

**AXIAL CONFORMAL COATED  
RF INDUCTOR  
SERIES C2**

**FEATURES**

- Same electrical parameters as MS75083, MS75084, MS75085
- Low price
- Uniform coating

**ELECTRICAL CHARACTERISTICS**

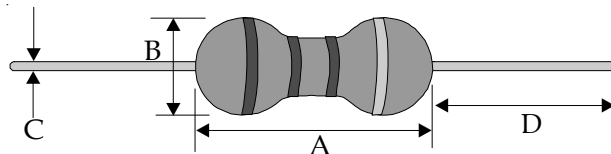
- Inductance range      0.10 $\mu$ H to 1000 $\mu$ H
- Tolerance                 $\pm$ 10% over entire range\*
- Rated current           Based on Lo changes within  $\pm$ 10% typical
- Test procedure        L & Q are measured with Q Meter HP-4342A @ specified frequency

**PHYSICAL CHARACTERISTICS**

- Dielectric strength    500 volts RMS
- Operating temp.       -55°C to +125°C
- Terminal strength     5 lbs pull test per MIL-STD-202
- Resistance to solvents Conforms to MIL-STD-202
- Contruction            Epoxy coated
- Marking                 4 band EIA color code
- Packaging               Bulk 1000 pcs / bag  
Reel 5000 pcs

**DIMENSIONS IN INCHES**

- Body length A          0.25" maximum
- Body diameter B       0.10" maximum
- Lead wire C            24 AWG/TCW
- Lead length D          1.15" nominal



\*NOTE: Special tolerances are available on order.

**SPECIFICATIONS**

| Part Number | L ( $\mu$ H) | Tol % $\pm$ | Q Min | Test Freq. (MHz) | SRF Min (MHz) | DCR Max ( $\Omega$ ) | Rated Current (mA) |
|-------------|--------------|-------------|-------|------------------|---------------|----------------------|--------------------|
| C2-R10K     | 0.10         | 10          | 40    | 25               | 680           | 0.08                 | 1350               |
| C2-R12K     | 0.12         | 10          | 40    | 25               | 640           | 0.09                 | 1270               |
| C2-R15K     | 0.15         | 10          | 38    | 25               | 600           | 0.10                 | 1200               |
| C2-R18K     | 0.18         | 10          | 35    | 25               | 650           | 0.12                 | 1105               |
| C2-R22K     | 0.22         | 10          | 33    | 25               | 510           | 0.14                 | 1025               |
| C2-R27K     | 0.27         | 10          | 33    | 25               | 430           | 0.16                 | 960                |
| C2-R33K     | 0.33         | 10          | 30    | 25               | 410           | 0.22                 | 815                |
| C2-R39K     | 0.39         | 10          | 30    | 25               | 365           | 0.30                 | 700                |
| C2-R47K     | 0.47         | 10          | 30    | 25               | 330           | 0.35                 | 650                |
| C2-R56K     | 0.56         | 10          | 30    | 25               | 300           | 0.50                 | 545                |
| C2-R68K     | 0.68         | 10          | 28    | 25               | 275           | 0.60                 | 495                |
| C2-R82K     | 0.82         | 10          | 28    | 25               | 250           | 0.85                 | 415                |
| C2-1R0K     | 1.00         | 10          | 25    | 25               | 230           | 1.00                 | 385                |
| C2-1R2K     | 1.2          | 10          | 25    | 7.9              | 150           | 0.18                 | 590                |
| C2-1R5K     | 1.5          | 10          | 28    | 7.9              | 140           | 0.22                 | 535                |
| C2-1R8K     | 1.8          | 10          | 30    | 7.9              | 125           | 0.30                 | 455                |
| C2-2R2K     | 2.2          | 10          | 30    | 7.9              | 115           | 0.40                 | 395                |
| C2-2R7K     | 2.7          | 10          | 37    | 7.9              | 100           | 0.55                 | 355                |
| C2-3R3K     | 3.3          | 10          | 45    | 7.9              | 90            | 0.85                 | 270                |
| C2-3R9K     | 3.9          | 10          | 45    | 7.9              | 80            | 1.00                 | 250                |
| C2-4R7K     | 4.7          | 10          | 45    | 7.9              | 75            | 1.20                 | 230                |
| C2-5R6K     | 5.6          | 10          | 50    | 7.9              | 65            | 1.80                 | 185                |
| C2-6R8K     | 6.8          | 10          | 50    | 7.9              | 60            | 2.00                 | 175                |
| C2-8R2K     | 8.2          | 10          | 55    | 7.9              | 55            | 2.70                 | 155                |
| C2-100K     | 10           | 10          | 55    | 7.9              | 50            | 2.70                 | 130                |
| C2-120K     | 12           | 10          | 45    | 2.5              | 40.0          | 2.70                 | 155                |
| C2-150K     | 15           | 10          | 40    | 2.5              | 35.0          | 2.80                 | 150                |
| C2-180K     | 18           | 10          | 50    | 2.5              | 30.0          | 3.10                 | 145                |
| C2-220K     | 22           | 10          | 50    | 2.5              | 25.0          | 3.30                 | 140                |
| C2-270K     | 27           | 10          | 50    | 2.5              | 20.0          | 3.50                 | 135                |
| C2-330K     | 33           | 10          | 45    | 2.5              | 24.0          | 3.40                 | 130                |
| C2-390K     | 39           | 10          | 45    | 2.5              | 22.0          | 3.60                 | 125                |
| C2-470K     | 47           | 10          | 45    | 2.5              | 20.0          | 4.50                 | 110                |
| C2-560K     | 56           | 10          | 45    | 2.5              | 18.0          | 5.70                 | 100                |
| C2-680K     | 68           | 10          | 50    | 2.5              | 15.0          | 6.70                 | 92                 |
| C2-820K     | 82           | 10          | 50    | 2.5              | 14.0          | 7.30                 | 88                 |
| C2-101K     | 100          | 10          | 50    | 2.5              | 13.0          | 8.00                 | 84                 |
| C2-121K     | 120          | 10          | 30    | 0.79             | 12.0          | 13                   | 66                 |
| C2-151K     | 150          | 10          | 30    | 0.79             | 11.0          | 15                   | 61                 |
| C2-181K     | 180          | 10          | 30    | 0.79             | 10.0          | 17                   | 57                 |
| C2-221K     | 220          | 10          | 30    | 0.79             | 9.0           | 21                   | 52                 |
| C2-271K     | 270          | 10          | 30    | 0.79             | 8.0           | 25                   | 47                 |
| C2-331K     | 330          | 10          | 30    | 0.79             | 7.0           | 28                   | 45                 |
| C2-391K     | 390          | 10          | 30    | 0.79             | 6.5           | 35                   | 40                 |
| C2-471K     | 470          | 10          | 30    | 0.79             | 6.0           | 42                   | 36                 |
| C2-561K     | 560          | 10          | 30    | 0.79             | 5.0           | 46                   | 35                 |
| C2-681K     | 680          | 10          | 30    | 0.79             | 4.0           | 60                   | 30                 |
| C2-821K     | 820          | 10          | 30    | 0.79             | 3.8           | 65                   | 29                 |
| C2-102K     | 1000         | 10          | 30    | 0.79             | 3.4           | 72                   | 28                 |