

Low resistance chip resistors (short side terminal)

■ This series includes(some of) former RP and RPH series

Features

The distinctive structure that encourages heat dissipation and radiation limits the rise of the surface temperature, allows the realization of smaller sizes, and reduces the influence of heat on surrounding components.

Applications

PCs, power sources, mobile phones, automotive electronics, adaptor and industrial machining equipment.

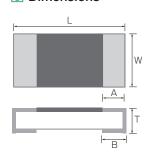
unit: mm

Lead Halogen RoHS free free Compliance *1: Except for RL0510、RL1632、RL3264

Specifications

*All made to order.

Dimensions



Dimension (inch)	(OLD DD400E'		RL0816 (0603) (0LD:RP1608,RPH1608 included)		RL1220 (0805) (OLD:RP2012 included)		RL1632 (1206)	RL3264 (2512)	
	R≦0.2Ω	R>0.2Ω	R≦0.082Ω	R>0.091Ω	R≦0.068Ω R>0.075Ω				
L	1.00±0.05		1.60±0.20		2.00±0.20		3.2±0.20	6.4±0.20	
W	0.50±0.05		0.80±0.20		1.25±0.20		1.6±0.20	3.2±0.20	
А	0.15±0.10		0.20±0.15		0.40±0.20		_	_	
В	0.25±0.10	0.15±0.10	0.25±0.20	0.20±0.15	0.40±0.20		1.00±0.15	2.00±0.15	
Т	0.35+0.15/-0.10	0.35±0.10	0.45+0.15/-0.10	0.45±0.10	0.5±0.20	0.4±0.10	0.5±0.15	0.5±0.15	

NOTE Obsoleted: RP1005, RP1608, RPH1608, RP2012 Alternative P/N:RL0510, RL0816, RL1220

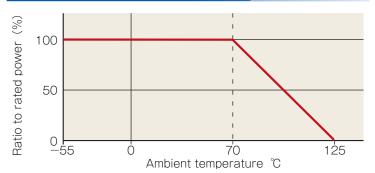
Electrical characteristics

Series name		RL0510 (OLD: RP1005 included)			RL0816(OLD:RP1608,RPH1608 included)			RL1220(OLD:RP2012 included)			
Power		1/8W	1/6W (OLD:RP1005 included)		1/4W (OLD:RPH1608)		5W RP1608)	1/4W		1/3W (OLD:RP2012)	
E series offered		E-24									
Resistance range(Ω)		R<0.05~0.1	0.1 ~ 4.7	5.1 ~ 47	R<0.01 ~ 0.1	0.1 ~ 6.8	7.5~68	0.01 ~ 0.039	0.043~0.091	0.1 ~ 10	11~100
Resistance	±1.0 (F)	0	0	0	0	0	0	0	0	0	0
tolerance	±2.0 (G)	0	0	0	0	_	0	0	0	0	0
(%)	±5.0 (J)	_	-	0	0	_	0	0	0	0	0
Temperature	0~+100(R)	_	_	_	_	0	_	_	_	0	_
coefficient of	0~+200(S)	_	0	0	0	0	0	-	0	0	0
resistance(ppm/°C)	0~+350(T)	0	_	_	0	_	_	0	0	_	_
Maximum voltage		$\sqrt{(P \cdot R)}$									
Operating temperature		−55 ~ 125 °C									
Dookoging	5,000pcs		_		0						
Packaging	10,000pcs		0		_						

Series name		RL1632								
Power		1/ 2W								
E series offered		E-24								
Resistance range(Ω)		0.01 ~ 0.016	0.018~0.024	0.027~0.03	0.033~0.051	0.056~0.47	0.51 ~ 4.7			
Resistance	±0.5 (D)	_	_	_	_	_	0			
tolerance	±1.0 (F)	_	_	0	0	0	0			
(%)	±2.0 (G)	0	0	0	0	0	-			
Temperature coefficient of resistance (ppm/°C)	0~+100(R)	_	_	_	_	0	0			
	0~+200(S)	=	_	=	0	_	_			
	0~+350(T)	=	0	0	_	_	-			
	0~+500(T)	0	_	=	_	_	_			
Maximum voltage		$\sqrt{(P \cdot R)}$								
Operating temperature		−55~125°C								
Packaging 5,000pcs		0								

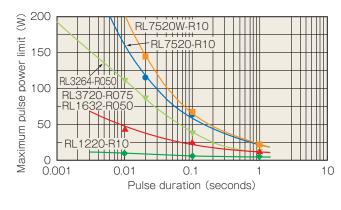
Series name		RL3264								
Power		1W								
E series offered		Standard stock item: E-24series E-12series								
Resistance range (Ω)		0.01 ~ 0.015	0.018~0.022	0.027	0.033~0.047	0.056~0.47				
	±0.1 (B)	_	_	_	_	_				
Resistance	±0.5 (D)	_	_	_	_	_				
tolerance (%)	±1.0 (F)	_	_	0	0	0				
	±2.0 (G)	0	0	0	0	0				
	±5.0 (J)	_	_	-	_	_				
Temperature coefficient of resistance(ppm/°C)	0~+100(R)	_	_	_	_	0				
	0~+200(S)	=	=	_	0	_				
	0~+350(T)	=	0	0	=	=				
	0~+500(T)	0	_	_	_	_				
Maximum voltage		$\sqrt{(P \cdot R)}$								
Operating temperature		-55 ~ 125°C								
Packaging 5,000pcs		0								

Power derating characteristics



Power 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.

