



Low resistance chip resistors (short-side terminal)

RL series

Features

- Innovative structure that takes consideration of heat dissipation suppress the surface temperature enabling the small sizes reducing the influence of heat on surrounding components.

Applications

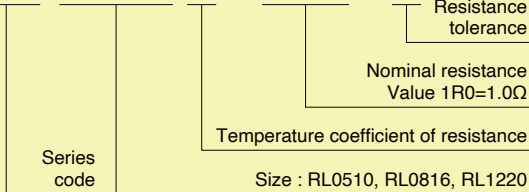
- PC power sources, inverters, automotive electronics, adapters, industrial machines



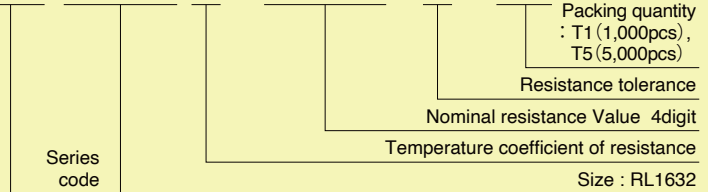
*1 : Except for RL0510, RL1632 and RL3264

◆Part numbering system

RL 1220 S - 1R0 - F



RL 1632 S - R047 - F - T5



◆Electrical Specification

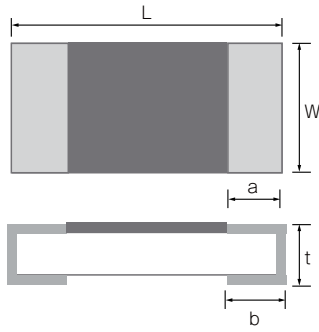
Type	Power ratings	Temperature coefficient of resistance (ppm/°C)	Resistance range(Ω) Resistance tolerance			Maximum voltage	Resistance value series	Operating temperature	Packaging quantity
			±1% (F)	±2% (G)	±5% (J)				
RL0510	1/8W	0 ~ +350(T)	50m<R<100m			√(P · R)	E-24	-55°C ~ 125°C	10,000pcs
	1/6W	0 ~ +200(S)	100m≤R≤47						
RL0816	1/4W	0 ~ +200(S)	20m≤R<100m						
		0 ~ +350(T)	5.1≤R≤47						
	1/5W	0 ~ +100(R)	100m≤R≤6.8	—					
		0 ~ +200(S)	7.5≤R≤68						
RL1220	1/4W	0 ~ +200(S)	43m≤91m						
		0 ~ +350(T)	10m≤91m						
	1/3W	0 ~ +100(R)	100m≤R≤10						
		0 ~ +200(S)	11≤R≤100						
RL1632	1/2W	0 ~ +100(R)	510m≤R≤4.7 ^{*1}	56m≤R≤470m	—	—			
		0 ~ +200(S)	—	33m≤R≤51m	—				
		0 ~ +350(T)	—	27m≤R≤30m	18m≤R≤24m				
		0 ~ +500(T)	—	—	10m≤R≤16m				

*1 RL series with resistance tolerance 0.5% is also available. Please contact our sales office.

Current sensing surface mount resistors

RL series

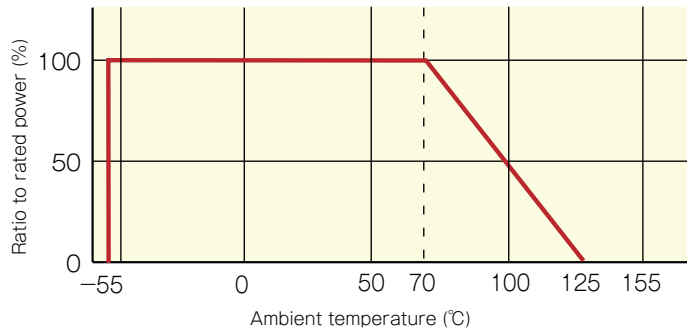
◆ Dimensions



Type		Size (inch)	L	W	a	b	t
RL0510	$R \leq 0.2\Omega$	0402	1.00 ± 0.05	0.50 ± 0.05	0.15 ± 0.10	0.25 ± 0.10	$0.35 + 0.15 / -0.10$
	$R > 0.2\Omega$					0.15 ± 0.10	0.35 ± 0.10
RL0816	$R \leq 0.082\Omega$	0603	1.60 ± 0.20	0.80 ± 0.20	0.20 ± 0.15	0.25 ± 0.20	$0.45 + 0.15 / -0.10$
	$R > 0.091\Omega$					0.20 ± 0.15	0.45 ± 0.10
RL1220	$R \leq 0.068\Omega$	0805	2.00 ± 0.20	1.25 ± 0.20	0.40 ± 0.20	0.40 ± 0.20	0.50 ± 0.20
	$R > 0.075\Omega$						0.40 ± 0.10
RL1632		1206	3.20 ± 0.20	1.60 ± 0.20	—	1.00 ± 0.15	0.50 ± 0.15

(unit : mm)

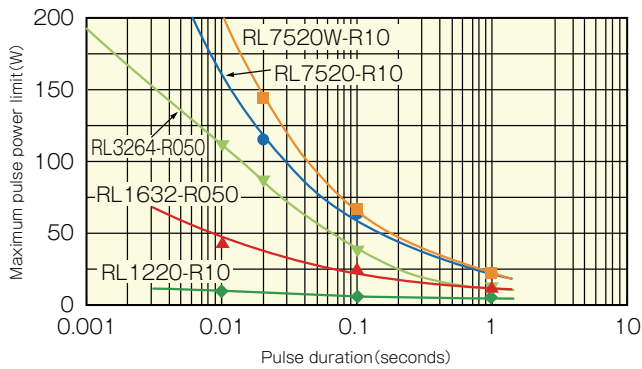
◆ Derating Curve



Current sensing surface mount resistors

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◆ Resistance to pulse power



Test procedure

Voltage pulse is applied to the test samples mounted on the test board.
 After each pulse, resistance drift is measured. Pulse voltage is increased until the drift exceeds +/-0.5%.
 The power at that voltage is defined as the maximum pulse power.

单击下面可查看定价，库存，交付和生命周期等信息

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