





# 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.

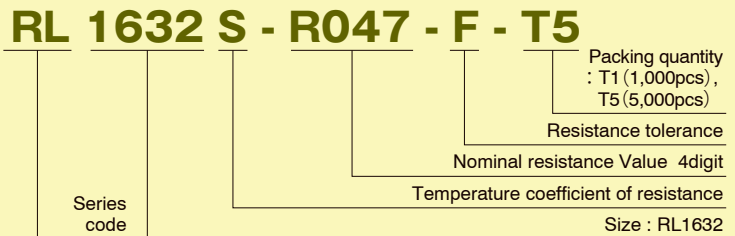
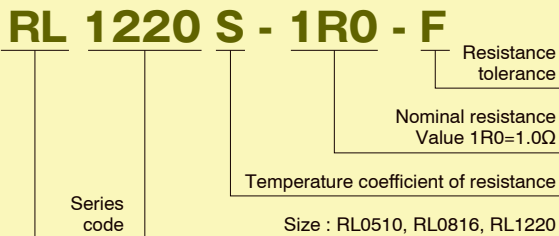
### Applications

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



\*1 : Except for RL0510, RL1632 and RL3264

### ◆Part numbering system



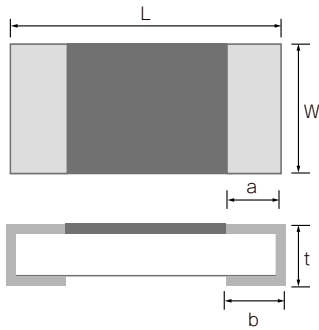
### ◆Electrical Specification

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)	20m ≤ R < 100m						
	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 <sup>*1</sup>	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

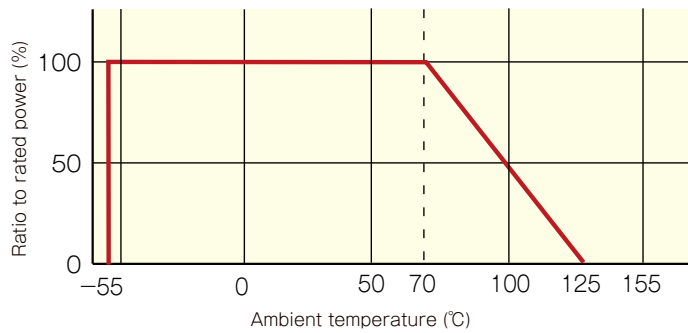
### ◆ Dimensions



Type	Size (inch)	L	W	a	b	t
RL0510	0402	1.00±0.05	0.50±0.05	0.15±0.10	0.25±0.10	0.35+0.15/-0.10
						0.15±0.10
RL0816	0603	1.60±0.20	0.80±0.20	0.20±0.15	0.25±0.20	0.45+0.15/-0.10
						0.20±0.15
RL1220	0805	2.00±0.20	1.25±0.20	0.40±0.20	0.40±0.20	0.50±0.20
						0.40±0.10
RL1632	1206	3.20±0.20	1.60±0.20	—	1.00±0.15	0.50±0.15

(unit : mm)

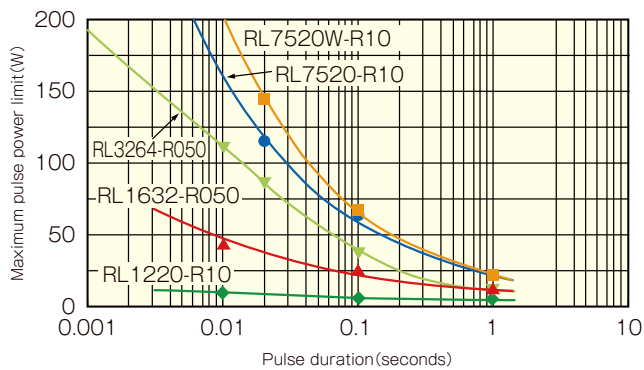
### ◆ Derating Curve



Current sensing surface mount resistors

RL series

### ◆ 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.

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View RL0816T-R027-F on WIN SOURCE](#)
-  [Susumu Information](#)

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