

**AXIAL CONFORMAL COATED  
RF INDUCTOR  
SERIES C5**

**FEATURES**

- Conformal coated inductors
- Same electrical parameters as MS-75087, MS75088, MS-75089, MS-90537
- Meets all requirements of MIL-C-15305
- Sturdy construction
- Low price

**ELECTRICAL CHARACTERISTICS**

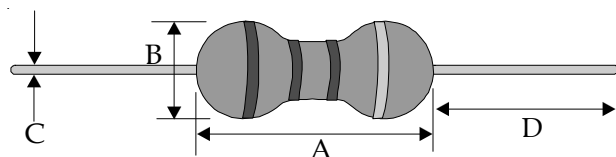
- Inductance range      1 $\mu$ H to 3300 $\mu$ H
- Tolerance                 $\pm$ 10% over entire range
- Rated current           Based on Lo changes within  $\pm$ 10% typical
- Testing procedures    L & Q are measured with Q Meter HP-4342A at specified frequency

**PHYSICAL CHARACTERISTICS**

- Dielectric strength    500 volts RMS
- Operating temp.       -55°C to +125°C
- Terminal strength     5 lbs pull test per MIL-STD-202E
- Resistance to solvent Conforms to MIL -STD-202E
- Construction          Epoxy coated
- Marking                 4 Band EIA color code
- Packaging                Bulk: 500 pieces per bag  
Reel: 5000 pieces per reel

**DIMENSIONS IN INCHES**

- Body length A          0.375" maximum
- Body diameter B       0.175" maximum
- Lead wire C            22 AWG/TCW
- Lead length D          1.15" nominal

**SPECIFICATIONS**

| Part Number | L ( $\mu$ H ) | Tol % $\pm$ | Q Min | Test Freq. (MHz) | SRF Min (MHz) | DCR Max ( $\Omega$ ) | Rated Current ( mA ) |
|-------------|---------------|-------------|-------|------------------|---------------|----------------------|----------------------|
| C5-1R0K     | 1.0           | 10          | 47    | 7.9              | 140           | 0.070                | 1900                 |
| C5-1R2K     | 1.2           | 10          | 46    | 7.9              | 130           | 0.093                | 1600                 |
| C5-1R5K     | 1.5           | 10          | 45    | 7.9              | 115           | 0.12                 | 1300                 |
| C5-1R8K     | 1.8           | 10          | 43    | 7.9              | 105           | 0.14                 | 1200                 |
| C5-2R2K     | 2.2           | 10          | 45    | 7.9              | 100           | 0.19                 | 1100                 |
| C5-2R7K     | 2.7           | 10          | 46    | 7.9              | 92            | 0.28                 | 950                  |
| C5-3R3K     | 3.3           | 10          | 44    | 7.9              | 85            | 0.35                 | 800                  |
| C5-3R9K     | 3.9           | 10          | 44    | 7.9              | 75            | 0.40                 | 750                  |
| C5-4R7K     | 4.7           | 10          | 44    | 7.9              | 70            | 0.55                 | 650                  |
| C5-5R6K     | 5.6           | 10          | 47    | 7.9              | 65            | 0.72                 | 550                  |
| C5-6R8K     | 6.8           | 10          | 50    | 7.9              | 55            | 1.02                 | 500                  |
| C5-8R2K     | 8.2           | 10          | 50    | 7.9              | 50            | 1.32                 | 475                  |
| C5-100K     | 10.0          | 10          | 49    | 7.9              | 46            | 1.62                 | 450                  |
| C5-120K     | 12            | 10          | 55    | 2.5              | 44            | 2.00                 | 400                  |
| C5-150K     | 15            | 10          | 44    | 2.5              | 49            | 0.80                 | 620                  |
| C5-180K     | 18            | 10          | 45    | 2.5              | 45            | 0.89                 | 610                  |
| C5-220K     | 22            | 10          | 46    | 2.5              | 40            | 0.96                 | 600                  |
| C5-270K     | 27            | 10          | 49    | 2.5              | 38            | 1.19                 | 500                  |
| C5-330K     | 33            | 10          | 45    | 2.5              | 34            | 1.37                 | 490                  |
| C5-390K     | 39            | 10          | 53    | 2.5              | 29            | 1.93                 | 410                  |
| C5-470K     | 47            | 10          | 52    | 2.5              | 27            | 2.11                 | 400                  |
| C5-560K     | 56            | 10          | 49    | 2.5              | 25            | 2.23                 | 380                  |
| C5-680K     | 68            | 10          | 51    | 2.5              | 21            | 2.70                 | 370                  |
| C5-820K     | 82            | 10          | 45    | 2.5              | 10.5          | 2.44                 | 360                  |
| C5-101K     | 100           | 10          | 45    | 2.5              | 10.0          | 3.12                 | 325                  |
| C5-121K     | 120           | 10          | 57    | 0.79             | 9.7           | 3.60                 | 290                  |
| C5-151K     | 150           | 10          | 56    | 0.79             | 8.5           | 4.10                 | 275                  |
| C5-181K     | 180           | 10          | 60    | 0.79             | 8.0           | 4.40                 | 260                  |
| C5-221K     | 220           | 10          | 58    | 0.79             | 7.5           | 5.00                 | 250                  |
| C5-271K     | 270           | 10          | 60    | 0.79             | 7.0           | 5.80                 | 240                  |
| C5-331K     | 330           | 10          | 54    | 0.79             | 6.5           | 6.40                 | 225                  |
| C5-391K     | 390           | 10          | 67    | 0.79             | 6.2           | 7.40                 | 200                  |
| C5-471K     | 470           | 10          | 60    | 0.79             | 5.7           | 9.50                 | 180                  |
| C5-561K     | 560           | 10          | 60    | 0.79             | 4.7           | 10.5                 | 174                  |
| C5-681K     | 680           | 10          | 60    | 0.79             | 4.5           | 11.8                 | 168                  |
| C5-821K     | 820           | 10          | 57    | 0.79             | 4.2           | 13.0                 | 152                  |
| C5-102K     | 1000          | 10          | 65    | 0.79             | 3.8           | 17.5                 | 135                  |
| C5-122K     | 1200          | 10          | 45    | 0.25             | 1.5           | 22.1                 | 115                  |
| C5-152K     | 1500          | 10          | 49    | 0.25             | 1.2           | 26.5                 | 110                  |
| C5-182K     | 1800          | 10          | 47    | 0.25             | 1.0           | 29.9                 | 105                  |
| C5-222K     | 2200          | 10          | 50    | 0.25             | 0.97          | 33.8                 | 99                   |
| C5-272K     | 2700          | 10          | 47    | 0.25             | 0.92          | 47.3                 | 83                   |
| C5-332K     | 3300          | 10          | 43    | 0.25             | 0.84          | 53.0                 | 80                   |