



Features

- Formerly J. W. Miller® model
- Current rating up to 90 mA
- Inductance range: 1000 μ H to 120,000 μ H
- High Q
- Shielded construction
- RoHS compliant*

Applications

- DC/DC converters
- Power supplies
- Desktop notebooks
- Output chokes

RL181S Series - Radial Lead RF Choke

Electrical Specifications (@ 25 °C)

| Part Number | Inductance (μ H) | Tol. | Q (Min.) | Test Frequency | | SRF (MHz) Typ. | DCR (Ω) Max. | I dc (mA) |
|----------------|-----------------------|-----------|----------|----------------|--------|----------------|-----------------------|-----------|
| | | | | L | Q | | | |
| RL181S-102J-RC | 1000 | $\pm 5\%$ | 70 | 1 KHz | 50 KHz | 0.77 | 3.4 | 90 |
| RL181S-122J-RC | 1200 | $\pm 5\%$ | 70 | 1 KHz | 50 KHz | 0.70 | 3.7 | 75 |
| RL181S-152J-RC | 1500 | $\pm 5\%$ | 70 | 1 KHz | 50 KHz | 0.64 | 4.0 | 70 |
| RL181S-182J-RC | 1800 | $\pm 5\%$ | 70 | 1 KHz | 50 KHz | 0.57 | 4.5 | 65 |
| RL181S-222J-RC | 2200 | $\pm 5\%$ | 70 | 1 KHz | 50 KHz | 0.51 | 5.2 | 60 |
| RL181S-272J-RC | 2700 | $\pm 5\%$ | 70 | 1 KHz | 50 KHz | 0.48 | 5.8 | 55 |
| RL181S-332J-RC | 3300 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.44 | 6.1 | 50 |
| RL181S-392J-RC | 3900 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.41 | 7.2 | 45 |
| RL181S-472J-RC | 4700 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.38 | 7.5 | 40 |
| RL181S-562J-RC | 5600 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.35 | 8.4 | 40 |
| RL181S-682J-RC | 6800 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.32 | 9.7 | 35 |
| RL181S-822J-RC | 8200 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.28 | 10.4 | 30 |
| RL181S-103J-RC | 10,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.25 | 12.1 | 25 |
| RL181S-123J-RC | 12,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.22 | 13.0 | 25 |
| RL181S-153J-RC | 15,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.22 | 15.0 | 22 |
| RL181S-183J-RC | 18,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.19 | 17.0 | 21 |
| RL181S-223J-RC | 22,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.19 | 19.5 | 20 |
| RL181S-273J-RC | 27,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.16 | 22.0 | 18 |
| RL181S-333J-RC | 33,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.16 | 26.0 | 17 |
| RL181S-363J-RC | 36,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.14 | 27.0 | 16 |
| RL181S-393J-RC | 39,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.12 | 45.0 | 15 |
| RL181S-473J-RC | 47,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.12 | 52.0 | 13 |
| RL181S-563J-RC | 56,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.12 | 58.0 | 12 |
| RL181S-683J-RC | 68,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.09 | 67.0 | 11 |
| RL181S-823J-RC | 82,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.09 | 71.0 | 10 |
| RL181S-104J-RC | 100,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.09 | 82.0 | 9 |
| RL181S-124J-RC | 120,000 | $\pm 5\%$ | 100 | 1 KHz | 50 KHz | 0.09 | 97.0 | 8 |

General Specifications

Rated Current..... Inductance drop 10 %
 Operating Temperature -55 °C to +105 °C
 Storage Temperature -55 °C to +105 °C

Materials

Core Material..... Ferrite
 Wire Enameled copper
 Terminal Coating..... Sn

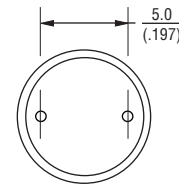
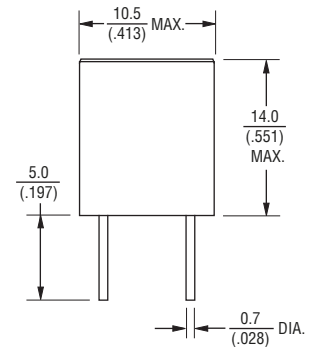
Marking

..... Value code on top of inductor

Packaging

Standard..... 100 pcs. per bag

Product Dimensions



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

How To Order

RL181S - 102J - RC

Model _____

Value/Tolerance Code (see table) _____

Compliance Code _____
 RC = RoHS Compliant

Example:
 RL181S-102J-RC = 1,000 μ H, $\pm 5\%$

Electrical Schematic



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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