



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)

◆ Electrical Specification

Type	Power ratings	Temperature coefficient of resistance (ppm/°C)	Resistance range(Ω) Resistance tolerance		Resistance value series	Operating temperature		Packaging quantity		
			±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	—						T1 T5
		±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	3W	±50	10m ≤ R ≤ 1000m	—						
		±100	—	5m ≤ R ≤ 9m (1m step)						
KRL50110	5W	±50	10m ≤ R ≤ 1000m	—			T1			
		±100	—	5m ≤ R ≤ 9m (1m step)						

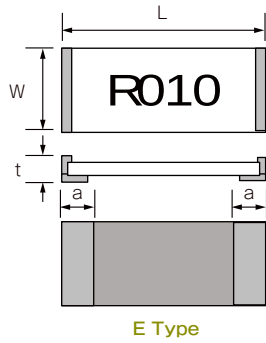
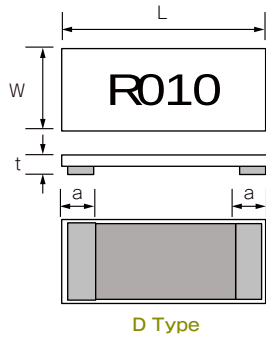
*1 We can meet your requirement for resistance value not specified in above table. Please contact our sales office.

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

Current sensing surface mount resistors

KRL series

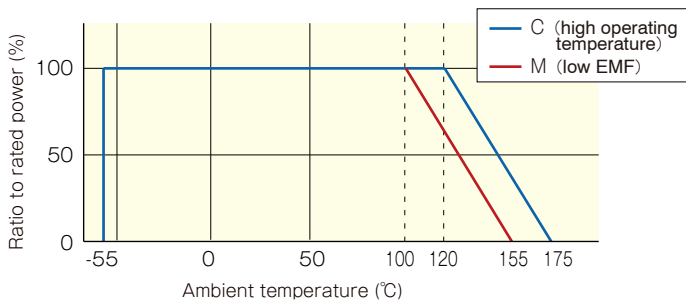
◆ Dimensions



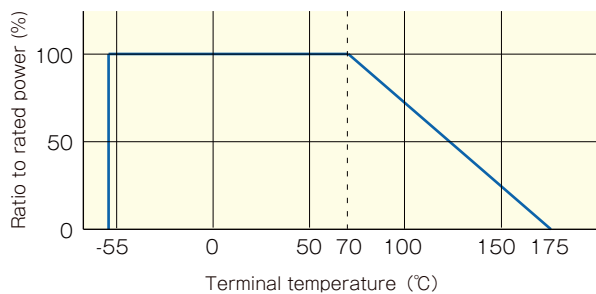
Type	Size (inch)	L	W	t	a
KRL0510	0402	1.00±0.20	0.50±0.20	0.40±0.20	0.30±0.20
KRL0816	0603	1.60±0.20	0.80±0.20	0.50±0.20	0.30±0.15(48mΩ~)/0.55±0.15(20~39mΩ) 0.70±0.15(10~18mΩ)
KRL1220	0805	2.00±0.20	1.25±0.20	0.50±0.20	0.40±0.20
KRL1632	1206	3.20±0.20	1.60±0.20	0.50±0.20	0.50±0.20(9mΩ~)/1.10±0.20(5~8mΩ)
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±0.30(8mΩ~)/3.60±0.30(5~7mΩ)

(unit : mm)

◆ Derating Curve



KRL1632E-3A series (1W) is also in our line-up.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Susumu:

[KRL1632E-M-R470-F-T5](#) [KRL1220E-M-R220-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](#) [KRL1220E-M-R012-F-T5](#) [KRL1632E-M-R007-G-T5](#) [KRL1220E-M-R010-F-T5](#) [KRL1632E-M-R390-F-T5](#) [KRL1632E-M-R005-G-T5](#) [KRL1632E-M-R033-F-T5](#) [KRL1220E-M-R390-F-T5](#) [KRL1220E-M-R009-G-T5](#) [KRL1632E-M-R120-F-T5](#) [KRL1632E-M-R018-F-T5](#) [KRL1632E-M-R220-F-T5](#) [KRL1220E-M-R027-F-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](#) [KRL1632E-M-R150-F-T5](#) [KRL1632E-M-R012-F-T5](#) [KRL1220E-M-R022-F-T5](#) [KRL1220E-M-R150-F-T5](#) [KRL1632E-M-R330-F-T5](#) [KRL1220E-M-R470-F-T5](#) [KRL1220E-M-R039-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](#) [KRL1632E-M-R006-G-T5](#) [KRL1220E-M-R056-F-T5](#) [KRL1632E-M-R180-F-T5](#) [KRL1632E-M-R100-F-T5](#) [KRL1220E-C-R022-F-T1](#) [KRL3264E-C-R220-F-T1](#) [KRL3264D-C-R100-F-T1](#) [KRL1220D-C-R033-F-T1](#) [KRL1220E-C-R005-G-T5](#) [KRL3264E-M-R008-G-T5](#) [KRL1220E-C-R027-F-T1](#) [KRL1220E-C-R033-F-T5](#) [KRL3264E-C-1R00-F-T1](#) [KRL3264E-M-R082-F-T5](#) [KRL1220D-M-R010-F-T1](#) [KRL3264E-C-R010-F-T1](#) [KRL0816D-M-R010-F-T5](#) [KRL1220E-C-R047-F-T1](#) [KRL3264E-C-R015-F-T5](#) [KRL1220E-C-R100-F-T1](#) [KRL3264E-C-R100-F-T1](#) [KRL1220E-C-R022-F-T5](#) [KRL1220E-C-R033-F-T1](#) [KRL1220E-C-R010-F-T1](#) [KRL1632E-C-R100-F-T5](#) [KRL3264D-M-R010-F-T1](#) [KRL1220E-C-R039-F-T1](#) [KRL1220E-C-R009-G-T1](#) [KRL3264D-C-R022-F-T1](#) [KRL1632E-C-R082-F-T1](#) [KRL1632E-C-R051-F-T1](#) [KRL1632E-C-R082-F-T5](#) [KRL1632E-C-R200-F-T1](#) [KRL1632E-C-R200-F-T5](#) [KRL1632E-C-R039-F-T1](#) [KRL1632E-C-R150-F-T1](#) [KRL1632E-C-R027-F-T1](#) [KRL1632E-C-R008-G-T1](#) [KRL1632E-C-R033-F-T1](#) [KRL1632E-C-R006-G-T1](#) [KRL3264E-C-R270-F-T1](#) [KRL1632E-C-R180-F-T1](#) [KRL3264E-C-R027-F-T1](#) [KRL1632E-C-R007-G-T1](#) [KRL1632E-C-R390-F-T1](#) [KRL3264E-C-R047-F-T1](#) [KRL3264E-C-R039-F-T1](#) [KRL3264E-C-R180-F-T1](#) [KRL3264E-C-R005-G-T1](#) [KRL3264E-C-R082-F-T1](#) [KRL3264E-C-R007-G-T1](#) [KRL3264E-C-R120-F-T1](#)