

Varnished Chokes

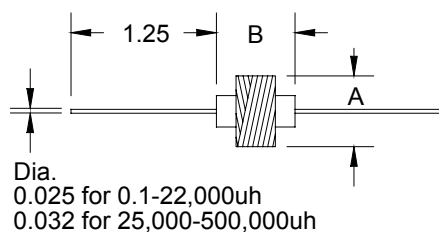
Special Features

- High Q, high self-resonant frequency
- High voltage application on phenolic and ferrite components
- Universal wound
- Low cost
- Varnish coated
- Operating temperature:
phenolic -55 to +125 °C;
iron, ferrite -55 to +105 °C

Notes

* Current to cause 35 °C max. temperature rise

† RoHS Directive 2002/95/EC Jan 27 2003
including Annex.



Dimensions: Inches

70F Series									
Part Number	L (μH) ±20 %	Q	Test Freq. (MHz)	SRF	DCR Ω Max.	I, DC* (mA)	Dim. A Max	Dim. B ±0.03	Core Material
70F107AP-RC	0.10	49	25	600	0.13	3922	0.15	0.31	Phenolic
70F157AP-RC	0.15	52	25	490	0.25	2828	0.14	0.31	Phenolic
70F227AP-RC	0.22	48	25	400	0.38	2294	0.14	0.31	Phenolic
70F337AP-RC	0.33	47	25	330	0.70	1690	0.12	0.31	Phenolic
70F477AP-RC	0.47	46	25	280	0.125	1264	0.12	0.31	Phenolic
70F687AP-RC	0.68	48	25	240	0.20	1000	0.12	0.31	Phenolic
70F757AP-RC	0.75	48	25	224	0.264	870	0.12	0.31	Phenolic
70F827AP-RC	0.82	48	25	216	0.29	830	0.12	0.31	Phenolic
70F106AI-RC	1.0	41	25	118	0.048	2041	0.16	0.25	Iron
±10 %									
70F126AI-RC	1.2	45	7.9	118	0.072	1666	0.16	0.25	Iron
70F156AI-RC	1.5	42	7.9	102	0.096	1443	0.16	0.25	Iron
70F186AI-RC	1.8	31	7.9	89	0.096	1443	0.16	0.25	Iron
70F226AI-RC	2.2	43	7.9	87	0.156	1132	0.16	0.25	Iron
70F276AI-RC	2.7	34	7.9	74	0.168	1091	0.16	0.25	Iron
70F336AI-RC	3.3	40	7.9	66	0.24	912	0.15	0.25	Iron
70F396AI-RC	3.9	35	7.9	61	0.264	870	0.15	0.25	Iron
70F476AI-RC	4.7	43	7.9	53	0.457	661	0.15	0.25	Iron
70F566AI-RC	5.6	41	7.9	49	0.492	637	0.15	0.25	Iron
70F686AI-RC	6.8	40	7.9	49	0.624	566	0.15	0.25	Iron
70F756AI-RC	7.5	32	7.9	44	0.624	566	0.15	0.25	Iron
70F826AI-RC	8.2	37	7.9	41	0.744	518	0.15	0.25	Iron
70F916AI-RC	9.1	41	7.9	21	1.44	288	0.16	0.25	Iron
70F105AI-RC	10	36	7.9	19	1.56	277	0.16	0.25	Iron
70F125AI-RC	12	52	2.5	19	1.68	267	0.16	0.25	Iron
70F155AI-RC	15	52	2.5	16	1.92	250	0.16	0.25	Iron
±5 %									
70F185AI-RC	18	52	2.5	15	2.28	229	0.16	0.25	Iron
70F225AI-RC	22	51	2.5	13	2.28	229	0.16	0.25	Iron
70F255AI-RC	25	48	2.5	13	2.64	213	0.17	0.25	Iron
70F275AI-RC	27	49	2.5	12	2.64	213	0.17	0.25	Iron
70F335AI-RC	33	50	2.5	10	2.76	208	0.17	0.25	Iron
70F395AI-RC	39	48	2.5	9.3	3.36	188	0.17	0.25	Iron
70F475AI-RC	47	44	2.5	9.1	3.36	188	0.17	0.25	Iron
70F565AI-RC	56	45	2.5	8.6	3.84	176	0.18	0.25	Iron
70F685AI-RC	68	42	2.5	8.1	4.2	169	0.18	0.25	Iron
70F755AI-RC	75	38	2.5	7.2	4.56	162	0.18	0.25	Iron
70F825AI-RC	82	41	2.5	6.7	4.8	158	0.18	0.25	Iron
70F915AI-RC	91	41	2.5	6.7	4.92	156	0.18	0.25	Iron
70F104AI-RC	100	25	2.5	3.6	7.68	139	0.16	0.25	Iron
70F124AI-RC	120	40	0.79	3.2	8.16	135	0.16	0.25	Iron
70F154AI-RC	150	47	0.79	3.0	8.16	135	0.16	0.25	Iron
70F184AI-RC	180	48	0.79	2.8	8.16	135	0.17	0.25	Iron
70F204AI-RC	200	47	0.79	2.7	10.3	120	0.17	0.25	Iron
70F224AI-RC	220	46	0.79	2.5	11.5	114	0.17	0.25	Iron
70F254AI-RC	250	49	0.79	2.5	12.1	111	0.17	0.25	Iron
70F274AI-RC	270	46	0.79	2.5	13.2	106	0.17	0.25	Iron
70F304AI-RC	300	46	0.79	2.2	13.2	106	0.17	0.25	Iron
70F334AI-RC	330	41	0.79	2.0	13.9	103	0.17	0.25	Iron
70F354AI-RC	350	46	0.79	2.0	14.4	102	0.18	0.25	Iron

