



# 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.

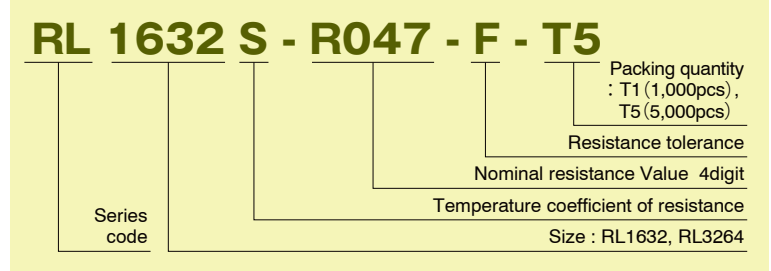
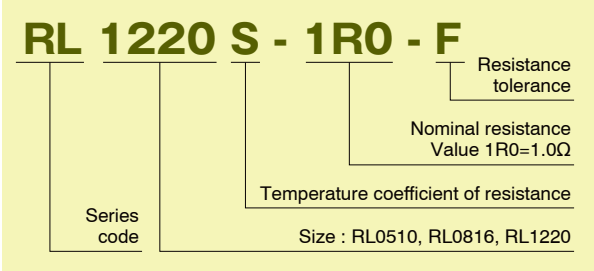
### Applications

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



\*1 : Except for RL0510, RL1632 and RL3264

## ◆Part numbering system



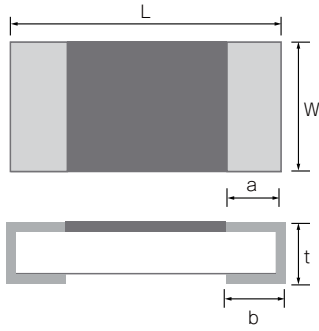
## ◆Electrical Specification

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≤4.7						
RL0816	1/4W	0 ~ +200(S)	20m≤R<100m						
		0 ~ +350(T)	100m≤R≤6.8						
	1/5W	0 ~ +100(R)	7.5≤R≤68						
		0 ~ +200(S)	43m≤R≤91m						
RL1220	1/4W	0 ~ +200(S)	10m≤R≤39m						
		0 ~ +350(T)	100m≤R≤10						
	1/3W	0 ~ +100(R)	11≤R≤100						
		0 ~ +200(S)	510m≤R≤4.7*1						
RL1632	1/2W	0 ~ +100(R)	56m≤R≤470m	-		-	-	T1	
		0 ~ +200(S)	33m≤R≤51m	-					
		0 ~ +350(T)	27m≤R≤30m	18m≤R≤24m	-				
		0 ~ +500(T)	-	10m≤R≤16m	-				
RL3264	1W	0 ~ +100(R)	56m≤R≤470m	-		-	-	T5	
		0 ~ +200(S)	33m≤R≤47m	-					
		0 ~ +350(T)	27m	18m≤R≤22m	-				
		0 ~ +500(T)	-	10m≤R≤15m	-				

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

Current sensing surface mount resistors  
RL series

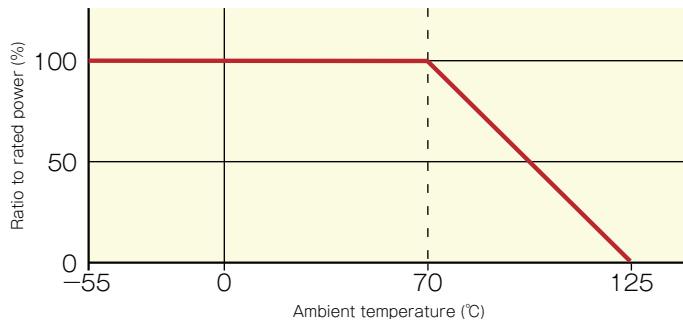
◆ Dimensions



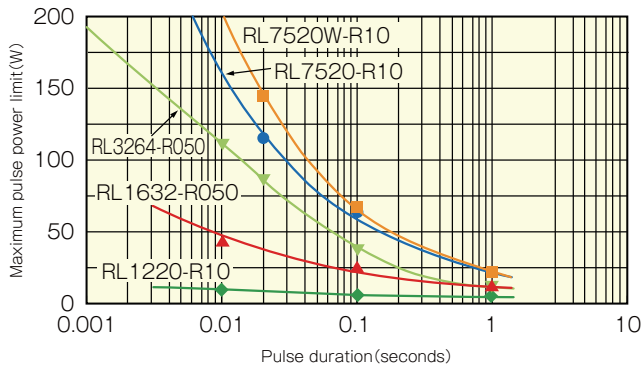
Type	Size (inch)	L	W	a	b	t
RL0510	0402	1.00±0.05	0.50±0.05	0.15±0.10	0.25±0.10	0.35+0.15/-0.10
						0.15±0.10
RL0816	0603	1.60±0.20	0.80±0.20	0.20±0.15	0.25±0.20	0.45+0.15/-0.10
						0.20±0.15
RL1220	0805	2.00±0.20	1.25±0.20	0.40±0.20	0.40±0.20	0.50±0.20
						0.40±0.10
RL1632	1206	3.20±0.20	1.60±0.20	—	1.00±0.15	0.50±0.15
RL3264	2512	6.40±0.20	3.20±0.20	—	2.00±0.15	0.50±0.15

(unit : mm)

◆ Derating Curve



◆ Resistance to power pulse



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.