

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



These thin film low resistance value chip resistors are offered in international standard sizes. They exhibit excellent performance in resistance, noise performance, surface heat distribution and a lower surface temperature. Useful in many current sensing applications. Available in 1/10, 1/8, 1/4, 1/2 and 1 watt package.

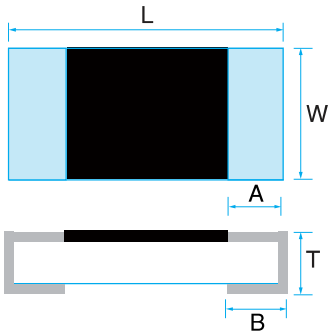
**NEW** Smallest in the market 0201 low resistance value chip resistor.

RoHS compliant



### SPECIFICATIONS

#### Mechanical



Dimension(Inch Size)	RL0603 (0201)	RL0510 (0402)		RL0816 (0603)	
		Single side structure	Double sides structure $R \leq 0.20\Omega$	Single side structure	Double sides structure $R \leq 0.082\Omega$
L	$0.60 \pm 0.05$	$1.00 \pm 0.05$		$1.60 \pm 0.10$	
W	$0.30 \pm 0.03$	$0.50 \pm 0.05$		$0.80 \pm 0.10$	
A	$0.12 \pm 0.05$	$0.15 \pm 0.10$		$0.20 \pm 0.15$	
B	$0.15 \pm 0.05$	$0.25 \pm 0.10$	$0.15 \pm 0.10$	$0.25 \pm 0.20$	$0.20 \pm 0.15$
T	$0.28 + 0.03 / - 0.05$	$0.35 \pm 0.10$	$0.35 + 0.15 / - 0.10$	$0.45 \pm 0.10$	$0.45 + 0.15 / - 0.10$

(unit : mm)

Dimension(Inch Size)	RL1220 (0805)		RL1632 (1206)	RL3264 (2512)
	Single side structure	Double sides structure $R \leq 0.082\Omega$		
L	$2.00 \pm 0.20$		$3.20 \pm 0.20$	$6.40 \pm 0.20$
W	$1.25 \pm 0.20$		$1.60 \pm 0.20$	$3.20 \pm 0.20$
A	$0.40 \pm 0.20$		—	—
B	$0.40 \pm 0.20$		$1.00 \pm 0.15$	$2.00 \pm 0.15$
T	$0.40 \pm 0.10$	$0.40 + 0.15 / - 0.10$	$0.50 \pm 0.15$	$0.50 \pm 0.15$

(unit : mm)

#### Electrical

Type	RL0603	RL0510	RL0816		RL1220		
Power	1/10W	1/8W	1/8W		1/4W		
Tolerance %(code)	$\pm 2\%$ (G) $\pm 5\%$ (J)	$\pm 1\%$ (F) $\pm 2\%$ (G)	$\pm 1\%$ (F) $\pm 2\%$ (G)	$\pm 1\%$ (F)	$\pm 1\%$ (F) $\pm 2\%$ (G)		
Resistance Range( $\Omega$ )	0.1~4.7	0.05~4.7	0.02~0.091	0.1~6.8	0.01~0.039	0.043~0.091	0.1~10
TCR ppm / $^{\circ}$ C(code)	0~200(S)		0~200(S)	0~100(R) 0~200(S)	0~350(T)	0~200(S) 0~350(T)	0~100(R) 0~200(S)
Resistance Value	E-24						
Package	10,000pcs/reel			5,000pcs/reel			

· Please contact us for tolerance  $\pm 1\%$  in RL0603.

· Please contact us for tolerance  $\pm 0.5\%$  for 0.1 $\Omega$  or more in RL0816, as well as  $\pm 0.5\%$  for 0.047 $\Omega$  or more in RL1220.

Type	RL1632						RL3264				
Power	1/2W						1W				
Tolerance %(code)	$\pm 2\%$ (G)		$\pm 1\%$ (F) $\pm 2\%$ (G)		$\pm 0.5\%$ (D) $\pm 1.0\%$ (F)	$\pm 2\%$ (G)	$\pm 1\%$ (F) $\pm 2\%$ (G)				
Resistance Range( $\Omega$ )	0.01~0.016	0.018~0.024	0.027~0.03	0.033~0.051	0.056~0.47	0.51~4.7	0.01~0.015	0.018~0.022	0.027	0.033~0.047	0.056~0.47
TCR ppm / $^{\circ}$ C(code)	0~+500 (T)	0~+350 (T)	0~+200 (S)	$\pm 100$ (R)		0~+500 (T)	0~+350 (T)	0~+200 (S)	$\pm 100$ (R)		
Resistance Value	E-24, 0.05 $\Omega$						E-12				
Package	5,000pcs/reel						5,000pcs/reel				



### PART NUMBER

**RL 1220 S - 1R0 - F**

Resistance Tolerance

Resistance  
(1R0=1.0 $\Omega$ , R0\*\*=less than 0.091 $\Omega$ )  
RL1632 series and RL3264 series :  
4 digits

Temperature Coefficient of Resistance

Dimensions

Part Code