

Features

- Formerly J. W. Miller® model
- Shielded
- High Q value
- Inductance range: 0.1 μ H to 100,000 μ H
- RoHS compliant*



High inductance models 9250A-106-RC through 9250A-107-RC are currently available but not recommended for new designs.

Applications

- Filters
- Output chokes

9250A Series Molded Axial Inductor

Electrical Specifications

| Bourns Part No. | Inductance | | Q Min. | Test Frequency (MHz) | SRF (MHz) Min. | DCR (Ω) Max. | Idc (mA) | Isat (mA) |
|-----------------|------------|----------|--------|----------------------|----------------|-----------------------|----------|-----------|
| | (μ H) | Tol. (%) | | | | | | |
| 9250A-101-RC | 0.10 | ± 10 | 50 | 25 | 250 | 0.025 | 1790 | 1790 |
| 9250A-121-RC | 0.12 | ± 10 | 51 | 25 | 250 | 0.034 | 1530 | 1530 |
| 9250A-151-RC | 0.15 | ± 10 | 51 | 25 | 250 | 0.037 | 1470 | 1470 |
| 9250A-181-RC | 0.18 | ± 10 | 50 | 25 | 250 | 0.047 | 1300 | 1300 |
| 9250A-221-RC | 0.22 | ± 10 | 49 | 25 | 250 | 0.067 | 1100 | 1100 |
| 9250A-271-RC | 0.27 | ± 10 | 47 | 25 | 250 | 0.11 | 855 | 855 |
| 9250A-331-RC | 0.33 | ± 10 | 46 | 25 | 250 | 0.13 | 780 | 780 |
| 9250A-391-RC | 0.39 | ± 10 | 44 | 25 | 250 | 0.18 | 670 | 670 |
| 9250A-471-RC | 0.47 | ± 10 | 44 | 25 | 235 | 0.25 | 565 | 565 |
| 9250A-561-RC | 0.56 | ± 10 | 43 | 25 | 210 | 0.33 | 490 | 490 |
| 9250A-681-RC | 0.68 | ± 10 | 42 | 25 | 190 | 0.45 | 420 | 420 |
| 9250A-821-RC | 0.82 | ± 10 | 50 | 25 | 180 | 0.59 | 370 | 370 |
| 9250A-102-RC | 1.0 | ± 10 | 40 | 25 | 140 | 0.07 | 1070 | 1070 |
| 9250A-122-RC | 1.2 | ± 10 | 44 | 7.9 | 130 | 0.10 | 895 | 895 |
| 9250A-152-RC | 1.5 | ± 10 | 44 | 7.9 | 115 | 0.12 | 815 | 815 |
| 9250A-182-RC | 1.8 | ± 10 | 44 | 7.9 | 105 | 0.14 | 775 | 775 |
| 9250A-222-RC | 2.2 | ± 10 | 44 | 7.9 | 100 | 0.19 | 650 | 650 |
| 9250A-272-RC | 2.7 | ± 10 | 44 | 7.9 | 92 | 0.28 | 535 | 535 |
| 9250A-332-RC | 3.3 | ± 10 | 44 | 7.9 | 85 | 0.35 | 480 | 480 |