“-RC” suffix indicates RoHS compliance.

Continued next page.

BOURNS®

Tel. (877) 426-8767 • Fax (951) 781-5006

www.bourns.com

Varnished Chokes

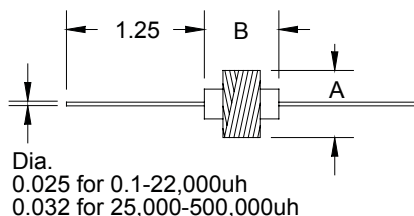
Special Features

- High Q, high self-resonant frequency
- High voltage application on phenolic and ferrite components
- Universal wound
- Low cost
- Varnish coated
- Operating temperature:
phenolic -55 to +125 °C;
iron, ferrite -55 to +105 °C

Notes

* Current to cause 35 °C max. temperature rise

† RoHS Directive 2002/95/EC Jan 27 2003 including Annex.



Dimensions: Inches

70F Series continued									
Part Number	L (μH) ±5 %	Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	DCR Ω Max.	I, DC* (mA)	Dim. A Max	Dim. B ±0.03	Core Material
70F394AI-RC	390	45	0.79	2.0	15.8	97	0.18	0.25	Iron
70F474AI-RC	470	35	0.79	1.8	16.3	95	0.18	0.25	Iron
70F504AI-RC	500	49	0.79	1.8	18.0	91	0.19	0.25	Iron
70F564AI-RC	560	41	0.79	1.7	19.2	88	0.19	0.25	Iron
70F684AI-RC	680	37	0.79	1.6	19.8	87	0.2	0.25	Iron
70F754AI-RC	750	40	0.79	1.6	22.9	80	0.21	0.25	Iron
70F824AI-RC	820	33	0.79	1.6	22.9	80	0.21	0.25	Iron
70F914AI-RC	910	32	0.79	1.4	24.0	79	0.22	0.25	Iron
70F103AI-RC	1000	30	0.79	1.4	24.0	79	0.22	0.25	Iron
70F123AI-RC	1200	34	0.25	1.2	33.6	66	0.22	0.25	Iron
70F153AI-RC	1500	40	0.25	1.1	37.2	63	0.22	0.25	Iron
70F183AI-RC	1800	40	0.25	0.96	42.0	59	0.23	0.25	Iron
70F223AI-RC	2200	40	0.25	0.96	45.6	57	0.24	0.25	Iron
70F253AI-RC	2500	48	0.25	0.96	45.6	57	0.26	0.38	Iron
70F273AI-RC	2700	50	0.25	0.88	45.6	57	0.26	0.38	Iron
70F333AI-RC	3300	52	0.25	0.80	51.6	53	0.26	0.38	Iron
70F393AI-RC	3900	53	0.25	0.76	57.6	51	0.27	0.38	Iron
70F473AI-RC	4700	49	0.25	0.68	64.8	48	0.28	0.38	Iron
70F563AI-RC	5600	53	0.25	0.68	69.6	46	0.3	0.38	Iron
70F683AI-RC	6800	51	0.25	0.64	78	43	0.31	0.38	Iron
70F753AI-RC	7500	49	0.25	0.60	85.2	41	0.31	0.38	Iron
