

Features

- Formerly J. W. Miller® model
- High Q value
- Inductance range: 0.1 μ H to 1000 μ H
- RoHS compliant*

Applications

- Filters
- Output chokes

9230 Series Molded Axial Inductor

Electrical Specifications

| Bourns Part No. | Inductance | | Q Min. | Test Frequency (MHz) | SRF (MHz) Min. | DCR (Ω) Max. | Idc (mA) | Core Material |
|-----------------|------------|----------|--------|----------------------|----------------|-----------------------|----------|---------------|
| | (μ H) | Tol. (%) | | | | | | |
| 9230-94-RC | 0.10 | ± 10 | 40 | 25 | 690 | 0.07 | 1100 | Phenolic |
| 9230-96-RC | 0.12 | ± 10 | 40 | 25 | 650 | 0.08 | 1100 | Phenolic |
| 9230-00-RC | 0.15 | ± 10 | 38 | 25 | 600 | 0.10 | 1100 | Phenolic |
| 9230-02-RC | 0.18 | ± 10 | 35 | 25 | 550 | 0.12 | 1010 | Phenolic |
| 9230-04-RC | 0.22 | ± 10 | 33 | 25 | 510 | 0.14 | 935 | Phenolic |
| 9230-06-RC | 0.27 | ± 10 | 33 | 25 | 430 | 0.16 | 875 | Phenolic |
| 9230-08-RC | 0.33 | ± 10 | 30 | 25 | 410 | 0.20 | 780 | Phenolic |
| 9230-10-RC | 0.39 | ± 10 | 30 | 25 | 380 | 0.30 | 640 | Phenolic |
| 9230-12-RC | 0.47 | ± 10 | 30 | 25 | 340 | 0.35 | 590 | Phenolic |
| 9230-14-RC | 0.56 | ± 10 | 30 | 25 | 300 | 0.50 | 495 | Phenolic |
| 9230-16-RC | 0.68 | ± 10 | 28 | 25 | 275 | 0.60 | 450 | Phenolic |
| 9230-18-RC | 0.82 | ± 10 | 28 | 25 | 250 | 0.85 | 380 | Phenolic |
| 9230-20-RC | 1.0 | ± 10 | 25 | 25 | 230 | 1.00 | 350 | Phenolic |
| 9230-22-RC | 1.2 | ± 10 | 25 | 7.9 | 150 | 0.18 | 825 | Ferrite |
| 9230-24-RC | 1.5 | ± 10 | 28 | 7.9 | 140 | 0.22 | 745 | Ferrite |
| 9230-26-RC | 1.8 | ± 10 | 30 | 7.9 | 125 | 0.30 | 640 | Ferrite |
| 9230-28-RC | 2.2 | ± 10 | 30 | 7.9 | 115 | 0.40 | 550 | Ferrite |
| 9230-30-RC | 2.7 | ± 10 | 37 | 7.9 | 100 | 0.50 | 495 | Ferrite |
| 9230-32-RC | 3.3 | ± 10 | 45 | 7.9 | 90 | 0.85 | 380 | Ferrite |
| 9230-34-RC | 3.9 | ± 10 | 45 | 7.9 | 82 | 1.0 | 350 | Ferrite |
| 9230-36-RC | 4.7 | ± 10 | 45 | 7.9 | 75 | 1.2 | 320 | Ferrite |
| 9230-38-RC | 5.6 | ± 10 | 50 | 7.9 | 68 | 1.8 | 260 | Ferrite |
| 9230-40-RC | 6.8 | ± 10 | 50 | 7.9 | 60 | 2.0 | 245 | Ferrite |
| 9230-42-RC | 8.2 | ± 10 | 55 | 7.9 | 55 | 2.7 | 210 | Ferrite |
| 9230-44-RC | 10 | ± 10 | 55 | 7.9 | 50 | 3.7 | 180 | Ferrite |
| 9230-46-RC | 12 | ± 10 | 45 | 2.5 | 40 | 2.7 | 210 | Ferrite |
| 9230-48-RC | 15 | ± 10 | 45 | 2.5 | 35 | 2.8 | 205 | Ferrite |
| 9230-50-RC | 18 | ± 10 | 50 | 2.5 | 32 | 3.1 | 195 | Ferrite |
| 9230-52-RC | 22 | ± 10 | 50 | 2.5 | 25 | 3.3 | 190 | Ferrite |
| 9230-54-RC | 27 | ± 10 | 50 | 2.5 | 22 | 3.5 | 185 | Ferrite |
| 9230-56-RC | 33 | ± 10 | 45 | 2.5 | 24 | 3.4 | 187 | Ferrite |
| 9230-58-RC | 39 | ± 10 | 45 | 2.5 | 22 | 3.6 | 180 | Ferrite |
| 9230-60-RC | 47 | ± 10 | 45 | 2.5 | 20 | 4.5 | 165 | Ferrite |
| 9230-62-RC | 56 | ± 10 | 45 | 2.5 | 18 | 5.7 | 145 | Ferrite |
| 9230-64-RC | 68 | ± 10 | 50 | 2.5 | 15 | 6.7 | 135 | Ferrite |
| 9230-66-RC | 82 | ± 10 | 50 | 2.5 | 14 | 7.3 | 130 | Ferrite |
| 9230-68-RC | 100 | ± 10 | 50 | 2.5 | 13 | 8.0 | 125 | Ferrite |
| 9230-70-RC | 120 | ± 10 | 30 | 0.79 | 12 | 13 | 97 | Ferrite |
| 9230-72-RC | 150 | ± 10 | 30 | 0.79 | 11 | 15 | 85 | Ferrite |
| 9230-74-RC | 180 | ± 10 | 30 | 0.79 | 10 | 17 | 79 | Ferrite |
| 9230-76-RC | 220 | ± 10 | 30 | 0.79 | 9 | 21 | 73 | Ferrite |
| 9230-78-RC | 270 | ± 10 | 30 | 0.79 | 8 | 25 | 65 | Ferrite |
| 9230-80-RC | 330 | ± 10 | 30 | 0.79 | 7 | 28 | 62 | Ferrite |
| 9230-82-RC | 390 | ± 10 | 30 | 0.79 | 6.5 | 35 | 55 | Ferrite |
| 9230-84-RC | 470 | ± 10 | 30 | 0.79 | 6 | 42 | 50 | Ferrite |
| 9230-86-RC | 560 | ± 10 | 30 | 0.79 | 5 | 46 | 48 | Ferrite |
| 9230-88-RC | 680 | ± 10 | 30 | 0.79 | 4.2 | 60 | 42 | Ferrite |
| 9230-90-RC | 820 | ± 10 | 30 | 0.79 | 3.8 | 65 | 40 | Ferrite |
| 9230-92-RC | 1000 | ± 10 | 30 | 0.79 | 3.4 | 72 | 38 | Ferrite |

