

RL series, low resistance value chip resistors with long-side electrodes for high-precision current detection.



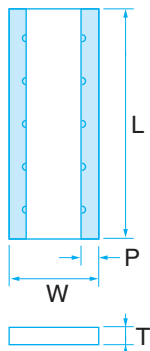
A specially designed construction assures small dimensions and repressed surface temperature increase due to heat radiation and thermal conduction. This construction also minimizes the thermal effects on peripheral areas. Patent 2963671

Our SMD components contribute to lead-free composition of electronics products.



SPECIFICATIONS

Mechanical



Dimension (mm)	RL3720 (0815)	RL3720W (0815)	RL7520W (0830)
L	3.75±0.30	3.75±0.30	7.50±0.30
W	2.00±0.20	2.00±0.20	2.00±0.20
P	0.40±0.20	0.40±0.20	0.40±0.20
T	0.40±0.10	0.40+0.15/-0.10	0.40+0.15/-0.10

Equivalent circuit



Electrical

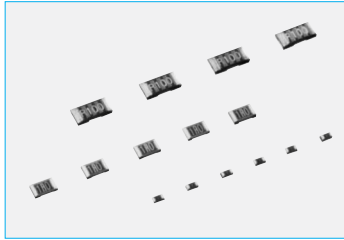
Type	RL3720		RL3720W		RL7520W			
Power	1/2W		1W		2W			
Resistance Tolerance (code)	±1%(F) ±2%(G)		±1%(F) ±2%(G)		±5%(J)	±1%(F) ±2%(G)		
Resistance Range (ohm)	0.022~0.068	0.1~2.2	0.010~0.068	0.1~1.0	1,2,3m	5,6,9m	0.010~0.068	0.1~0.47
Temperature Coefficient of Resistance ppm/°C(code)	0~+350 (T)	0~+200 (S)	0~+350 (T)	0~+200 (S)	0~+800 (T)	0~+420 (T)	0~+350 (T)	0~+200 (S)
Resistance Value	E-6		E-6		-		E-6	
Package	4000pcs/reel							



PART NUMBER

RL 3720(W) T - R10 - F

Resistance Tolerance	F
Resistance (1R0=1.0ohm, R0**=less than 0.082ohm)	R10
Temperature Coefficient of Resistance	T
Dimensions	3720(W)
Part Code	RL



RL series, low resistance value chip resistors with short-side electrodes for high-precision current detection.

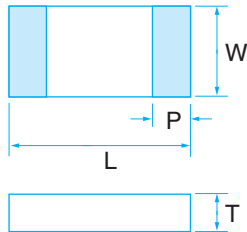


Original resistance materials assure resistance tolerance of $\pm 1\%$ and thermal coefficient of resistance of $\pm 100\text{ppm}/^\circ\text{C}$
Our SMD components contribute to lead-free composition of electronics products.



SPECIFICATIONS

Mechanical



Dimension (mm)	RL0510 (0402)	RL0816 (0603)	RL1220 (0805)
L	1.00 ± 0.10	1.60 ± 0.10	2.00 ± 0.20
W	0.50 ± 0.10	0.80 ± 0.10	1.25 ± 0.20
P	0.20 ± 0.10	0.20 ± 0.15	0.40 ± 0.20
T	0.35 ± 0.10	0.45 ± 0.10	0.40 ± 0.20

Equivalent circuit



Electrical

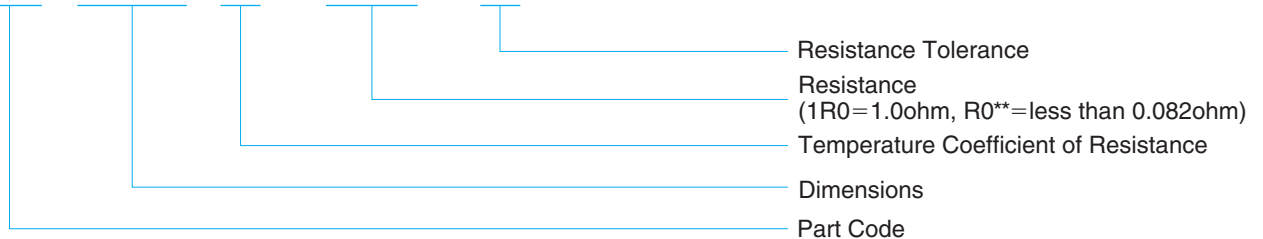
Type	RL0510	RL0816		RL1220			
Power	1/8W	1/8W		1/4W			
Resistance Tolerance (code)	±1%(F) ±2%(G)	±2%(G) ±5%(J)	±1%(F) ±2%(G)	±5%(J)	±2%(G) ±5%(J)	±1%(F) ±2%(G)	
Resistance Range(ohm)	0.1~4.7	0.1~0.68	1~6.8	0.010~0.018	0.022~0.082	0.1~10.0	0.068~0.47
Temperature Coefficient of Resistance ppm/°C(code)	0~+200 (S)	0~+200 (S)		0~+350 (T)		0~+200 (S)	±100 (R)
Resistance Value	E-6	E-6	E-12	E-12			E-6
Package	10,000pcs/reel	5000pcs/reel					

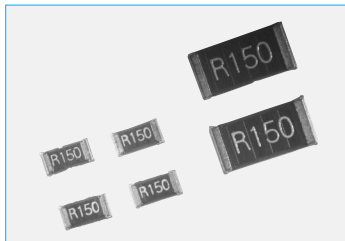
TCR of 0 to 200ppm/degree C for 10 to 82 milliohms in RL1220 series are also available.



