# TYPE 23C & 24C

## EPOXY CONFORMAL COATED INDUCTORS IN AXIAL LEAD



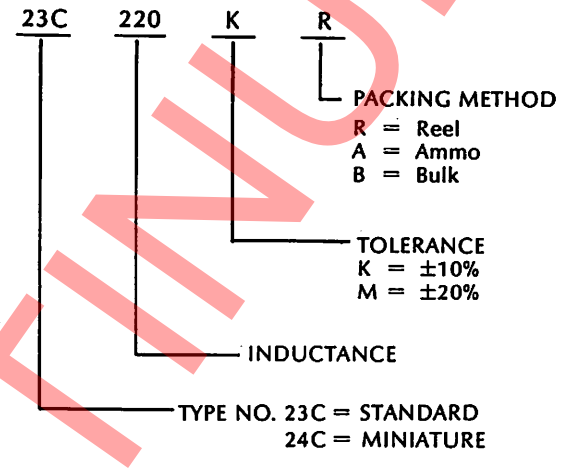
### FEATURES

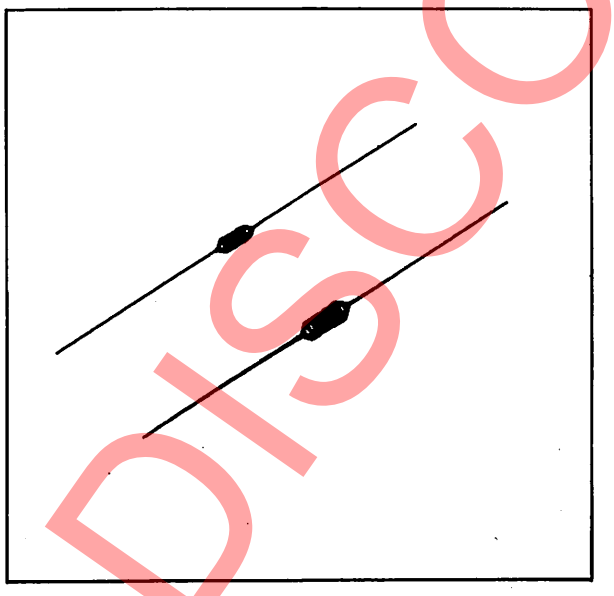
* Designed for low cost, yet quality is equivalent to molded inductors
* Uniform, flame retardant epoxy coating
* Color code identification
* Available in bulk or tape and reel packaging

### SPECIFICATIONS

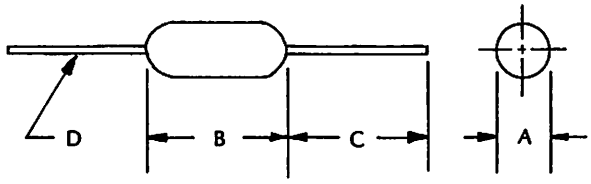
* **Operating Temperature:** −20°C to +105°C
* **Inductance Tolerance:** ±10%, ±20%, special tolerance available on request
* **Dielectric Strength:** 1000 VAC per MIL-STD-202, method 301
* **Insulation Resistance:** 1000 Megohms per MIL-STD-202, method 302
* **Lead:** Tinned copper
* **Lead Pull:** 5 lbs.
* **Vibration:** Per MIL-STD-202, method 204
* **Shock:** Per MIL-STD-202, method 205
* **Solderability:** Per MIL-STD-202, method 208

### PART NUMBERING SYSTEM



### DIMENSIONS




| TYPE | A | B | C | D |
|---|---|---|---|---|
| | MAX. | MAX. | MIN. | ±0.002 |
| 23C | 0.18 | 0.44 | 1.00 | 0.02 |
| 24C | 0.12 | 0.30 | 1.00 | 0.02 |

# TYPE 23C & 24C

## TYPE 23C

| PART NUMBER | L | Q | TEST FREQ. | SRF | DCR | RATED CURRENT |
|---|---|---|---|---|---|---|
| | µH | | MHz | MHz | OHM | mA |
| | ±10% | MIN. | | MIN. | MAX. | MAX. |
| 23C1R0K | 1.0 | 45 | 25.0 | 157 | 0.24 | 920 |
| 23C1R2K | 1.2 | 50 | 7.9 | 154 | 0.27 | 880 |
| 23C1R5K | 1.5 | 50 | 7.9 | 131 | 0.30 | 830 |
| 23C1R8K | 1.8 | 55 | 7.9 | 121 | 0.32 | 790 |
| 23C2R2K | 2.2 | 55 | 7.9 | 110 | 0.35 | 750 |
| 23C2R7K | 2.7 | 60 | 7.9 | 100 | 0.41 | 720 |
| 23C3R3K | 3.3 | 65 | 7.9 | 80 | 0.44 | 670 |
| 23C3R9K | 3.9 | 65 | 7.9 | 73 | 0.50 | 640 |
| 23C4R7K | 4.7 | 70 | 7.9 | 70 | 0.54 | 620 |
| 23C5R6K | 5.6 | 70 | 7.9 | 62 | 0.59 | 590 |
| 23C6R8K | 6.8 | 75 | 7.9 | 58 | 0.64 | 550 |
| 23C8R2K | 8.2 | 80 | 7.9 | 50 | 0.71 | 530 |
| 23C100K | 10 | 85 | 7.9 | 30 | 0.81 | 500 |
| 23C120K | 12 | 75 | 2.5 | 26 | 1.37 | 480 |
| 23C150K | 15 | 70 | 2.5 | 20 | 1.62 | 460 |
| 23C180K | 18 | 65 | 2.5 | 14 | 1.71 | 430 |
| 23C220K | 22 | 60 | 2.5 | 10 | 1.88 | 410 |
| 23C270K | 27 | 55 | 2.5 | 7 | 2.03 | 390 |
| 23C330K | 33 | 55 | 2.5 | 5 | 2.39 | 370 |
| 23C390K | 39 | 50 | 2.5 | 4.3 | 2.53 | 350 |
| 23C470K | 47 | 45 | 2.5 | 4.0 | 2.78 | 340 |
| 23C560K | 56 | 40 | 2.5 | 3.8 | 3.06 | 320 |
| 23C680K | 68 | 40 | 2.5 | 3.5 | 3.42 | 305 |
| 23C820K | 82 | 35 | 2.5 | 3.3 | 3.59 | 290 |
| 23C101K | 100 | 30 | 2.5 | 3.0 | 4.35 | 275 |
| 23C121K | 120 | 70 | 0.79 | 2.5 | 4.14 | 185 |
| 23C151K | 150 | 70 | 0.79 | 2.5 | 4.85 | 175 |
| 23C181K | 180 | 70 | 0.79 | 2.2 | 5.00 | 165 |
| 23C221K | 220 | 70 | 0.79 | 2.0 | 5.87 | 155 |
| 23C271K | 270 | 65 | 0.79 | 1.5 | 8.06 | 145 |
| 23C331K | 330 | 65 | 0.79 | 1.4 | 8.50 | 137 |
| 23C391K | 390 | 65 | 0.79 | 1.4 | 9.31 | 133 |
| 23C471K | 470 | 60 | 0.79 | 1.2 | 13.9 | 126 |
| 23C561K | 560 | 60 | 0.79 | 1.1 | 15.1 | 120 |
| 23C681K | 680 | 55 | 0.79 | 1.1 | 15.7 | 113 |
| 23C821K | 820 | 55 | 0.79 | 1.0 | 18.5 | 105 |
| 23C102K | 1000 | 50 | 0.79 | 0.9 | 22.2 | 100 |