General Specifications

Temperature Rise 35 °C at I_{dc}
 Operating Temperature
 Ferrite -55 °C to +125 °C
 Phenolic -55 °C to +105 °C
 Storage Temperature
 Ferrite -55 °C to +125 °C
 Phenolic -55 °C to +105 °C
 Dielectric Strength 1000 Vrms

Materials

Core Phenolic or Ferrite
 Wire Enameled copper
 Terminal Coating Sn
 Packaging
 Standard 1000 pcs. per bag
 Optional 5000 pcs. per 14-inch reel

How to Order

9230 - 02 - - - RC

Model _____
 Value Code _____
 Two-digit code from table
 (Example: -02 = 0.18 μ H)
 Packaging Code _____
 Blank = 1000 pcs./bag
 TR = 5000 pcs./14-inch reel
 Compliance Code _____
 RC = RoHS compliant*

Examples:
 • 9230-00-RC = 0.15 μ H packaged
 1000 pcs./bag.
 • 9230-16-TR-RC = 0.68 μ H packaged
 5000 pcs./14-inch reel.

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

9230 Series Molded Axial Inductor

BOURNS®

Product Dimensions

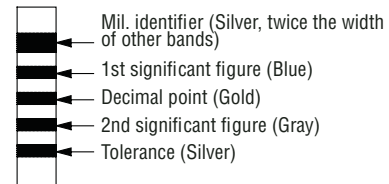


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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 %