70F823AI-RC	8200	48	0.25	0.60	92.4	40	0.33	0.38	Iron
70F913AI-RC	9100	52	0.25	0.56	98.4	39	0.33	0.38	Iron
70F102AI-RC	10,000	41	0.25	0.52	101	38	0.33	0.38	Iron
70F122AI-RC	12,000	46	0.079	0.36	100	50	0.3	0.50	Iron
70F152AI-RC	15,000	50	0.079	0.32	113	47	0.3	0.50	Iron
70F182AI-RC	18,000	49	0.079	0.29	128	44	0.32	0.50	Iron
70F222AI-RC	22,000	50	0.079	0.27	144	41	0.33	0.50	Iron
70F252AF-RC	25,000	59	0.079	0.25	115	46	0.34	0.63	Ferrite
70F272AF-RC	27,000	61	0.079	0.244	120	45	0.35	0.63	Ferrite
70F332AF-RC	33,000	61	0.079	0.232	134	43	0.35	0.63	Ferrite
70F392AF-RC	39,000	59	0.079	0.22	147	41	0.37	0.63	Ferrite
70F472AF-RC	47,000	57	0.079	0.206	168	38	0.38	0.63	Ferrite
70F502AF-RC	50,000	57	0.079	0.196	175	37	0.4	0.63	Ferrite
70F562AF-RC	56,000	57	0.079	0.188	189	36	0.4	0.63	Ferrite
70F682AF-RC	68,000	57	0.079	0.18	215	34	0.41	0.63	Ferrite
70F752AF-RC	75,000	53	0.079	0.174	222	33	0.43	0.63	Ferrite
70F822AF-RC	82,000	50	0.079	0.168	238	32	0.43	0.63	Ferrite
70F912AF-RC	91,000	51	0.079	0.166	250	31	0.43	0.63	Ferrite
70F101AF-RC	100,000	48	0.079	0.157	278	29	0.44	0.63	Ferrite
L tested @ 1 KHz									
70F121AF-RC	120,000	46	0.025	0.084	288	48	0.48	0.88	Ferrite
70F151AF-RC	150,000	49	0.025	0.077	328	44	0.50	0.88	Ferrite
70F181AF-RC	180,000	51	0.025	0.075	374	41	0.52	0.88	Ferrite
70F221AF-RC	220,000	51	0.025	0.07	424	39	0.54	0.88	Ferrite
70F251AF-RC	250,000	52	0.025	0.065	468	37	0.55	0.88	Ferrite
70F271AF-RC	270,000	53	0.025	0.062	490	36	0.57	0.88	Ferrite
70F331AF-RC	330,000	54	0.025	0.06	540	34	0.58	0.88	Ferrite
70F391AF-RC	390,000	54	0.025	0.056	617	33	0.6	0.88	Ferrite
70F471AF-RC	470,000	55	0.025	0.054	704	30	0.61	0.88	Ferrite
70F501AF-RC	500,000	53	0.025	0.052	736	30	0.63	0.88	Ferrite

“-RC” suffix indicates RoHS compliance.

BOURNS®

Tel. (877) 426-8767 • Fax (951) 781-5006

www.bourns.com