PART NUMBER

RL 1220 S - 1R0 - F





RL series, low resistance value chip resistors with short-side electrodes for high-precision current detection.



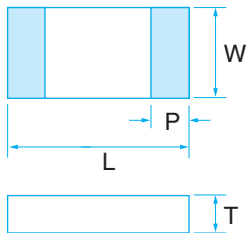
Original resistance materials assure resistance tolerance of $\pm 1\%$ and thermal coefficient of resistance of $\pm 100\text{ppm/degree C}$

Our SMD components contribute to lead-free composition of electronics products.



SPECIFICATIONS

Mechanical



Dimension (mm)	RL1632 (1206)	RL3264 (2512)
L	3.20 ± 0.20	6.40 ± 0.20
W	1.60 ± 0.20	3.20 ± 0.20
P	1.00 ± 0.15	2.00 ± 0.15
T	0.50 ± 0.15	0.50 ± 0.15

Equivalent circuit



Electrical

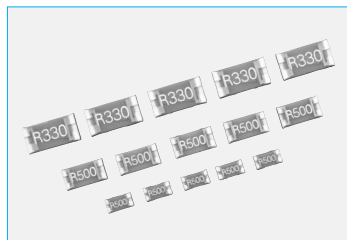
Type	RL1632					RL3264				
Power	1/2W					1W				
Resistance Tolerance (code)	$\pm 2\%(G)$		$\pm 1\%(F)$ $\pm 2\%(G)$			$\pm 2\%(G)$		$\pm 1\%(F)$ $\pm 2\%(G)$		
Resistance Range(ohm)	0.01~0.015	0.018~0.022	0.027	0.033~0.047	0.056~0.47	0.01~0.015	0.018~0.022	0.027	0.033~0.047	0.056~0.47
Temperature Coefficient of Resistance ppm/°C(code)	0~+500 (T)	0~+350 (T)	0~+200 (S)	± 100 (R)		0~+500 (T)	0~+350 (T)	0~+200 (S)	± 100 (R)	
Resistance Value	E-12					E-12				
Package	5000pcs/reel					5000pcs/reel				



PART NUMBER

RL 1632 S - R033 - F





High-precision current-detection elements

RL-L series: four-terminal type



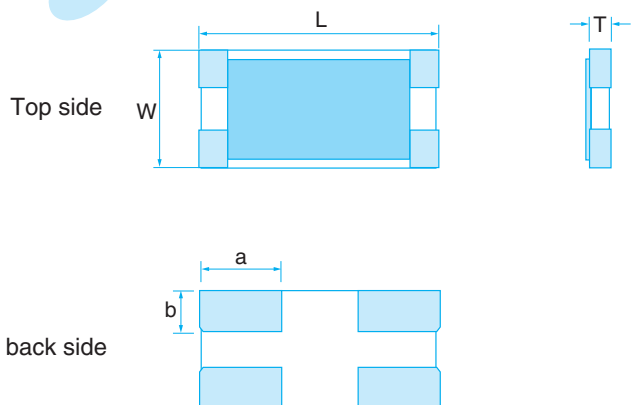
Newly released: A four-terminal structure with separate voltage- and current-terminals assures high-precision TCR of 50ppm/degree C and 0.5% tolerance.

NEW



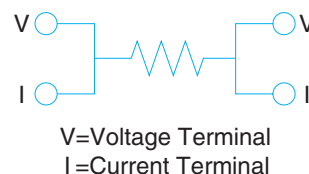
SPECIFICATIONS

Mechanical



Dimension (mm)	RL1632L4 (1206)	RL2550L4 (2010)	RL3264L4 (2512)
L	3.2±0.2	5.0±0.2	6.4±0.2
W	1.6±0.2	2.5±0.2	3.2±0.2
T	0.5±0.15	0.5±0.15	0.5±0.15
a	1.0±0.2	1.7±0.2	2.1±0.2
b	0.55±0.2	0.9±0.2	1.2±0.2

Equivalent circuit



Electrical

Type	RL1632L4	RL2550L4	RL3264L4		
Power	1/2W	3/4W	1W		
Resistance Tolerance (code)	±0.5%(D) ±1%(F)				
Resistance Range(ohm)	10~500m ohm		3~5m ohm	6~500m ohm	
Temperature Coefficientof Resistance	±50ppm/°C		±100ppm/°C	±50ppm/°C	
Terminal Resistance	10~47m ohm	50~500m ohm	3~8m ohm	10~47m ohm	50~500m ohm
	5 milliohms or less	20 milliohms or less	1 milliohms or less	5 milliohms or less	20 milliohms or less
Resistance Value	E-12 series 50, 500m ohm		E-12 series 3, 4, 5, 6, 7, 8, 50, 500m ohm		
Package	5000pcs/reel				

·Contact us for even lower resistance values.



PART NUMBER

RL 1632 L4 - R033 - F

