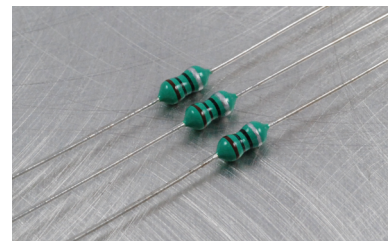
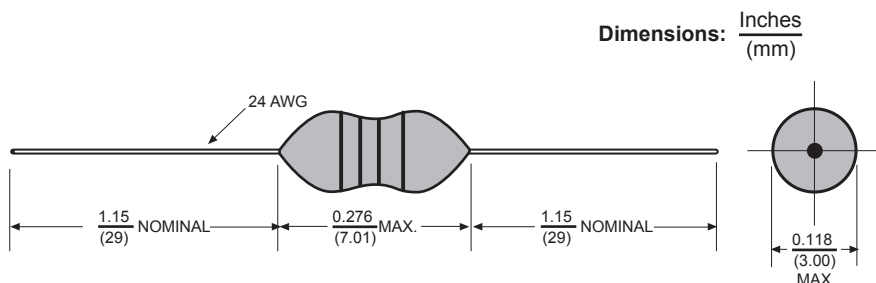


# AC20 Axial Coated Inductors



## Features

- Incorporation of a special lead wire structure entirely eliminates defects inherent in existing axial lead type products and prevents lead breakage.
- The special magnetic core structure permits the product to have reduced size, high "Q" and self resonant frequencies.
- Treated with epoxy resin coating for humidity resistance to ensure longer life.
- Heat resistant adhesives and special structural design for effective open circuit measurement.

## Electrical

**Inductance Range:** .027 $\mu$ h to 1000 $\mu$ h.

**Tolerance:** 10% over entire range.

Tighter tolerances available

**Temp. Rise:** 20°C.

**Ambient Temp.:** 80°C.

**Rated Temp Range:** -20 to 100°C.

**Dielectric Withstanding Voltage:** 250

Volts R.M.S.

**Rated Current:** Based on temp rise.

## Mechanical

**Terminal Tensile Strength:** 1.0 kg min.

**Terminal Bending Strength:** .3 kg min.

## Physical

**Marking (on reel):** Manufacturers name, Part number, Quantity,

**Marking:** 4 band color code.

**Packaging:** 5000 pieces per Ammo Pack.

For Tape and Reel packaging please add "-TR" to the part number.

