



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, adopters, industrial machines

Lead free **Halogen free** **RoHS Compliance**

*1 : Except for RL0510, RL1632 and RL3264

◆ Part numbering system

RL	1220	S	-	1R0	-	F
Series code				Resistance tolerance		
				Nominal resistance Value 1R0=1.0Ω		
				Temperature coefficient of resistance		
				Size : RL0510, RL0816, RL1220		

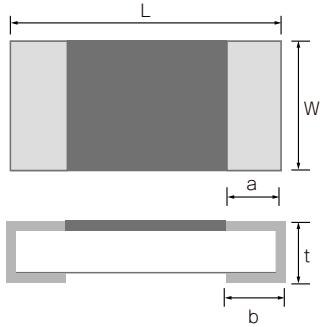
RL	1632	S	-	R047	-	F	-	T5
Series code				Packing quantity : T1(1,000pcs), T5(5,000pcs)				
				Resistance tolerance				
				Nominal resistance Value 4digit				
				Temperature coefficient of resistance				
				Size : RL1632				

◆ 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	—	5.1≤R≤47				
RL0816	1/4W	0 ~ +200(S) 0 ~ +350(T)	20m≤R<100m	—	—	√(P · R)	E-24	-55°C ~ 125°C	5,000pcs
	1/5W	0 ~ +100(R) 0 ~ +200(S)	100m≤R≤6.8	—	7.5≤R≤68				
RL1220	1/4W	0 ~ +200(S) 0 ~ +350(T)	43m≤91m	—	10m≤91m	√(P · R)	E-24	-55°C ~ 125°C	5,000pcs
	1/3W	0 ~ +100(R) 0 ~ +200(S)	100m≤R≤10	—	11≤R≤100				
RL1632	1/2W	0 ~ +100(R)	510m≤R≤4.7 ^{*1}	56m≤R≤470m	—	—	—	T1 T5	T1 T5
		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.

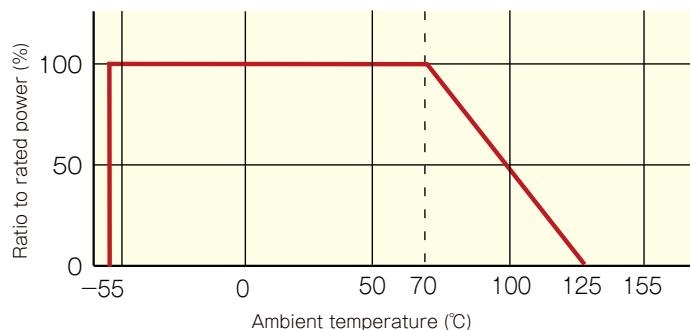
◆Dimensions



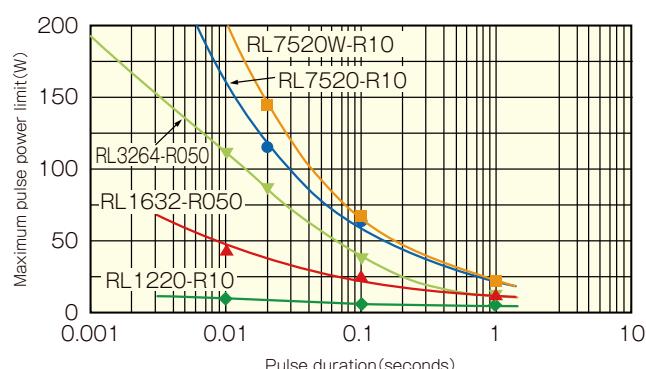
Type		Size (inch)	L	W	a	b	t
RL0510	$R \leq 0.2\Omega$	0402	1.00 ± 0.05	0.50 ± 0.05	0.15 ± 0.10	0.25 ± 0.10	$0.35 \pm 0.15/-0.10$
	$R > 0.2\Omega$					0.15 ± 0.10	0.35 ± 0.10
RL0816	$R \leq 0.082\Omega$	0603	1.60 ± 0.20	0.80 ± 0.20	0.20 ± 0.15	0.25 ± 0.20	$0.45 \pm 0.15/-0.10$
	$R > 0.091\Omega$					0.20 ± 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



◆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 $\pm 0.5\%$.

The power at that voltage is defined as the maximum pulse power.

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