

Features

- Formerly *J.W. Miller* model
- Current rating up to 920 mA
- Inductance range: 1.0 μH to 1,000 μH
- RoHS compliant*

Applications

- DC/DC converters
- Power supplies
- General use

77F Series Conformal Coated RF Choke

Electrical Specifications (@ 25 °C)

| Bourns Part No. | Inductance | | Q Min. | Test Frequency (MHz) | SRF (MHz) Min. | DCR (Ω) Max. | Idc (mA) |
|-----------------|-------------------|----------|-----------|----------------------------|----------------------|-----------------------------|-------------|
| | (μH) | Tol. (%) | | | | | |
| 77F-1R0K-RC | 1.0 | ± 10 | 45 | 25.2 | 157 | 0.17 | 920 |
| 77F-1R2K-RC | 1.2 | ± 10 | 50 | 7.96 | 144 | 0.21 | 880 |
| 77F-1R5K-RC | 1.5 | ± 10 | 50 | 7.96 | 131 | 0.23 | 830 |
| 77F-1R8K-RC | 1.8 | ± 10 | 55 | 7.96 | 121 | 0.25 | 790 |
| 77F-2R2K-RC | 2.2 | ± 10 | 55 | 7.96 | 110 | 0.28 | 750 |
| 77F-2R7K-RC | 2.7 | ± 10 | 60 | 7.96 | 100 | 0.30 | 720 |
| 77F-3R3K-RC | 3.3 | ± 10 | 65 | 7.96 | 94 | 0.34 | 670 |
| 77F-3R9K-RC | 3.9 | ± 10 | 65 | 7.96 | 86 | 0.37 | 640 |
| 77F-4R7K-RC | 4.7 | ± 10 | 70 | 7.96 | 80 | 0.39 | 620 |
| 77F-5R6K-RC | 5.6 | ± 10 | 70 | 7.96 | 74 | 0.43 | 590 |
| 77F-5R8K-RC | 6.8 | ± 10 | 75 | 7.96 | 68 | 0.48 | 550 |
| 77F-8R2K-RC | 8.2 | ± 10 | 80 | 7.96 | 53 | 0.52 | 530 |
| 77F-10K-RC | 10 | ± 10 | 85 | 7.96 | 45 | 0.58 | 500 |
| 77F-120K-RC | 12 | ± 10 | 75 | 2.52 | 34 | 0.63 | 480 |
| 77F-150K-RC | 15 | ± 10 | 70 | 2.52 | 20 | 0.72 | 460 |
| 77F-180K-RC | 18 | ± 10 | 65 | 2.52 | 14 | 0.77 | 430 |
| 77F-220K-RC | 22 | ± 10 | 60 | 2.52 | 9.9 | 0.84 | 410 |
| 77F-270K-RC | 27 | ± 10 | 55 | 2.52 | 7.6 | 0.94 | 390 |
| 77F-330J-RC | 33 | ± 5 | 55 | 2.52 | 6.3 | 1.03 | 370 |
| 77F-390J-RC | 39 | ± 5 | 50 | 2.52 | 6.3 | 1.12 | 350 |
| 77F-470J-RC | 47 | ± 5 | 45 | 2.52 | 6.3 | 1.22 | 340 |
| 77F-560J-RC | 56 | ± 5 | 40 | 2.52 | 6.2 | 1.34 | 320 |
| 77F-680J-RC | 68 | ± 5 | 40 | 2.52 | 5.7 | 1.47 | 305 |
| 77F-820J-RC | 82 | ± 5 | 35 | 2.52 | 5.3 | 1.62 | 290 |
| 77F-101J-RC | 100 | ± 5 | 30 | 0.796 | 4.8 | 1.80 | 275 |
| 77F-121J-RC | 120 | ± 5 | 70 | 0.796 | 3.8 | 3.7 | 185 |
| 77F-151J-RC | 150 | ± 5 | 70 | 0.796 | 3.5 | 4.2 | 175 |
| 77F-181J-RC | 180 | ± 5 | 70 | 0.796 | 3.3 | 4.6 | 165 |
| 77F-221J-RC | 220 | ± 5 | 70 | 0.796 | 3.0 | 5.1 | 155 |
| 77F-271J-RC | 270 | ± 5 | 65 | 0.796 | 2.8 | 5.8 | 145 |
| 77F-331J-RC | 330 | ± 5 | 65 | 0.796 | 2.6 | 6.4 | 137 |
| 77F-391J-RC | 390 | ± 5 | 65 | 0.796 | 2.4 | 7.0 | 133 |
| 77F-471J-RC | 470 | ± 5 | 60 | 0.796 | 2.25 | 7.7 | 126 |
| 77F-561J-RC | 560 | ± 5 | 60 | 0.796 | 2.10 | 8.5 | 120 |
| 77F-681J-RC | 680 | ± 5 | 55 | 0.796 | 1.95 | 9.4 | 113 |
| 77F-821J-RC | 820 | ± 5 | 55 | 0.796 | 1.85 | 10.5 | 105 |
| 77F-102J-RC | 1000 | ± 5 | 50 | 0.796 | 1.40 | 14.0 | 100 |

General Specifications

Temperature Rise35 °C at Idc
 Operating Temperature ..-55 °C to +105 °C
 Storage Temperature.....-55 °C to +105 °C
 Dielectric Strength.....500 Vrms

Materials

Core.....Ferrite
 Wire.....Polyester copper
 Terminal Coating.....Sn-Ag-Cu alloy
 Coating.....Epoxy resin
 Packaging
 Standard.....5000 pcs. per bag
 Optional.....5000 pcs. per 14-inch reel

How To Order

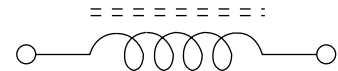
77F - 151J - - RC

Model _____
 Value Code _____
 (See table)
 Packaging Code _____
 Blank = 5000 pcs./bag
 TR = 5000 pcs./14-inch reel
 Compliance Code _____
 RC = RoHS compliant*

Examples:

- 77F-151J-RC = 150 μH packaged 5000 pcs./bag.
- 77F-102J-TR-RC = 1000 μH packaged 5000 pcs./14-inch reel.

Electrical Schematic

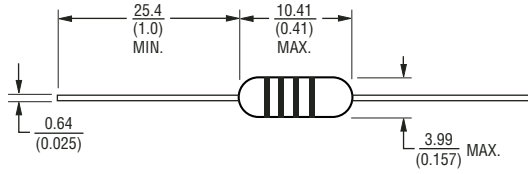


*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

77F Series Conformal Coated RF Choke



Product Dimensions

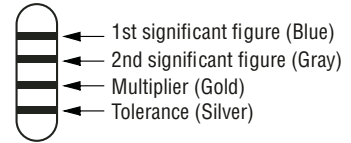


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Typical Part Marking - EIA Color Code

| Color | 1st & 2nd Significant Figure | Multiplier | Tolerance |
|--------|------------------------------|------------|-----------|
| Silver | | 0.01 | ±10 % |
| Gold | | 0.1 | ±5 % |
| Black | 0 | 1 | |
| Brown | 1 | 10 | |
| Red | 2 | 100 | |
| Orange | 3 | 1000 | |
| Yellow | 4 | | |
| Green | 5 | | |
| Blue | 6 | | |
| Violet | 7 | | |
| Gray | 8 | | |
| White | 9 | | |

Example for L value less than 10 μH
6.8 μH , ±10 %



Example for L value 10 μH and higher
270 μH , ±5 %