| 9250A-392-RC | 3.9 | ± 10 | 44 | 7.9 | 75 | 0.40 | 450 | 450 |
| 9250A-472-RC | 4.7 | ± 10 | 44 | 7.9 | 70 | 0.55 | 380 | 380 |
| 9250A-562-RC | 5.6 | ± 10 | 44 | 7.9 | 65 | 0.72 | 335 | 335 |
| 9250A-682-RC | 6.8 | ± 10 | 50 | 7.9 | 55 | 1.02 | 280 | 280 |
| 9250A-822-RC | 8.2 | ± 10 | 50 | 7.9 | 50 | 1.32 | 250 | 250 |
| 9250A-103-RC | 10 | ± 10 | 50 | 7.9 | 46 | 1.62 | 220 | 220 |
| 9250A-123-RC | 12 | ± 10 | 55 | 2.5 | 44 | 2.00 | 200 | 200 |
| 9250A-153-RC | 15 | ± 10 | 45 | 2.5 | 49 | 0.80 | 315 | 250 |
| 9250A-183-RC | 18 | ± 10 | 45 | 2.5 | 45 | 0.89 | 300 | 235 |
| 9250A-223-RC | 22 | ± 10 | 45 | 2.5 | 41 | 0.96 | 290 | 220 |
| 9250A-273-RC | 27 | ± 10 | 45 | 2.5 | 38 | 1.19 | 260 | 200 |
| 9250A-333-RC | 33 | ± 10 | 45 | 2.5 | 34 | 1.37 | 240 | 190 |
| 9250A-393-RC | 39 | ± 10 | 50 | 2.5 | 29 | 1.93 | 205 | 180 |
| 9250A-473-RC | 47 | ± 10 | 50 | 2.5 | 27 | 2.11 | 195 | 175 |
| 9250A-563-RC | 56 | ± 10 | 50 | 2.5 | 25 | 2.23 | 190 | 160 |
| 9250A-683-RC | 68 | ± 10 | 50 | 2.5 | 21 | 2.70 | 170 | 150 |
| 9250A-823-RC | 82 | ± 10 | 50 | 2.5 | 10.5 | 2.44 | 180 | 140 |
| 9250A-104-RC | 100 | ± 10 | 50 | 2.5 | 10 | 3.12 | 160 | 120 |
| 9250A-124-RC | 120 | ± 10 | 55 | 0.79 | 9.7 | 3.6 | 150 | 95 |
| 9250A-154-RC | 150 | ± 10 | 55 | 0.79 | 8.5 | 4.1 | 140 | 90 |
| 9250A-184-RC | 180 | ± 10 | 55 | 0.79 | 8.0 | 4.4 | 135 | 85 |
| 9250A-224-RC | 220 | ± 10 | 55 | 0.79 | 7.5 | 5.0 | 125 | 80 |
| 9250A-274-RC | 270 | ± 10 | 55 | 0.79 | 7.0 | 5.8 | 115 | 70 |
| 9250A-334-RC | 330 | ± 10 | 55 | 0.79 | 6.5 | 6.4 | 110 | 65 |
| 9250A-394-RC | 390 | ± 10 | 60 | 0.79 | 6.2 | 7.4 | 105 | 60 |
| 9250A-474-RC | 470 | ± 10 | 60 | 0.79 | 5.7 | 9.5 | 92 | 58 |
| 9250A-564-RC | 560 | ± 10 | 60 | 0.79 | 4.7 | 10.5 | 90 | 55 |
| 9250A-684-RC | 680 | ± 10 | 60 | 0.79 | 4.5 | 11.8 | 80 | 50 |
| 9250A-824-RC | 820 | ± 10 | 60 | 0.79 | 4.2 | 13.0 | 80 | 45 |

