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

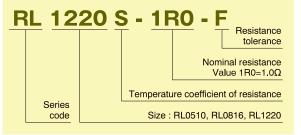






*1: Except for RL0510, RL1632 and RL3264

♦Part numbering system



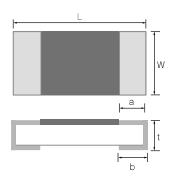
RL 1632 S - R047 - F - T5 Packing quantity: T1 (1,000pcs), T5 (5,000pcs) Resistance tolerance Nominal resistance Value 4digit Temperature coefficient of resistance Size: RL1632

♦Electrical Specification

Туре	Power ratings	Temperature coefficient of resistance	Resistance range(Ω) Resistance tolerance					Maximum voltage	Resistance value series	Operating temperature	Packaging quantity
		(ppm/°C)	±1% (I	F)	±	2% (G)	±5% (J)				
RL0510	1/8W	0~+350(T)		50m≦R	R<100m —						
	1/6W	0~+200(S)	100m≦R≦4.7 —							10,000pcs	
			5.1≦R≦47								
RL0816	1/4W	0~+200(S)		00	\m <d<100< td=""><td>)</td><td></td><td></td><td></td><td></td><td></td></d<100<>)					
		0~+350(T)	20m≦R<100m					-			
	1/5W	0~+100(R)	100m≦R≦6,8		_						
		0~+200(S)	100H=1=0.0								
		0 ~ +200(3)	7.5≦R≦68						-55℃ ~ 125℃	5,000pcs	
RL1220	1/4W	0~+200(S)	43m≦91m					√(P · R) E-24			
		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)		56m≦R	≦470m	_	_				
		0~+200(S)		33m≦F	R≦51m						T1
		0~+350(T)		27m≦F	R≦30m	18m≦R≦24m					T5
		0 ~ +500(T)		-	-	10m≦R≦16m					

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

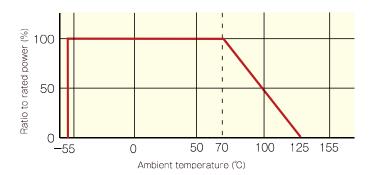
◆Dimensions



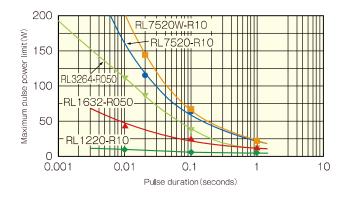
Туре		Size (inch)	L	w	а	b	t
RL0510	R≦0.2Ω	0.400	1.00±0.05	0.50±0.05	0.4510.40	0.25±0.10	0.35+0.15/-0.10
HLU510	R>0.2Ω	0402			0.15±0.10	0.15±0.10	0.35±0.10
RL0816	R≦0.082Ω	0000	1.60±0.20	0.80±0.20	0.001045	0.25±0.20	0.45+0.15/-0.10
	R>0.091Ω	0603			0.20±0.15	0.20±0.15	0.45±0.10
RL1220	R≦0.068Ω	0005	2.00±0.20	1.25±0.20	0.40±0.20	0.40±0.20	0.50±0.20
	R>0.075Ω	0805					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 +/-0.5%. The power at that voltage is defined as the maximum pulse power.