



RL-7550-2

LOW DCR/LOW PROFILE SMD INDUCTORS



FEATURES

- Enclosed in a rugged case to provide optimum pick and place operations.
- High inductance / high current ultra low profile inductor.
- Low profile. Great for applications when space is at a premium.

APPLICATIONS

Excellent as DC-DC Converter used in notebook computers, PDA, cell phones, step-up or step-down converters and flash memory.

MATERIALS CONSTRUCTION

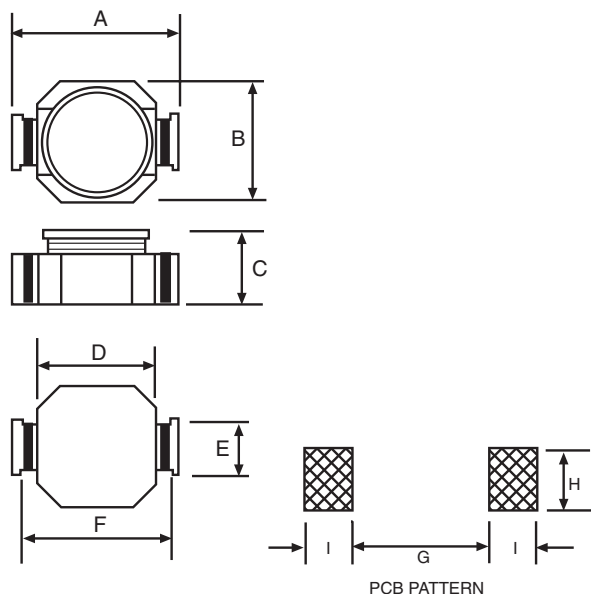
- Core: Ferrite DR Core
- Base: Phenolic
- Wire: Enameled Copper Wire
- Adhesive: Epoxy Resin

GENERAL SPECIFICATIONS

Temperature rise: 15°C Typical at I_{rms}
 Operating Temperature: -25°C to +85°C
 Storage Temperature: -40°C to +125°C
 Resistance to solder heat: 260°C for 10 seconds
 Rated current: Based on temperature
 & $\Delta L/LOA = 10\%$ Typical at I_{sat}

TAPE AND REEL PACKAGING

Part Number	Pieces per reel	Plastic reel size
RL-7550-2	2,000	13"



MECHANICAL DIMENSION (m/m)

A	B	C	D	E	F	G	H	I
7.0±0.3	5.2±0.3	2.92 ⁺⁰	5.0±0.3	2.0±0.2	6.4±0.3	4.0 Ref	2.5 Ref	1.6 Ref



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SINCE 1955

Part Number	Inductance (μH)	Testing Freq. (Hz)	SRF (MHz) Typ.	DCR (Ω) Max.	I _{ms} (A)	I _{sat} (A)
RL-7550-2-1R0M	1.0 ± 20%	0.1V / 100K	130	0.050	2.90	2.90
RL-7550-2-1R5M	1.5 ± 20%	0.1V / 100K	115	0.050	2.80	2.60
RL-7550-2-2R2M	2.2 ± 20%	0.1V / 100K	90	0.070	2.40	2.30
RL-7550-2-3R3M	3.3 ± 20%	0.1V / 100K	70	0.080	2.00	2.00
RL-7550-2-4R7M	4.7 ± 20%	0.1V / 100K	50	0.090	1.50	1.50
RL-7550-2-6R8M	6.8 ± 20%	0.1V / 100K	45	0.130	1.40	1.20
RL-7550-2-100M	10.0 ± 20%	0.1V / 100K	35	0.160	1.10	1.10
RL-7550-2-150M	15.0 ± 20%	0.1V / 100K	30	0.230	1.20	0.90
RL-7550-2-220M	22.0 ± 20%	0.1V / 100K	20	0.370	0.80	0.70
RL-7550-2-330M	33.0 ± 20%	0.1V / 100K	15	0.510	0.60	0.58
RL-7550-2-470M	47.0 ± 20%	0.1V / 100K	14	0.640	0.50	0.50
RL-7550-2-680M	68.0 ± 20%	0.1V / 100K	11	0.860	0.40	0.40
RL-7550-2-101M	100.0 ± 20%	0.1V / 100K	9.0	1.270	0.30	0.31
RL-7550-2-151M	150.0 ± 20%	0.1V / 100K	6.0	2.000	0.25	0.27
RL-7550-2-221M	220.0 ± 20%	0.1V / 100K	5.5	3.110	0.20	0.22

Note:

1. Inductance measured with meter HP 4294A at specified frequency with the applied voltage.
2. DCR measured by Milliohm meter HP4338A.



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