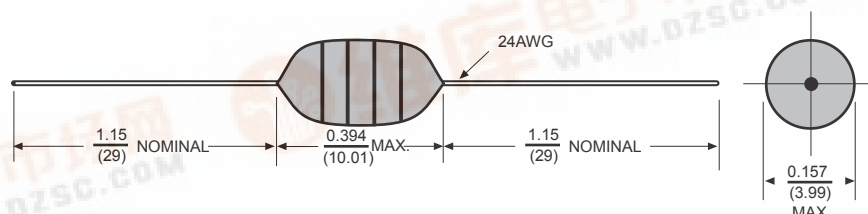




Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



| Allied Part Number | Inductance ( $\mu\text{H}$ ) | Tolerance (%) | Q Min. | Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. ( $\Omega$ ) | 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:** .10 $\mu\text{H}$  to 1000 $\mu\text{H}$ .  
**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 reel.

All specifications subject to change without notice.