



Product Family: [Current Sense Chip Resistor \(4 Terminal\)](#)

Part Number Series: [RL-L4 Series](#)

	<p>Construction:</p> <ul style="list-style-type: none"> • 4-terminals, separate voltage and current terminals • High Purity Alumina Substrate • Wrap around electrodes • 100% matte tin over Ni terminations (RoHS compliant and Pb Free) 	<p>Features:</p> <ul style="list-style-type: none"> • 1206, 2010 and 2512 English sizes • Power ratings of 1/2W, 3/4W and 1W • Tolerances down to 0.5% • Resistance down to 3mΩ
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Description:
 These four terminal, low resistance chip resistors provide separate voltage and current terminals for high precision. Useful in many current sensing applications. Available in power ratings of 1/2, 3/4 and 1.0 watt.

Product Dimensions and Schematic:

<p>V=Voltage Terminal I=Current Terminal</p>	<table border="1"> <thead> <tr> <th>Dimension</th> <th>L</th> <th>W</th> <th>H</th> <th>a</th> <th>b</th> </tr> </thead> <tbody> <tr> <td>RL1632 (1206)</td> <td>0.126 ±0.008</td> <td>0.063 ±0.008</td> <td>0.020 ±0.006</td> <td>0.039 ±0.008</td> <td>0.022 ±0.008</td> </tr> <tr> <td>RL2550 (2010)</td> <td>0.197 ±0.008</td> <td>0.098 ±0.008</td> <td>0.020 ±0.006</td> <td>0.067 ±0.008</td> <td>0.035 ±0.008</td> </tr> <tr> <td>RL3264 (2512)</td> <td>0.252 ±0.008</td> <td>0.126 ±0.008</td> <td>0.020 ±0.006</td> <td>0.083 ±0.008</td> <td>0.047 ±0.008</td> </tr> </tbody> </table> <p>Notes: All dimensions are shown in inches, but use metric size when ordering as shown in the part numbering section. English case sizes are shown in parenthesis above.</p>	Dimension	L	W	H	a	b	RL1632 (1206)	0.126 ±0.008	0.063 ±0.008	0.020 ±0.006	0.039 ±0.008	0.022 ±0.008	RL2550 (2010)	0.197 ±0.008	0.098 ±0.008	0.020 ±0.006	0.067 ±0.008	0.035 ±0.008	RL3264 (2512)	0.252 ±0.008	0.126 ±0.008	0.020 ±0.006	0.083 ±0.008	0.047 ±0.008
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Part Numbering: Ex: RL1632L4R033F-*

Product Designator	Metric Size W x L (English size)	4 Terminal Indicator	Resistance Value	Resistance Tolerance
RL	1632 (1206) 2550 (2010) 3264 (2512)	L4	Use 4 digit code for all values. "R" denotes decimal position.	±0.5% (D) ±1.0% (F)

* Note : All part numbers will automatically have a "-T#-LF" appended to the end of them. The "-T#" indicates the taped quantity per reel and will be assigned by us based on the quantity ordered. The "-LF" is used to indicate RoHS compliance/Pb Free (RoHS 6/6). These parts are no longer available in non-RoHS.

Examples:

Part Number	Product Designator	Size (English)	4 Terminal Indicator	Resistance (milliohms)	Tolerance
RL1632L4R033F*	RL	1632 (1206)	L4	R033 (0.033 ohm)	F (±1.0%)
RL2550L4R470D*	RL	2550 (2010)	L4	R470 (0.470 ohm)	D (±0.5%)
RL3264L4R005F*	RL	3264 (2512)	L4	R005 (0.005 ohm)	F (±1.0%)

Electrical Specifications:

Type	RL1632	RL2550	RL3264
English Size	1206	2010	2512
Power	1/2 Watt	3/4 Watt	1 Watt
Tolerance% (code)	±0.5(D) ±1.0(F)		
Resistance Range (mΩ)	10~500mΩ		
Resistance Offering	E-24 Values plus 50mΩ, 500mΩ		
Terminal Resistance	10~47mΩ = ≤5mΩ 50mΩ~500mΩ = ≤20mΩ		
TCR ppm/°C (code)	±50		
Operating Temperature	-40°C to +125°C (refer to derating curve)		
Packaging	1,000 pcs/reel or 5,000 pcs/reel		

Power Derating Curve: