

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.

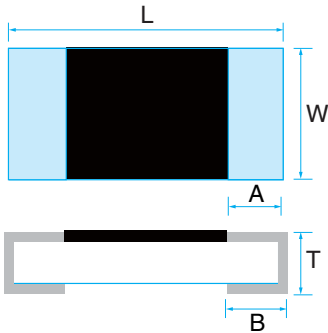
NEW Smallest in the market 0201 low resistance value chip resistor.

RoHS compliant



SPECIFICATIONS

Mechanical



Dimension(Inch Size)	RL0603 (0201)	RL0510 (0402)		RL0816 (0603)	
		Single side structure	Double sides structure R \leq 0.20 Ω	Single side structure	Double sides structure R \leq 0.082 Ω
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 Ω		
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(Ω)	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 Ω or more in RL0816, as well as \pm 0.5% for 0.047 Ω 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(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	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 Ω						E-12				
Package	5,000pcs/reel						5,000pcs/reel				



PART NUMBER

RL 1220 S - 1R0 - F

Resistance Tolerance

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

Temperature Coefficient of Resistance

Dimensions

Part Code