| Allied Part Number | Inductance ( $\mu$ h) | Tolerance (%) | Q Min. | Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. ( $\Omega$ ) | Rated Current (mA) |
|--------------------|-----------------------|---------------|--------|------------------|----------------|-----------------------|--------------------|
| AC20-R027M-RC      | 0.027                 | 20            | 40     | 50.0             | 500            | 0.02                  | 520                |
| AC20-R033M-RC      | 0.033                 | 20            | 40     | 50.0             | 490            | 0.02                  | 500                |
| AC20-R039M-RC      | 0.039                 | 20            | 40     | 50.0             | 480            | 0.02                  | 500                |
| AC20-R047M-RC      | 0.047                 | 20            | 40     | 50.0             | 480            | 0.03                  | 500                |
| AC20-R056M-RC      | 0.056                 | 20            | 40     | 50.0             | 470            | 0.045                 | 460                |
| AC20-R068M-RC      | 0.068                 | 20            | 40     | 50.0             | 470            | 0.05                  | 460                |
| AC20-R082M-RC      | 0.082                 | 20            | 40     | 50.0             | 470            | 0.05                  | 460                |
| AC20-R10K-RC       | .10                   | 10            | 40     | 25.2             | 470            | 0.08                  | 700                |
| AC20-R12K-RC       | .12                   | 10            | 40     | 25.2             | 450            | 0.08                  | 700                |
| AC20-R15K-RC       | .15                   | 10            | 40     | 25.2             | 430            | 0.09                  | 700                |
| AC20-R18K-RC       | .18                   | 10            | 40     | 25.2             | 410            | 0.10                  | 700                |
| AC20-R22K-RC       | .22                   | 10            | 40     | 25.2             | 380            | 0.12                  | 700                |
| AC20-R27K-RC       | .27                   | 10            | 40     | 25.2             | 360            | 0.15                  | 680                |
| AC20-R33K-RC       | .33                   | 10            | 40     | 25.2             | 350            | 0.16                  | 680                |
| AC20-R39K-RC       | .39                   | 10            | 40     | 25.2             | 320            | 0.18                  | 680                |
| AC20-R47K-RC       | .47                   | 10            | 40     | 25.2             | 300            | 0.26                  | 650                |
| AC20-R56K-RC       | .56                   | 10            | 40     | 25.2             | 280            | 0.38                  | 500                |
| AC20-R68K-RC       | .68                   | 10            | 40     | 25.2             | 250            | 0.42                  | 500                |
| AC20-R82K-RC       | .82                   | 10            | 40     | 25.2             | 200            | 0.55                  | 450                |
| AC20-1R0K-RC       | 1.0                   | 10            | 40     | 25.2             | 180            | 0.12                  | 700                |
| AC20-1R2K-RC       | 1.2                   | 10            | 40     | 7.96             | 165            | 0.18                  | 700                |
| AC20-1R5K-RC       | 1.5                   | 10            | 45     | 7.96             | 150            | 0.20                  | 700                |
| AC20-1R8K-RC       | 1.8                   | 10            | 50     | 7.96             | 125            | 0.23                  | 655                |
| AC20-2R2K-RC       | 2.2                   | 10            | 50     | 7.96             | 85             | 0.25                  | 630                |
| AC20-2R7K-RC       | 2.7                   | 10            | 50     | 7.96             | 80             | 0.28                  | 595                |
| AC20-3R3K-RC       | 3.3                   | 10            | 50     | 7.96             | 75             | 0.30                  | 575                |
| AC20-3R9K-RC       | 3.9                   | 10            | 45     | 7.96             | 65             | 0.32                  | 555                |
| AC20-4R7K-RC       | 4.7                   | 10            | 45     | 7.96             | 45             | 0.35                  | 530                |
| AC20-5R6K-RC       | 5.6                   | 10            | 45     | 7.96             | 36             | 0.40                  | 500                |
| AC20-6R8K-RC       | 6.8                   | 10            | 40     | 7.96             | 30             | 0.45                  | 470                |
| AC20-8R2K-RC       | 8.2                   | 10            | 40     | 7.96             | 28             | 0.55                  | 425                |
| AC20-100K-RC       | 10                    | 10            | 40     | 7.96             | 22             | 0.72                  | 370                |
| AC20-120K-RC       | 12                    | 10            | 45     | 2.52             | 20             | 0.80                  | 350                |
| AC20-150K-RC       | 15                    | 10            | 45     | 2.52             | 16             | 0.88                  | 335                |
| AC20-180K-RC       | 18                    | 10            | 50     | 2.52             | 15             | 1.00                  | 315                |
| AC20-220K-RC       | 22                    | 10            | 50     | 2.52             | 13             | 1.20                  | 285                |
| AC20-270K-RC       | 27                    | 10            | 50     | 2.52             | 11             | 1.35                  | 270                |
| AC20-330K-RC       | 33                    | 10            | 50     | 2.52             | 10             | 1.50                  | 255                |
| AC20-390K-RC       | 39                    | 10            | 50     | 2.52             | 9.5            | 1.70                  | 240                |
| AC20-470K-RC       | 47                    | 10            | 60     | 2.52             | 8.5            | 2.30                  | 205                |
| AC20-560K-RC       | 56                    | 10            | 60     | 2.52             | 7.5            | 2.60                  | 195                |
| AC20-680K-RC       | 68                    | 10            | 60     | 2.52             | 6.5            | 3.20                  | 185                |
| AC20-820K-RC       | 82                    | 10            | 60     | 2.52             | 6.0            | 3.50                  | 175                |
| AC20-101K-RC       | 100                   | 10            | 60     | 2.52             | 5.5            | 3.80                  | 165                |
| AC20-121K-RC       | 120                   | 10            | 60     | .796             | 5.4            | 3.80                  | 160                |
| AC20-151K-RC       | 150                   | 10            | 60     | .796             | 4.75           | 4.40                  | 150                |
| AC20-181K-RC       | 180                   | 10            | 60     | .796             | 4.35           | 5.00                  | 140                |
| AC20-221K-RC       | 220                   | 10            | 60     | .796             | 4.0            | 5.70                  | 130                |
| AC20-271K-RC       | 270                   | 10            | 60     | .796             | 3.7            | 6.50                  | 120                |
| AC20-331K-RC       | 330                   | 10            | 60     | .796             | 3.4            | 9.50                  | 100                |
| AC20-391K-RC       | 390                   | 10            | 60     | .796             | 2.8            | 10.5                  | 95                 |
| AC20-471K-RC       | 470                   | 10            | 60     | .796             | 2.4            | 12.5                  | 90                 |
| AC20-561K-RC       | 560                   | 10            | 60     | .796             | 2.2            | 14.5                  | 85                 |
| AC20-681K-RC       | 680                   | 10            | 60     | .796             | 2.0            | 18.0                  | 75                 |
| AC20-821K-RC       | 820                   | 10            | 60     | .796             | 1.6            | 23.7                  | 65                 |
| AC20-102K-RC       | 1000                  | 10            | 60     | .796             | 1.15           | 30                    | 60                 |

All specifications subject to change without notice.