



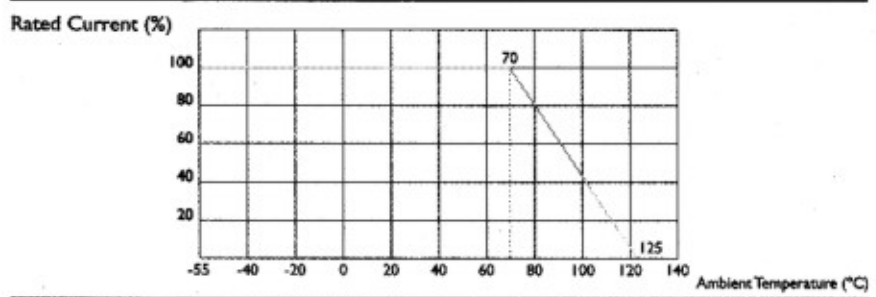
Thick Film Chip Resistors/RL Series (LOW OHM)



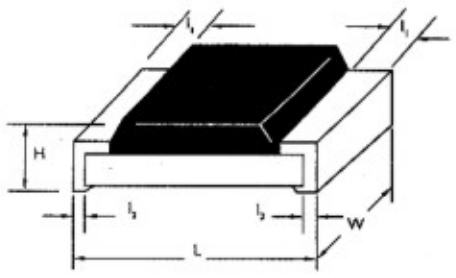
FEATURES

- Current Sensing of Desktop & NoteBook PC
- Resistance Values Down to 0.010 Ohms
- Highly Reliable Multilayer Electrode Construction
- Low Inductance
- High Speed Logic Circuits

DERATING CURVE



DIMENSIONS



Unit : mm

STYLE	L	W	H	l ₁	l ₂
RL0402	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10
RL0603	1.60±0.10	0.80±0.10	0.45±0.10	0.25±0.15	0.25±0.15
RL0805	2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.35±0.20
RL1206	3.10±0.10	1.60±0.10	0.55±0.10	0.45±0.25	0.40±0.25
RL1210	3.10±0.10	2.60±0.15	0.55±0.10	0.50±0.20	0.50±0.20
RL2010	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.20	0.50±0.20
RL2512	6.35±0.10	3.20±0.15	0.55±0.10	0.60±0.20	0.50±0.20

ELECTRICAL CHARACTERISTICS

STYLE	RL0402	RL0603	RL0805	RL1206	RL1210	RL2010	RL2512
Power Rating at 70°C	1/16W	1/10W	1/8W	1/4W	1/1W	3/4W	1W
Operating Temp. Range	-55°C to +125°C						
Derated to 0 Load at	+125°C						
Resistance Range	0.1Ω ~ 0.99Ω						
Temperature Coefficient							
10mΩ ≤ Rn < 100mΩ			±1500ppm/°C				
100mΩ ≤ Rn < 1Ω	±800ppm/°C		±600ppm/°C				
Resistance Tolerance	±1% ±5%						

* 50mR ~ 100mR on Request for RL0402

ELECTRICAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		1% TOL.	5% TOL.
Temperature Coefficient	MIL-STD-202F, Method 304	LCT to UCT	by Type	
Thermal Shock	MIL-STD-202F, Method 107G	25 Cycles, -65°C to +125°C (Step by Step 2 min.)	±1%	±1%
Low Temperature Operation	MIL-R-55342D, Para.4.7.4	One Hour at -55°C Followed by 45 Minutes RCWV	±1%	±1%
Short Time Overload	MIL-R-55342D, Para.4.7.5	2.5 Times RCWV for 5 Seconds	±1%	±2%
Insulation Resistance	JIS-C-5202, 5.6	RCOV for 1 Minute	>10GΩ	
Dielectric Withstand Voltage	JIS-C-5202, 5.7	R.M.S. for 1 Minute	by Type	
Resistance to Soldering Heat	MIL-STD-202F, Method 210C	Soldered to Test Board at 260°C for 10 Seconds	±1%	±1%
Moisture Resistance	MIL-STD-202F, Method 106F	42 Cycles, Total 1000 Hours	±2%	±2%
Life	MIL-STD-202F, Method 108G	1000 Hours at 70°C RCWV Intermittent	±2%	±3%
Solderability	JIS-C-5202, 6.11	230°C for 5 Seconds	>95% Coverage	