	R=1m				
KRL5025	2W	±50	3m≤R≤9m (1m step)	—	—				
		±100	10m≤R≤500m	R=2m	—				
		±150	—	—	R=1m				
KRL6432	3W	±50	3m≤R≤9m (1m step)	—	—				
		±100	10m≤R≤500m	R=2m	—				
		±150	—	—	R=1m				
KRL7638	4W	±50	3m≤R≤9m (1m step)	—	—				
		±100	10m≤R≤500m	R=2m	—				
		±150	—	—	R=1m				
KRL9045	5W	±50	3m≤R≤9m (1m step)	—	—				
		±100	10m≤R≤500m	R=2m	—				
		±150	—	—	R=1m				
KRL11050	6W	±50	3m≤R≤9m (1m step)	—	—				T1
		±100	10m≤R≤500m	R=2m	—				
		±150	—	—	R=1m				
KRL15075	10W	±50	10m≤R≤500m	—	—				
		±100	3m≤R≤9m (1m step)	R=2m	R=1m				
		±150	—	—	—				

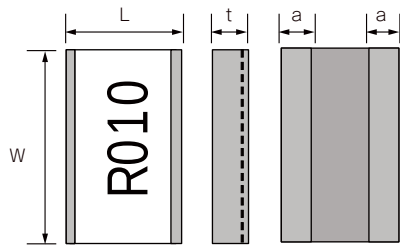
*1 We can meet your requirement of less than 1mΩ. Please contact our sales office.

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

◆Dimensions



D Type



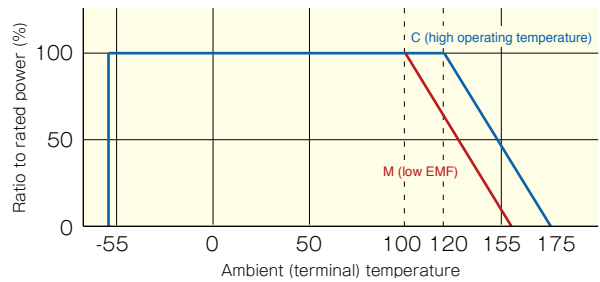
E Type

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



Mouser Electronics

Authorized Distributor

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Susumu:

[KRL7638-C-R068-F-T1](#) [KRL2012E-M-R033-F-T5](#) [KRL2012E-M-R003-F-T5](#) [KRL1632E-M-R470-F-T5](#) [KRL2012E-M-R150-F-T5](#) [KRL2012E-M-R470-F-T5](#) [KRL2012E-M-R007-F-T5](#) [KRL1220E-M-R220-F-T5](#) [KRL2012E-M-R010-F-T5](#) [KRL1632E-M-R270-F-T5](#) [KRL1632E-M-R068-F-T5](#) [KRL1632E-M-R010-F-T5](#) [KRL1220E-M-R120-F-T5](#) [KRL1220E-M-R006-G-T5](#) [KRL1220E-M-R033-F-T5](#) [KRL1632E-M-R039-F-T5](#) [KRL1220E-M-R018-F-T5](#) [KRL1632E-M-R056-F-T5](#) [KRL1220E-M-R100-F-T5](#) [KRL1220E-M-R180-F-T5](#) [KRL1220E-M-R015-F-T5](#) [KRL1632E-M-R009-G-T5](#) [KRL2012E-M-R100-F-T5](#) [KRL1220E-M-R012-F-T5](#) [KRL1632E-M-R007-G-T5](#) [KRL1220E-M-R010-F-T5](#) [KRL2012E-M-R009-F-T5](#) [KRL1632E-M-R390-F-T5](#) [KRL1632E-M-R005-G-T5](#) [KRL1632E-M-R033-F-T5](#) [KRL1220E-M-R390-F-T5](#) [KRL2012E-M-R005-F-T5](#) [KRL2012E-M-R220-F-T5](#) [KRL1220E-M-R009-G-T5](#) [KRL2012E-M-R330-F-T5](#) [KRL1632E-M-R120-F-T5](#) [KRL2012E-M-R006-F-T5](#) [KRL1632E-M-R018-F-T5](#) [KRL1632E-M-R220-F-T5](#) [KRL1220E-M-R027-F-T5](#) [KRL2012E-M-R068-F-T5](#) [KRL2012E-M-R002-G-T5](#) [KRL1220E-M-R082-F-T5](#) [KRL1220E-M-R008-G-T5](#) [KRL1220E-M-R047-F-T5](#) [KRL1220E-M-R005-G-T5](#) [KRL1632E-M-R027-F-T5](#) [KRL1632E-M-R015-F-T5](#) [KRL1220E-M-R270-F-T5](#) [KRL1632E-M-R022-F-T5](#) [KRL1220E-M-R330-F-T5](#) [KRL2012E-M-R004-F-T5](#) [KRL1632E-M-R150-F-T5](#) [KRL1632E-M-R012-F-T5](#) [KRL1220E-M-R022-F-T5](#) [KRL1220E-M-R150-F-T5](#) [KRL2012E-M-R047-F-T5](#) [KRL2012E-M-R001-J-T5](#) [KRL1632E-M-R330-F-T5](#) [KRL1220E-M-R470-F-T5](#) [KRL1220E-M-R039-F-T5](#) [KRL2012E-M-R022-F-T5](#) [KRL1220E-M-R007-G-T5](#) [KRL1220E-M-R068-F-T5](#) [KRL1632E-M-R082-F-T5](#) [KRL1632E-M-R047-F-T5](#) [KRL1632E-M-R008-G-T5](#) [KRL2012E-M-R015-F-T5](#) [KRL1632E-M-R006-G-T5](#) [KRL1220E-M-R056-F-T5](#) [KRL1632E-M-R180-F-T5](#) [KRL2012E-M-R008-F-T5](#) [KRL1632E-M-R100-F-T5](#) [KRL3216E-C-R020-F-T1](#) [KRL2012E-C-R100-F-T1](#) [KRL6432E-M-R100-F-T1](#) [KRL6432E-M-R008-F-T1](#) [KRL6432E-M-R010-F-T1](#) [KRL6432E-M-R015-F-T1](#) [KRL6432E-M-R002-G-T1](#) [KRL6432E-M-R007-F-T1](#) [KRL6432E-M-R022-F-T1](#) [KRL6432E-M-R009-F-T1](#) [KRL6432E-M-R047-F-T1](#) [KRL6432E-M-R006-F-T1](#) [KRL6432E-M-R005-F-T1](#) [KRL6432E-M-R003-F-T1](#) [KRL6432E-M-R033-F-T1](#) [KRL6432E-M-R004-F-T1](#) [KRL6432E-M-R200-F-T1](#) [KRL3216T4-M-R003-F-T1](#) [KRL11050DC-R004-F-T1](#) [KRL1220E-C-R022-F-T1](#) [KRL3264E-C-R220-F-T1](#) [KRL3264D-C-R100-F-T1](#) [KRL1220D-C-R033-F-T1](#) [KRL6432E-M-R100-F-T5](#) [KRL1220E-C-R005-G-T5](#) [KRL3264E-M-R008-G-T5](#) [KRL1220E-C-R027-F-T1](#)