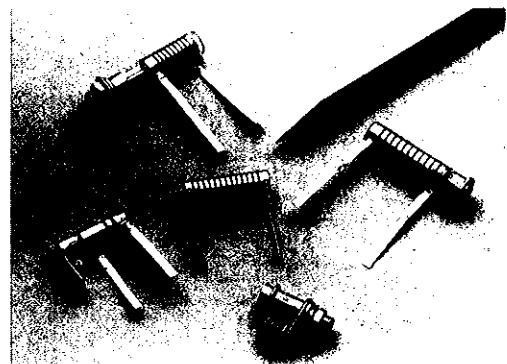


JFD® METALIZED INDUCTORS AND LC TUNERS

FEATURES

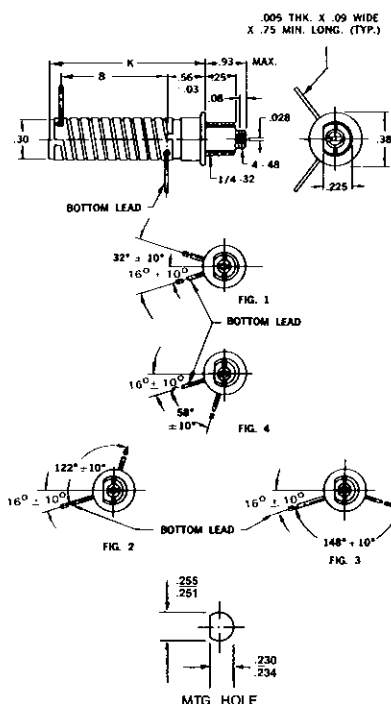
The JFD LC tuner line, now manufactured by Sprague-Goodman, combines in a single unit a precision piston trimmer with a fixed metalized inductor providing a stable compact tunable series resonant LC circuit. The tank circuit line offers the precision piston trimmer with a parallel mounted coil for parallel resonance tuning. Fixed and variable metalized inductors on low-loss glass offer the ultimate in inductor simplicity and extreme stability.



VARIABLE METALIZED INDUCTORS LV5P SERIES

LV5P Series are variable metalized glass units yielding inductance values of from .03 μ H to 1.5 μ H in a sequence of overlapping ranges. Excellent stability of approx. ± 10 ppm/ $^{\circ}$ C is the result of a unique intimate-bonding metalizing process with a special low-loss glass. Adjustment range is $\pm 10\%$ from nominal value and

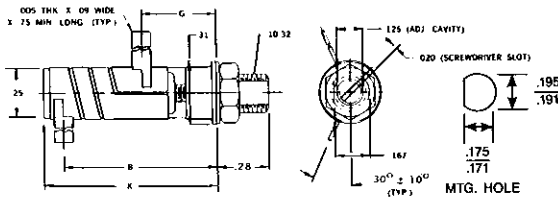
LV5P Series inductors have typical minimum Q values of 100. These versatile units embody a fine vernier type adjustment mechanism of precision brass components for extremely stable operational performance over a wide temperature range: -55° to $+125^{\circ}$ C.



Models	L(μ H)		Q min		at Freq. (MHz)	min SRF (MHz)	Lead Position See Fig.:	B $\pm .031$	K $\pm .031$
	min	max	L min	L max					
JFD-LV5P002	.029	.033	140	200	180	900	1	.594	1.234
JFD-LV5P003	.033	.039	130	195	180	850	2	.594	1.234
JFD-LV5P004	.039	.045	125	190	180	800	3	.594	1.234
JFD-LV5P005	.045	.050	120	185	180	750	1	.594	1.234
JFD-LV5P006	.050	.064	110	175	170	650	2	.594	1.234
JFD-LV5P007	.063	.081	100	170	160	580	2	.594	1.234
JFD-LV5P009	.081	.105	90	170	150	500	4	.594	1.234
JFD-LV5P012	.105	.135	95	170	140	450	3	.594	1.234
JFD-LV5P016	.135	.183	80	170	120	420	3	.594	1.234
JFD-LV5P022	.183	.257	80	160	100	300	1	.594	1.234
JFD-LV5P031	.257	.362	70	160	85	280	3	.594	1.234
JFD-LV5P044	.362	.510	65	150	75	250	3	.594	1.234
JFD-LV5P056	.510	.600	110	180	70	240	3	1.094	1.734
JFD-LV5P066	.600	.710	105	175	65	220	1	1.094	1.734
JFD-LV5P077	.710	.830	100	170	55	200	1	1.094	1.734
JFD-LV5P089	.830	.950	90	150	50	185	3	1.094	1.734
JFD-LV5P102	.950	1.100	80	145	45	175	1	1.094	1.734
JFD-LV5P118	1.100	1.260	80	145	45	175	1	1.094	1.734
JFD-LV5P138	1.260	1.500	80	145	40	160	3	1.094	1.734