General Specifications

Temperature Rise 35 °C at Idc Rated Current
 Inductance drop 5 % typical at Isat
 Operating Temperature -55 °C to +125 °C
 Storage Temperature -55 °C to +125 °C
 Dielectric Strength 1000 Vrms

Materials

Core Ferrite
 Wire Enameled copper
 Terminal Coating Sn
 Packaging
 Standard 1000 pcs. per bag
 Optional 2500 pcs. per 12-inch reel

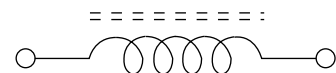
How to Order

9250A - 102 - - RC

Model _____
 Value Code _____
 (See table)
 Packaging Code _____
 Blank = 1000 pcs./bag
 TR = 2500 pcs./12-inch reel
 Compliance Code _____
 RC = RoHS compliant*

Examples:
 • 9250A-151-RC = 0.15 μ H packaged 1000 pcs./bag.
 • 9250A-681-TR-RC = 0.68 μ H packaged 2500 pcs./12-inch reel.

Electrical Schematic



Electrical specifications continued on page 2.

*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.

9250A Series Molded Axial Inductor

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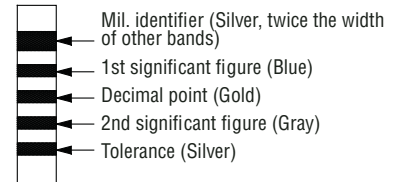
Electrical Specifications (Continued)

| Bourns Part No. | Inductance | | Q Min. | Test Frequency (MHz) | SRF (MHz) Min. | DCR (Ω) Max. | Idc (mA) | Isat (mA) |
|-----------------|------------|----------|--------|----------------------|----------------|--------------|----------|-----------|
| | (μH) | Tol. (%) | | | | | | |
| 9250A-105-RC | 1000 | ±10 | 60 | 0.79 | 3.8 | 17.5 | 70 | 40 |
| 9250A-125-RC | 1200 | ±10 | 45 | 0.25 | 1.5 | 22.1 | 60 | 35 |
| 9250A-155-RC | 1500 | ±10 | 45 | 0.25 | 1.2 | 26.5 | 55 | 33 |
| 9250A-185-RC | 1800 | ±10 | 45 | 0.25 | 1.0 | 29.9 | 50 | 30 |
| 9250A-225-RC | 2200 | ±10 | 45 | 0.25 | 0.97 | 33.8 | 50 | 27 |
| 9250A-275-RC | 2700 | ±10 | 45 | 0.25 | 0.92 | 47.3 | 40 | 25 |
| 9250A-335-RC | 3300 | ±10 | 45 | 0.25 | 0.84 | 53.0 | 40 | 22 |
| 9250A-395-RC | 3900 | ±10 | 45 | 0.25 | 0.8 | 73.8 | 35 | 20 |
| 9250A-475-RC | 4700 | ±10 | 45 | 0.25 | 0.74 | 81.6 | 31 | 19 |
| 9250A-565-RC | 5600 | ±10 | 44 | 0.25 | 0.73 | 98.9 | 28 | 17 |
| 9250A-685-RC | 6800 | ±10 | 40 | 0.25 | 0.66 | 111 | 27 | 16 |
| 9250A-825-RC | 8200 | ±10 | 40 | 0.25 | 0.54 | 119 | 26 | 15 |
| 9250A-106-RC | 10,000 | ±10 | 40 | 0.25 | 0.47 | 137 | 24 | 14 |
| 9250A-126-RC | 12,000 | ±10 | 30 | 0.079 | 0.33 | 143 | 23 | 13 |
| 9250A-156-RC | 15,000 | ±10 | 30 | 0.079 | 0.29 | 157 | 22 | 12 |
| 9250A-186-RC | 18,000 | ±10 | 30 | 0.079 | 0.28 | 175 | 21 | 10 |
| 9250A-226-RC | 22,000 | ±10 | 27 | 0.079 | 0.25 | 274 | 17 | 9 |
| 9250A-276-RC | 27,000 | ±10 | 27 | 0.079 | 0.21 | 308 | 16 | 8 |
| 9250A-336-RC | 33,000 | ±10 | 27 | 0.079 | 0.19 | 343 | 15 | 7.5 |
| 9250A-396-RC | 39,000 | ±10 | 27 | 0.079 | 0.17 | 376 | 15 | 6 |
| 9250A-476-RC | 47,000 | ±10 | 23 | 0.079 | 0.16 | 473 | 13 | 5.5 |
| 9250A-566-RC | 56,000 | ±10 | 23 | 0.079 | 0.14 | 512 | 13 | 5 |
| 9250A-686-RC | 68,000 | ±10 | 23 | 0.079 | 0.13 | 580 | 12 | 4 |
| 9250A-826-RC | 82,000 | ±10 | 21 | 0.079 | 0.12 | 618 | 11 | 3.5 |
| 9250A-107-RC | 100,000 | ±10 | 18 | 0.079 | 0.11 | 678 | 11 | 3 |

