

Features

- Formerly J. W. Miller® model
- Current rating up to 920 mA
- Inductance range: 1.0 μ H to 1,000 μ H
- 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) |
|-----------------|------------|----------|--------|----------------------|----------------|-----------------------|----------|
| | (μ H) | Tol. (%) | | | | | |
| 77F1R0K-RC | 1.0 | ± 10 | 50 | 25.2 | 157 | 0.17 | 920 |
| 77F1R2K-RC | 1.2 | ± 10 | 50 | 7.96 | 144 | 0.18 | 880 |
| 77F1R5K-RC | 1.5 | ± 10 | 50 | 7.96 | 131 | 0.20 | 830 |
| 77F1R8K-RC | 1.8 | ± 10 | 50 | 7.96 | 121 | 0.22 | 790 |
| 77F2R2K-RC | 2.2 | ± 10 | 50 | 7.96 | 110 | 0.24 | 750 |
| 77F2R7K-RC | 2.7 | ± 10 | 60 | 7.96 | 100 | 0.25 | 720 |
| 77F3R3K-RC | 3.3 | ± 10 | 60 | 7.96 | 94 | 0.30 | 670 |
| 77F3R9K-RC | 3.9 | ± 10 | 60 | 7.96 | 86 | 0.35 | 640 |
| 77F4R7K-RC | 4.7 | ± 10 | 70 | 7.96 | 80 | 0.40 | 620 |
| 77F5R6K-RC | 5.6 | ± 10 | 70 | 7.96 | 74 | 0.45 | 590 |
| 77F6R8K-RC | 6.8 | ± 10 | 75 | 7.96 | 68 | 0.50 | 550 |
| 77F8R2K-RC | 8.2 | ± 10 | 80 | 7.96 | 53 | 0.52 | 530 |
| 77F100K-RC | 10 | ± 10 | 85 | 7.96 | 40 | 0.65 | 500 |
| 77F120K-RC | 12 | ± 10 | 75 | 2.52 | 34 | 0.70 | 480 |
| 77F150K-RC | 15 | ± 10 | 70 | 2.52 | 20 | 0.75 | 460 |
| 77F180K-RC | 18 | ± 10 | 60 | 2.52 | 14 | 0.80 | 430 |
| 77F220K-RC | 22 | ± 10 | 60 | 2.52 | 9.9 | 0.90 | 410 |
| 77F270K-RC | 27 | ± 10 | 50 | 2.52 | 7.6 | 1.00 | 390 |
| 77F330J-RC | 33 | ± 5 | 50 | 2.52 | 6.5 | 1.10 | 370 |
| 77F390J-RC | 39 | ± 5 | 50 | 2.52 | 6.5 | 1.20 | 350 |
| 77F470J-RC | 47 | ± 5 | 45 | 2.52 | 6.3 | 1.30 | 340 |
| 77F560J-RC | 56 | ± 5 | 45 | 2.52 | 6.2 | 1.50 | 320 |
| 77F680J-RC | 68 | ± 5 | 40 | 2.52 | 5.7 | 1.80 | 305 |
| 77F820J-RC | 82 | ± 5 | 35 | 2.52 | 5.3 | 2.00 | 290 |
| 77F101J-RC | 100 | ± 5 | 30 | 2.52 | 4.8 | 2.50 | 275 |
| 77F121J-RC | 120 | ± 5 | 60 | 0.796 | 3.8 | 3.0 | 185 |
| 77F151J-RC | 150 | ± 5 | 60 | 0.796 | 3.5 | 4.0 | 175 |
| 77F181J-RC | 180 | ± 5 | 60 | 0.796 | 3.0 | 4.5 | 165 |
| 77F221J-RC | 220 | ± 5 | 60 | 0.796 | 2.8 | 5.0 | 155 |
| 77F271J-RC | 270 | ± 5 | 60 | 0.796 | 2.6 | 6.0 | 145 |
| 77F331J-RC | 330 | ± 5 | 60 | 0.796 | 2.4 | 6.5 | 137 |
| 77F391J-RC | 390 | ± 5 | 55 | 0.796 | 2.0 | 7.5 | 133 |
| 77F471J-RC | 470 | ± 5 | 50 | 0.796 | 1.8 | 8.5 | 126 |
| 77F561J-RC | 560 | ± 5 | 50 | 0.796 | 1.6 | 9.5 | 120 |
| 77F681J-RC | 680 | ± 5 | 45 | 0.796 | 1.6 | 12.0 | 113 |
| 77F821J-RC | 820 | ± 5 | 45 | 0.796 | 1.4 | 14.0 | 105 |
| 77F102J-RC | 1000 | ± 5 | 50 | 0.796 | 1.2 | 20.0 | 100 |

General Specifications

Temperature Rise 35 °C at I_{dc}
 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..... 5000 pcs. per 14-inch reel

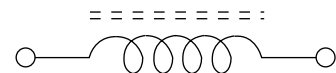
How to Order

77F 151J - TR - RC

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

Example:
 77F102J-TR-RC = 1000 μ H packaged
 5000 pcs./14-inch reel.

Electrical Schematic

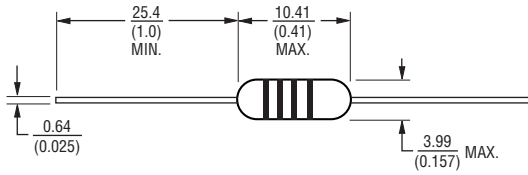


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

77F Series Conformal Coated RF Choke

BOURNS®

Product Dimensions

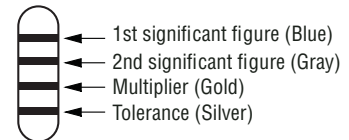


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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 6.8 μH , ±10 %



Example for 270 μH , ±5 %