## TYPE 24C

| PART NUMBER | L | Q | TEST FREQ. | SRF | DCR | RATED CURRENT |
|---|---|---|---|---|---|---|
| | µH | | MHz | MHz | OHM | mA |
| | ±10% | MIN. | | MIN. | MAX. | MAX. |
| 24CR22K | 0.22 | 45 | 25.0 | 150 | 0.20 | 400 |
| 24CR27K | 0.27 | 45 | 25.0 | 150 | 0.22 | 380 |
| 24CR33K | 0.33 | 45 | 25.0 | 150 | 0.24 | 370 |
| 24CR39K | 0.39 | 50 | 25.0 | 150 | 0.26 | 350 |
| 24CR47K | 0.47 | 45 | 25.0 | 150 | 0.28 | 350 |
| 24CR56K | 0.56 | 50 | 25.0 | 150 | 0.31 | 320 |
| 24CR68K | 0.68 | 50 | 25.0 | 150 | 0.34 | 310 |
| 24CR82K | 0.82 | 55 | 25.0 | 150 | 0.37 | 290 |
| 24C1R0K | 1.00 | 60 | 25.0 | 150 | 0.40 | 270 |
| 24C1R2K | 1.20 | 45 | 7.9 | 140 | 0.45 | 260 |
| 24C1R5K | 1.50 | 50 | 7.9 | 131 | 0.50 | 250 |
| 24C1R8K | 1.80 | 45 | 7.9 | 121 | 0.55 | 240 |
| 24C2R2K | 2.20 | 40 | 7.9 | 100 | 0.60 | 230 |
| 24C2R7K | 2.70 | 55 | 7.9 | 95 | 0.65 | 220 |
| 24C3R3K | 3.30 | 40 | 7.9 | 90 | 0.75 | 210 |
| 24C3R9K | 3.90 | 50 | 7.9 | 60 | 0.85 | 200 |
| 24C6R7K | 4.70 | 55 | 7.9 | 55 | 0.90 | 190 |
| 24C5R6K | 5.60 | 50 | 7.9 | 45 | 0.95 | 180 |
| 24C6R8K | 6.80 | 45 | 7.9 | 30 | 1.10 | 175 |
| 24C8R2K | 8.20 | 45 | 7.9 | 25 | 1.20 | 165 |
| 24C100K | 10.0 | 45 | 7.9 | 21 | 1.30 | 160 |
| 24C120K | 12.0 | 50 | 2.5 | 18 | 1.50 | 150 |
| 24C150K | 15.0 | 50 | 2.5 | 16 | 1.70 | 145 |
| 24C180K | 18.0 | 40 | 2.5 | 13 | 1.80 | 140 |
| 24C220K | 22.0 | 45 | 2.5 | 10 | 2.00 | 130 |
| 24C270K | 27.0 | 50 | 2.5 | 9 | 2.40 | 125 |
| 24C330K | 33.0 | 50 | 2.5 | 8 | 2.80 | 120 |
| 24C390K | 39.0 | 45 | 2.5 | 7 | 2.70 | 115 |
| 24C470K | 47.0 | 50 | 2.5 | 7 | 3.00 | 110 |
| 24C560K | 56.0 | 50 | 2.5 | 6.5 | 3.30 | 105 |
| 24C680K | 68.0 | 45 | 2.5 | 6 | 3.80 | 100 |
| 24C820K | 82.0 | 50 | 2.5 | 5.3 | 4.50 | 95 |
| 24C101K | 100 | 45 | 2.5 | 4.8 | 5.00 | 90 |
| 24C121K | 120 | 40 | 2.5 | 3.8 | 6.00 | 90 |
| 24C151K | 150 | 40 | 2.5 | 3.5 | 7.00 | 85 |
| 24C181K | 180 | 40 | 2.5 | 3.3 | 8.00 | 80 |
| 24C221K | 220 | 40 | 2.5 | 3.0 | 9.00 | 75 |