- NOTES: 1. Current Rating: 0.5 amps, max
 2. Operating Temperature: -55° C to $+125^{\circ}$ C
 3. Temperature Coefficient: (approx.) ± 10 ppm/ $^{\circ}$ C
 4. Torque: 1-10 ounce-inches
 5. Tolerance: (unless otherwise specified) .XX \pm .02; .XXX \pm .005

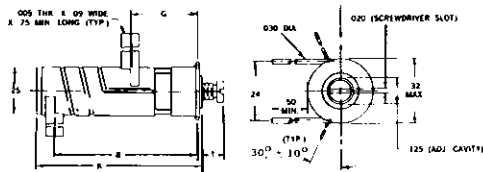
PANEL MOUNT



PHYSICAL DATA

Model	No. of Turns	B ± .06	G ± .06	K ± .03
JFD-LC303Y	1	.59	.32	.66
JFD-LC304Y	2	.80	.41	.87
JFD-LC306Y	3	1.05	.53	1.12
JFD-LC309Y	4	1.64	.90	1.71

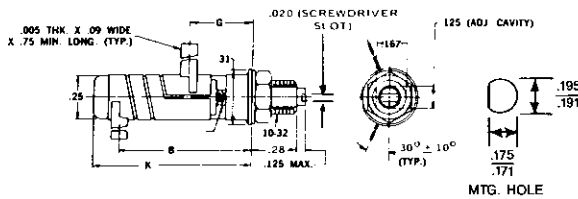
PRINTED CIRCUIT



PHYSICAL DATA

Model	No. of Turns	B ± .06	G ± .06	K ± .03	T max
JFD-LC323Y	1	.56	.31	.66	.22
JFD-LC324Y	2	.77	.40	.87	.25
JFD-LC326Y	3	1.03	.50	1.13	.31
JFD-LC329Y	4	1.62	.88	1.72	.25

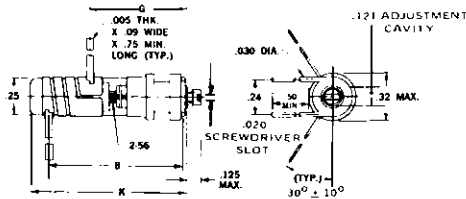
PANEL MOUNT SEALED



PHYSICAL DATA

Model	No. of Turns	B ± .06	G ± .06	K ± .03
JFD-LCS343Y	1	.69	.40	.81
JFD-LCS344Y	2	.91	.48	1.03
JFD-LCS346Y	3	1.26	.70	1.38
JFD-LCS349Y	4	1.90	1.13	2.02

PRINTED CIRCUIT SEALED



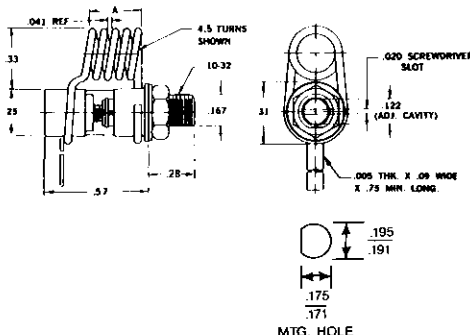
PHYSICAL DATA

Model	No. of Turns	B ± .06	G ± .06	K ± .03
JFD-LCS363Y	1	.91	.65	1.07
JFD-LCS364Y	2	1.13	.73	1.28
JFD-LCS366Y	3	1.48	.95	1.63
JFD-LCS369Y	4	2.12	1.38	2.27