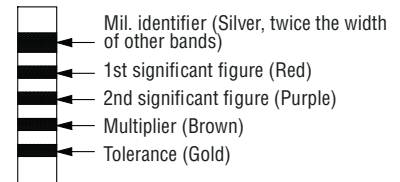
Typ. Part Marking - MIL-STD Color Code

| 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 % |

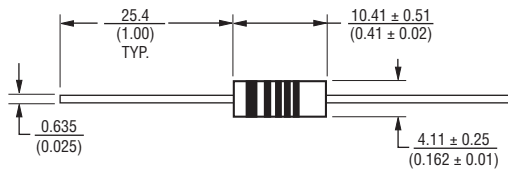
Example for L value less than 10 μH
6.8 μH, ±10 %



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



Product Dimensions

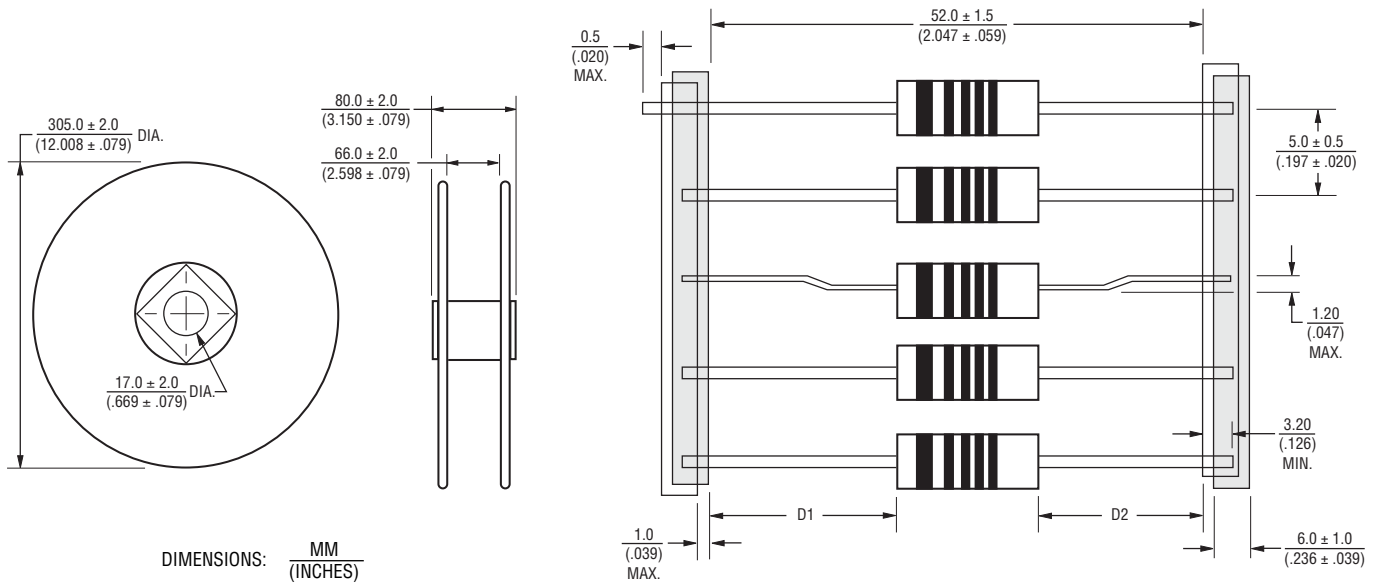


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

9250A Series Molded Axial Inductor

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Tape and Reel Packaging Specifications



NOTE: THE DIFFERENCE BETWEEN D1 AND D2 SHOULD NOT EXCEED 1.0 (.039).

REV. 11/12

Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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