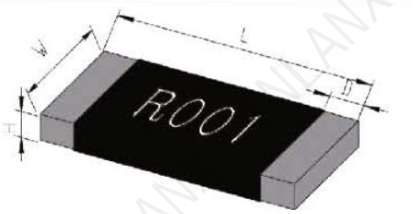
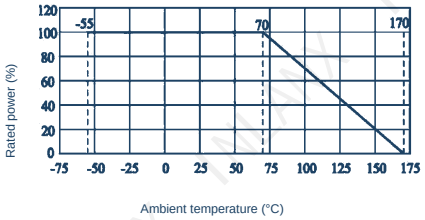
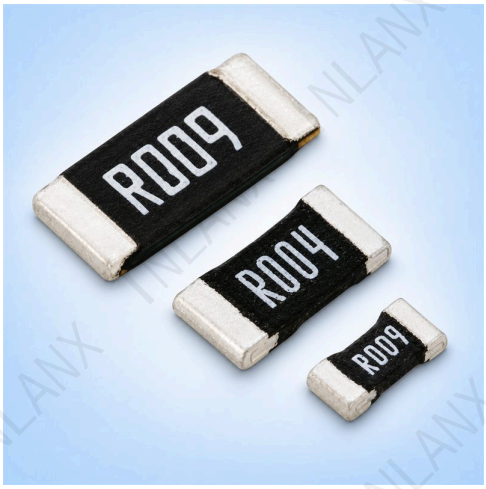
RL Low Ohm Chip Resistors

Outline Drawing



Derating Curve





Quality grade: inverted triangle G mark, J, QB. Detail specification: Q/RU 492-2023.
Generic specification: GB/T 5729-2003.

Outline Dimensions • mm

Model	L	W	H	D
RL0805	2.00±0.25	1.25±0.25	0.60±0.20	0.50±0.30
RL1206	3.15±0.25	1.45±0.25	0.55±0.20	0.55±0.30
RL2010 (>3 mΩ)	5.00±0.25	2.40±0.25	0.60±0.20	0.80±0.30
RL2010 (≤3 mΩ)	5.00±0.20	2.50±0.20	0.60±0.20	1.50±0.30
RL2512	6.40±0.25	3.20±0.25	0.70±0.20	0.90±0.60

Electrical Specifications

Model	Rated W (code)	TCR ×10^-6/K (code)	Range or available values mΩ
RL0805	0.25 (V), 0.5 (U)	±75 (W), ±150 (K)	1~25
RL1206	1	±50 (D)	8, 10, 12, 15, 20, 25, 30, 33, 40
RL1206	1	±75 (W), ±100 (E)	3, 4, 5, 7, 8, 10, 12, 15, 20, 25, 30, 33, 40
RL2010	0.5 (U), 0.75 (Q), 1, 1.5 (A)	±50 (D)	1, 2, 3
RL2010	1	±75 (W)	4, 5, 10, 15, 20, 30, 50, 68, 75, 100
RL2010	2 (S)	±75 (W)	4, 5, 10, 15, 20, 30, 50, 68, 75
RL2512	2 (S), 3 (R)	±25 (C)	3, 4, 5, 6, 7, 18, 20, 22, 25, 30, 33, 35, 39, 40, 47, 50, 60, 68, 70, 75, 80, 82, 90, 91, 100, 120, 150, 180, 200
RL2512	2 (S), 3 (R)	±50 (D), ±75 (W)	1, 2, 3, 4, 5, 6, 7, 8, 8.5, 9, 10, 12, 15, 18, 20, 22, 25, 30, 33, 35, 39, 40, 47, 50, 60, 68, 70, 75, 80, 82, 90, 91, 100, 120, 150, 180, 200

Main Inspection Items

Item	Requirement	Test method
Dielectric withstand	No breakdown or arcing; leakage ≤1 mA	Apply 40 to 60 Hz AC with 400 V peak at 100 V/s for (60±5) s
Temperature coefficient	Within resistance-tolerance range	-55℃ to 125℃
Solderability	Electrode solder coverage ≥95%	(245±5)℃, (3±0.5) s
Resistance to soldering heat	No visible damage; marking legible; ΔR≤±1.0%	(260±5)℃, (10±1) s
Endurance at 70℃	ΔR≤±1.0%	(70±2)℃, UR (≤Umax), 1000 h intermittent DC load

Ordering Information

RL2512FTDSR005

Model / F±1%, G±2%, J±5% / T tape packaging / TCR C±25, D±50, W±75, E±100, K±150×10^-6/K / Power V 0.25W, U 0.5W, T or blank 1W, S 2W, R 3W / Nominal resistance R005=5 mΩ. Q 0.75W and A 1.5W are listed in the ratings table.