

Features

- Formerly J. W. Miller® model
- High Q value
- Inductance range: 0.15 μ H to 33 μ H
- RoHS compliant*

Applications

- Filters
- Output chokes

9310 Series Molded Axial Inductor

Electrical Specifications

| Bourns Part No. | Inductance | | Q Min. | Test Frequency (MHz) | SRF (MHz) Min. | DCR (Ω) Max. | Idc (mA) |
|-----------------|------------|----------|--------|----------------------|----------------|-----------------------|----------|
| | (μ H) | Tol. (%) | | | | | |
| 9310-00-RC | 0.15 | ± 20 | 50 | 25 | 525 | 0.030 | 2450 |
| 9310-02-RC | 0.22 | ± 20 | 50 | 25 | 450 | 0.055 | 1900 |
| 9310-04-RC | 0.33 | ± 20 | 45 | 25 | 360 | 0.090 | 1400 |
| 9310-06-RC | 0.47 | ± 20 | 45 | 25 | 310 | 0.120 | 1225 |
| 9310-07-RC | 0.56 | ± 10 | 50 | 25 | 280 | 0.135 | 1220 |
| 9310-08-RC | 0.68 | ± 10 | 50 | 25 | 250 | 0.15 | 1100 |
| 9310-10-RC | 0.82 | ± 10 | 50 | 25 | 220 | 0.22 | 900 |
| 9310-12-RC | 1.0 | ± 10 | 50 | 25 | 200 | 0.29 | 830 |
| 9310-14-RC | 1.2 | ± 10 | 33 | 7.9 | 180 | 0.42 | 650 |
| 9310-16-RC | 1.5 | ± 10 | 33 | 7.9 | 160 | 0.50 | 600 |
| 9310-18-RC | 1.8 | ± 10 | 33 | 7.9 | 150 | 0.65 | 525 |
| 9310-20-RC | 2.2 | ± 10 | 33 | 7.9 | 135 | 0.95 | 435 |
| 9310-22-RC | 2.7 | ± 10 | 33 | 7.9 | 120 | 1.20 | 385 |
| 9310-24-RC | 3.3 | ± 10 | 33 | 7.9 | 110 | 2.00 | 300 |
| 9310-26-RC | 3.9 | ± 10 | 33 | 7.9 | 100 | 2.30 | 280 |
| 9310-28-RC | 4.7 | ± 10 | 33 | 7.9 | 90 | 2.60 | 260 |
| 9310-30-RC | 5.6 | ± 10 | 45 | 7.9 | 60 | 0.32 | 750 |
| 9310-32-RC | 6.8 | ± 10 | 50 | 7.9 | 55 | 0.50 | 600 |
| 9310-34-RC | 8.2 | ± 10 | 50 | 7.9 | 50 | 0.60 | 545 |
| 9310-36-RC | 10 | ± 10 | 55 | 7.9 | 45 | 0.90 | 445 |
| 9310-38-RC | 12 | ± 10 | 65 | 2.5 | 42 | 1.1 | 404 |
| 9310-40-RC | 15 | ± 10 | 65 | 2.5 | 40 | 1.4 | 370 |
| 9310-42-RC | 18 | ± 10 | 75 | 2.5 | 34 | 2.3 | 280 |
| 9310-44-RC | 22 | ± 10 | 75 | 2.5 | 30 | 2.5 | 265 |
| 9310-46-RC | 24 | ± 10 | 60 | 2.5 | 26 | 2.5 | 265 |
| 9310-48-RC | 27 | ± 10 | 60 | 2.5 | 25 | 2.6 | 260 |
| 9310-50-RC | 30 | ± 10 | 65 | 2.5 | 19 | 2.8 | 255 |
| 9310-52-RC | 33 | ± 10 | 65 | 2.5 | 19 | 3.0 | 250 |

General Specifications

Temperature Rise 35 °C at Idc
 Operating Temperature -55 °C to +105 °C
 Storage Temperature -55 °C to +105 °C
 Dielectric Strength 1000 Vrms

Materials

Core Ferrite
 Wire Enameled copper
 Terminal Coating Sn
 Packaging
 Standard 1000 pcs. per bag
 Optional 1000 pcs. per 14-inch reel

How to Order

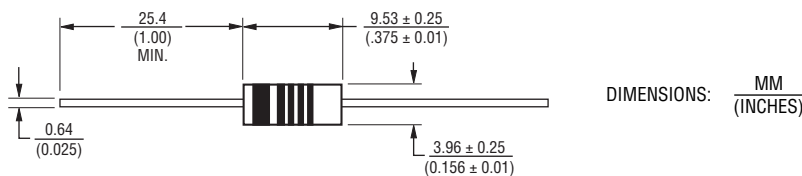
9310 - 02 - - - RC

Model _____
 Value Code _____
 Two-digit code from table
 (Example: -02 = 0.22 μ H)
 Packaging Code _____
 Blank = 1000 pcs./bag
 TR = 1000 pcs./14-inch reel
 Compliance Code _____
 RC = RoHS compliant*

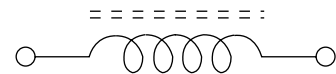
Examples:

- 9310-00-RC = 0.15 μ H packaged 1000 pcs./bag.
- 9310-18-TR-RC = 1.8 μ H packaged 1000 pcs./14-inch reel.

Product Dimensions



Electrical Schematic



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

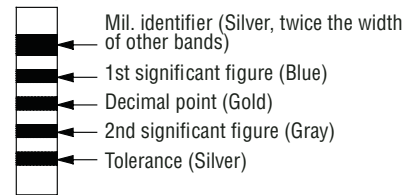
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BOURNS®

Typical Part Marking - MIL-STD Color Code

| Color | 1st & 2nd Significant Figure or Decimal Point | Multiplier | Tolerance |
|--------|---|------------|-----------|
| Black | 0 | 1 | |
| Brown | 1 | 10 | |
| Red | 2 | 100 | |
| Orange | 3 | 1000 | |
| Yellow | 4 | | |
| Green | 5 | | |
| Blue | 6 | | |
| Violet | 7 | | |
| Gray | 8 | | |
| White | 9 | | |
| Silver | | | ± 10 % |
| Gold | Decimal Point | | ± 5 % |

Example for L value less than 10 μH
6.8 μH , ±10 %



Example for L value 10 μH and higher
270 μH , ±5 %

