

NATIONAL SEMICONDUCTOR SIMPLE SWITCHER APPLICATIONS

DESCRIPTION

- Powerline Choke

ENVIRONMENTAL DATA

- Storage temperature range:
-55°C to +130°C
- Operating temperature range:
-40°C to +130°C

PACKAGING INFORMATION

- Contact Customer Support 800.645.5828

FEATURES & APPLICATIONS

- This series of powerline chokes has inductance values from 100 μH to 680 μH with saturation currents available from 0.70 A to 2.79 A
- High-saturation material makes coils ideal for use in switching regulated power supply applications
- The size of the coils make them easy to install in equipment

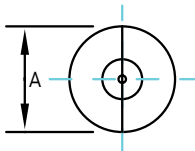
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

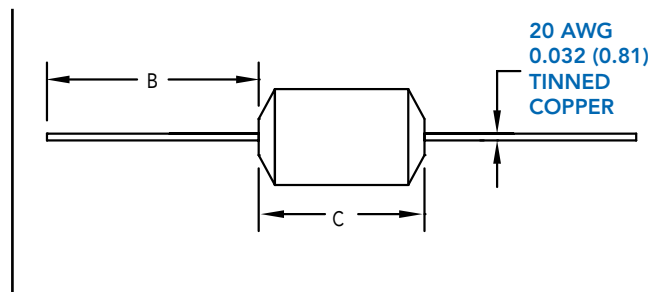
U.S. Standard (mm)

| PART NUMBER | A (MAX.) | B (MIN.) | C (MAX.) | PART WEIGHT |
|-------------|---------------|--------------|---------------|---------------|
| RL-1950 | 0.453 (11.51) | 1.00 (25.40) | 0.900 (22.86) | 2.9g (0.10oz) |
| RL-1951 | 0.453 (11.51) | 1.00 (25.40) | 0.900 (22.86) | 2.9g (0.10oz) |
| RL-1952 | 0.453 (11.51) | 1.00 (25.40) | 0.900 (22.86) | 2.9g (0.10oz) |
| RL-1953 | 0.453 (11.51) | 1.00 (25.40) | 0.900 (22.86) | 2.9g (0.10oz) |
| RL-1955 | 0.453 (11.51) | 1.00 (25.40) | 0.900 (22.86) | 2.9g (0.10oz) |
| RL-3901 | 0.250 (6.35) | 1.00 (25.40) | 0.650 (16.51) | 1.7g (0.06oz) |

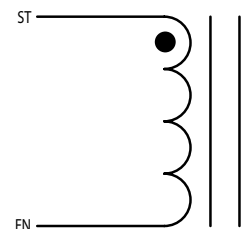
TOP VIEW



SIDE VIEW



SCHEMATIC



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NATIONAL SEMICONDUCTOR

| Renco Part No. | Inductance (μ H) | DCR Max. (Ohms) | Isat (A) | Irms (A) |
|----------------|--------------------------|--------------------|-------------|-------------|
| RL-1950 | 680.0 | 0.575 | 0.70 | 1.00 |
| RL-1951 | 470.0 | 0.400 | 0.82 | 1.20 |
| RL-1952 | 330.0 | 0.300 | 1.00 | 1.60 |
| RL-1953 | 220.0 | 0.175 | 1.25 | 1.60 |
| RL-1955 | 100.0 | 0.090 | 2.79 | 1.60 |
| RL-3901 | 330.0 | 0.665 | 0.70 | 0.40 |

NOTES:

1. INDUCTANCE \pm 10% TESTED AT 10 kHz, 0.1 Vrms
2. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
3. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 5%
4. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C

