



**BOURNS®**

## Features

- Formerly J. W. Miller® model
- Current rating up to 200 mA
- Inductance range: 100  $\mu$ H to 33,000  $\mu$ H
- High Q
- RoHS compliant\*

## Applications

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

## RL187 Series - Radial Lead RF Choke

### Electrical Specifications (@ 25 °C)

| Part Number   | Inductance ( $\mu$ H) | Tol.      | Q (Min.) | Test Frequency |          | SRF (MHz) Typ. | DCR ( $\Omega$ ) Max. | I dc (mA) |
|---------------|-----------------------|-----------|----------|----------------|----------|----------------|-----------------------|-----------|
|               |                       |           |          | L              | Q        |                |                       |           |
| RL187-101J-RC | 100                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 5.3            | 2.0                   | 200       |
| RL187-121J-RC | 120                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 4.5            | 2.0                   | 200       |
| RL187-151J-RC | 150                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 3.8            | 2.0                   | 200       |
| RL187-181J-RC | 180                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 3.3            | 3.0                   | 200       |
| RL187-221J-RC | 220                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 2.9            | 3.0                   | 200       |
| RL187-271J-RC | 270                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 2.6            | 3.0                   | 200       |
| RL187-331J-RC | 330                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 2.3            | 4.0                   | 200       |
| RL187-391J-RC | 390                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 2.1            | 4.0                   | 200       |
| RL187-471J-RC | 470                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 1.9            | 4.0                   | 200       |
| RL187-561J-RC | 560                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 1.7            | 4.0                   | 200       |
| RL187-681J-RC | 680                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 1.6            | 4.0                   | 200       |
| RL187-821J-RC | 820                   | $\pm 5\%$ | 80       | 796 KHz        | 796 KHz  | 1.4            | 6.0                   | 200       |
| RL187-102J-RC | 1000                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 1.3            | 6.0                   | 150       |
| RL187-122J-RC | 1200                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 1.2            | 9.0                   | 150       |
| RL187-152J-RC | 1500                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 1.1            | 9.0                   | 150       |
| RL187-182J-RC | 1800                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 1.0            | 9.0                   | 100       |
| RL187-222J-RC | 2200                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 0.9            | 13                    | 100       |
| RL187-272J-RC | 2700                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 0.8            | 13                    | 100       |
| RL187-332J-RC | 3300                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 0.7            | 13                    | 100       |
| RL187-392J-RC | 3900                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 0.6            | 13                    | 50        |
| RL187-472J-RC | 4700                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 0.6            | 18                    | 50        |
| RL187-562J-RC | 5600                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 0.5            | 18                    | 50        |
| RL187-682J-RC | 6800                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 0.5            | 26                    | 50        |
| RL187-822J-RC | 8200                  | $\pm 5\%$ | 90       | 252 KHz        | 252 KHz  | 0.4            | 26                    | 50        |
| RL187-103J-RC | 10,000                | $\pm 5\%$ | 100      | 79.6 KHz       | 79.6 KHz | 0.4            | 40                    | 40        |
| RL187-123J-RC | 12,000                | $\pm 5\%$ | 100      | 79.6 KHz       | 79.6 KHz | 0.4            | 40                    | 40        |
| RL187-153J-RC | 15,000                | $\pm 5\%$ | 100      | 79.6 KHz       | 79.6 KHz | 0.4            | 60                    | 40        |
| RL187-183J-RC | 18,000                | $\pm 5\%$ | 100      | 79.6 KHz       | 79.6 KHz | 0.3            | 60                    | 30        |
| RL187-223J-RC | 22,000                | $\pm 5\%$ | 100      | 79.6 KHz       | 79.6 KHz | 0.3            | 80                    | 30        |
| RL187-273J-RC | 27,000                | $\pm 5\%$ | 100      | 79.6 KHz       | 79.6 KHz | 0.3            | 80                    | 30        |
| RL187-333J-RC | 33,000                | $\pm 5\%$ | 100      | 79.6 KHz       | 79.6 KHz | 0.3            | 80                    | 30        |

### How To Order

**RL187 - 472J - RC**

Model \_\_\_\_\_  
Value/Tolerance Code (see table) \_\_\_\_\_  
Compliance Code \_\_\_\_\_  
RC = RoHS Compliant

Example:  
RL187-472J-RC = 4700  $\mu$ H,  $\pm 5\%$

### Electrical Schematic



### 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

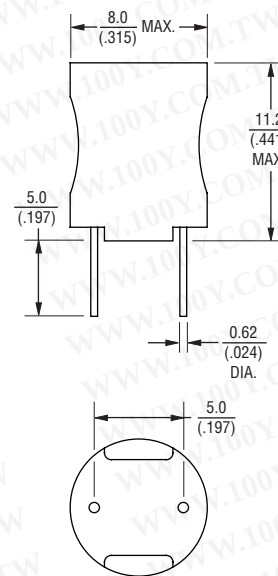
### Marking

..... Value code on side of inductor

### Packaging

Standard..... 100 pcs. per bag

### Product Dimensions



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

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