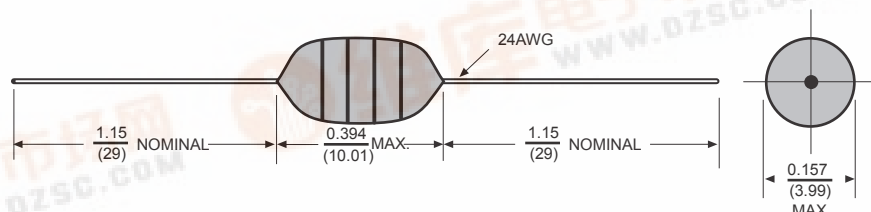




Dimensions:  $\frac{\text{Inches}}{(\text{mm})}$



| Allied Part Number | Inductance (μh) | Tolerance (%) | Q Min. | Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current (mA) |
|--------------------|-----------------|---------------|--------|------------------|----------------|--------------|--------------------|
| AC30-R10K-RC       | .10             | 10            | 50     | 25.2             | 470            | 0.04         | 900                |
| AC30-R12K-RC       | .12             | 10            | 50     | 25.2             | 450            | 0.06         | 900                |
| AC30-R15K-RC       | .15             | 10            | 50     | 25.2             | 430            | 0.07         | 890                |
| AC30-R18K-RC       | .18             | 10            | 50     | 25.2             | 410            | 0.07         | 890                |
| AC30-R22K-RC       | .22             | 10            | 50     | 25.2             | 380            | 0.08         | 880                |
| AC30-R27K-RC       | .27             | 10            | 50     | 25.2             | 340            | 0.09         | 800                |
| AC30-R33K-RC       | .33             | 10            | 50     | 25.2             | 300            | 0.10         | 750                |
| AC30-R39K-RC       | .39             | 10            | 50     | 25.2             | 280            | 0.12         | 680                |
| AC30-R47K-RC       | .47             | 10            | 50     | 25.2             | 250            | 0.16         | 650                |
| AC30-R56K-RC       | .56             | 10            | 50     | 25.2             | 230            | 0.18         | 600                |
| AC30-R68K-RC       | .68             | 10            | 50     | 25.2             | 210            | 0.22         | 550                |
| AC30-R82K-RC       | .82             | 10            | 50     | 25.2             | 172            | 0.24         | 980                |
| AC30-1R0K-RC       | 1.0             | 10            | 50     | 25.2             | 157            | 0.09         | 920                |
| AC30-1R2K-RC       | 1.2             | 10            | 50     | 7.96             | 144            | 0.10         | 880                |
| AC30-1R5K-RC       | 1.5             | 10            | 50     | 7.96             | 131            | 0.23         | 830                |
| AC30-1R8K-RC       | 1.8             | 10            | 55     | 7.96             | 121            | 0.25         | 790                |
| AC30-2R2K-RC       | 2.2             | 10            | 55     | 7.96             | 110            | 0.28         | 750                |
| AC30-2R7K-RC       | 2.7             | 10            | 60     | 7.96             | 100            | 0.30         | 720                |
| AC30-3R3K-RC       | 3.3             | 10            | 65     | 7.96             | 94             | 0.34         | 670                |
| AC30-3R9K-RC       | 3.9             | 10            | 65     | 7.96             | 86             | 0.37         | 640                |
| AC30-4R7K-RC       | 4.7             | 10            | 70     | 7.96             | 80             | 0.39         | 620                |
| AC30-5R6K-RC       | 5.6             | 10            | 70     | 7.96             | 74             | 0.43         | 590                |
| AC30-6R8K-RC       | 6.8             | 10            | 75     | 7.96             | 58             | 0.48         | 550                |
| AC30-8R2K-RC       | 8.2             | 10            | 80     | 7.96             | 53             | 0.52         | 530                |
| AC30-100K-RC       | 10              | 10            | 85     | 7.96             | 45             | 0.58         | 500                |
| AC30-120K-RC       | 12              | 10            | 75     | 2.52             | 30             | 0.63         | 480                |
| AC30-150K-RC       | 15              | 10            | 70     | 2.52             | 20             | 0.72         | 460                |
| AC30-180K-RC       | 18              | 10            | 65     | 2.52             | 14             | 0.77         | 430                |
| AC30-220K-RC       | 22              | 10            | 40     | 2.52             | 9.9            | 0.84         | 410                |
| AC30-270K-RC       | 27              | 10            | 55     | 2.52             | 7.6            | 0.94         | 390                |
| AC30-330K-RC       | 33              | 10            | 55     | 2.52             | 6.3            | 1.03         | 370                |
| AC30-390K-RC       | 39              | 10            | 50     | 2.52             | 6.3            | 1.12         | 350                |
| AC30-470K-RC       | 47              | 10            | 45     | 2.52             | 6.3            | 1.22         | 340                |
| AC30-560K-RC       | 56              | 10            | 40     | 2.52             | 6.2            | 1.34         | 320                |
| AC30-680K-RC       | 68              | 10            | 40     | 2.52             | 5.7            | 1.47         | 305                |
| AC30-820K-RC       | 82              | 10            | 35     | 2.52             | 5.3            | 1.62         | 290                |
| AC30-101K-RC       | 100             | 10            | 30     | 2.52             | 4.8            | 1.80         | 275                |
| AC30-121K-RC       | 120             | 10            | 70     | .796             | 3.8            | 3.70         | 185                |
| AC30-151K-RC       | 150             | 10            | 70     | .796             | 3.5            | 4.20         | 175                |
| AC30-181K-RC       | 180             | 10            | 70     | .796             | 3.3            | 4.60         | 165                |
| AC30-221K-RC       | 220             | 10            | 70     | .796             | 3.0            | 5.10         | 155                |
| AC30-271K-RC       | 270             | 10            | 65     | .796             | 2.8            | 5.80         | 145                |
| AC30-331K-RC       | 330             | 10            | 65     | .796             | 2.6            | 6.40         | 137                |
| AC30-391K-RC       | 390             | 10            | 65     | .796             | 2.4            | 7.00         | 133                |
| AC30-471K-RC       | 470             | 10            | 60     | .796             | 2.25           | 7.70         | 126                |
| AC30-561K-RC       | 560             | 10            | 60     | .796             | 2.1            | 8.5          | 120                |
| AC30-681K-RC       | 680             | 10            | 55     | .796             | 1.95           | 9.4          | 113                |
| AC30-821K-RC       | 820             | 10            | 55     | .796             | 1.85           | 12.0         | 100                |
| AC30-102K-RC       | 1000            | 10            | 50     | .252             | 1.4            | 17.4         | 100                |

### 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:** .10μh to 1000μh.

**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 reel.

All specifications subject to change without notice.