

Features

- Formerly **J.W.Miller**® model
- Current rating up to 920 mA
- Inductance range: $1.0 \mu H$ to $1,000 \mu H$
- RoHS compliant*

Applications

- DC/DC converters
- Power supplies
- General use

77F Series Conformal Coated RF Choke

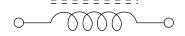
Electrical Specifications (@ 25 °C)

Bourns Part No.	Inductance			Test	SRF	DCR	
	(μH)	Tol. (%)	Q Min.	Frequency (MHz)	(MHz) Min.	(Ω) Max.	ldc (mA)
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 Specification	••
Temperature Rise Operating Temperatur	
Storage Temperature	
Dielectric Strength	500 Vrms
Materials	
Materials Core	Ferrite
Core	
	Polyester copper
Core	Polyester copper Sn-Ag-Cu alloy

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 μH packaged 5000 pcs./14-inch reel.

Electrical Schematic

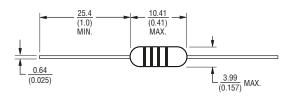




77F Series Conformal Coated RF Choke

BOURNS

Product Dimensions



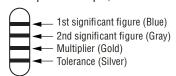
DIMENSIONS: $\frac{MM}{(INCHES)}$

Typical Part Marking - EIA Color Code

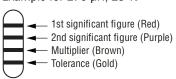
1st & 2nd Significant Figure

	Oigiiiioaiii		
Color	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 μ H, ± 10 %



Example for 270 μ H, ± 5 %



BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

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77F471J 77F100K 77F101J 77F100-TR-RC 77F560J-RC 77F5471J-TR-RC 77F4R7K-RC 77F2R7K-RC 77F221J-RC 77F8R2K-TR-RC 77F470J-TR-RC 77F181J-RC 77F681J-RC 77F151J-RC 77F1R8K-RC 77F1R5K-TR-RC 77F1R2K-RC 77F2R2K-TR-RC 77F561J-RC 77F220K-RC 77F3R3K-RC 77F120K-TR-RC 77F389IJ 77F389K 77F187K 77F151J 77F560J 77F383IJ 77F5R6K 77F1R8K 77F120K 77F270K 77F271J-RC 77F101J-TR-RC 77F220K-TR-RC 77F151J-TR-RC 77F1R0K-TR-RC 77F3R9K-RC 77F180K-RC 77F180K-RC 77F180K-RC 77F820J-RC 77F680J-RC 77F330J-TR-RC 77F1R0K-RC 77F688K-RC 77F120J-TR-RC 77F5R6K-RC 77F270K-RC 77F390J-RC 77F331J-RC 77F381J-TR-RC 77F821J-RC 77F102J-TR-RC 77F680J-TR-RC 77F101-TR-RC 77F271J 77F1R0K 77F688K 77F185K 77F383K 77F180K 77F470J 77F2R2K 77F8R2K 77F4R7K 77F330J 77F561J 77F680J 77F220K 77F120J 77F390J 77F102J 77F681J 77F221J 77F180K 77F181J 77F820J 77F182K 77F100K-TR-RC 77F221J-TR-RC 77F3R9K-TR-RC 77F3R3K-TR-RC 77F383L-TR-RC 77F381J-TR-RC 77F381J-TR-RC 77F389K-TR-RC 77F586K-TR-RC 77F681J-TR-RC 77F560J-TR-RC 77F188K-TR-RC 77F821J-TR-RC 77F4R7K-TR-RC 77F380J-TR-RC 77F561J-TR-RC 77F561J-TR-RC 77F820J-TR-RC 77F681J-TR-RC 77F560J-TR-RC 77F188K-TR-RC 77F820J-TR-RC 77F487K-TR-RC 77F561J-TR-RC 7