ELECTRICAL CHARACTERISTICS

Models	SRF (MHz)	nom Coil "Q"	nom L Coil (µH)	nom Cap (pF)	Notes:
JFD-LC303Y, 323Y, S343Y, S363Y	450 to 725	150	.026	0.6 - 5.5	1. Operating temperature: -55° to +125°C 2. Temperature Coefficient: +40 ± 30 ppm/°C 3. Torque: 1-10 in. oz.
JFD-LC304Y, 324Y, S344Y, S364Y	300 to 550	150	.038	0.9 - 8.5	
JFD-LC306Y, 326Y, S346Y, S366Y	225 to 500	150	.053	0.9 - 12.0	
JFD-LC309Y, 329Y, S349Y, S369Y	150 to 375	150	.077	1.0 - 21.0	

TANK CIRCUITS (PARALLEL RESONANCE)

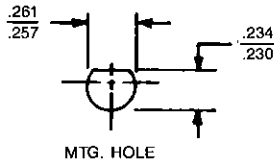
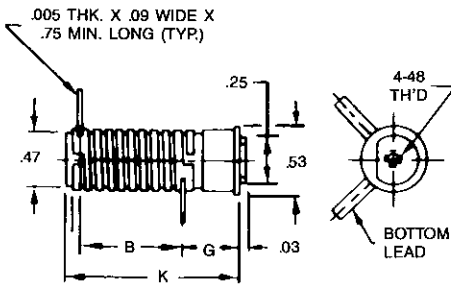


Model	SRF (MHz)	min Coil "Q"	At Freq. (MHz)	nom L Coil (µH)	nom Cap (pF)	No. of Turns	A ± .031"
JFD-LC371Y	450 to 1000	220	200	.015	0.8 - 8.5	1	.047
JFD-LC372Y	280 to 765	220	170	.039	0.8 - 8.5	2.5	.203
JFD-LC373Y	225 to 580	220	150	.064	0.8 - 8.5	4.5	.375
JFD-LC374Y	190 to 485	220	140	.087	0.8 - 8.5	6.5	.531
JFD-LC375Y	170 to 415	220	120	.120	0.8 - 8.5	8.5	.703

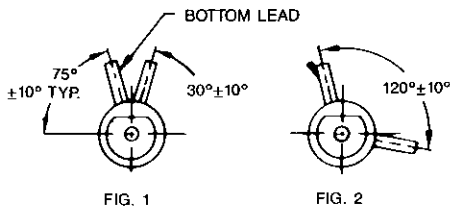
NOTES:

1. Operating Temperature: -55°C to +125°C
2. Temperature Coefficient: +25 ± 25 ppm/°C
3. Torque: 1-10 ounce-inches

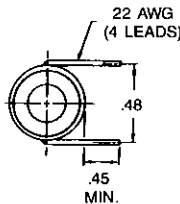
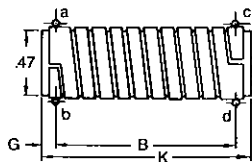
LF1P Series



Models	L ± 10% (μH)	Q min	at Freq. (MHz)	SRF min (MHz)	Lead Position See Fig.	B ± .031	G ± .031	K ± .031
JFD-LF1P005	0.05	125	75	620	3	.250	.312	.625
JFD-LF1P006	0.06	130	75	580	5	.250	.312	.641
JFD-LF1P008	0.08	135	75	480	3	.344	.312	.734
JFD-LF1P009	0.09	140	75	470	4	.344	.312	.734
JFD-LF1P010	0.10	145	75	465	5	.359	.312	.750
JFD-LF1P012	0.12	150	75	410	2	.422	.312	.813
JFD-LF1P014	0.14	100	75	400	5	.453	.312	.844
JFD-LF1P016	0.16	100	75	350	1	.500	.312	.891
JFD-LF1P018	0.18	105	75	320	3	.547	.312	.938
JFD-LF1P020	0.20	115	75	300	6	.578	.312	.953
JFD-LF1P025	0.25	135	75	280	5	.656	.312	1.047
JFD-LF1P030	0.30	140	75	260	5	.750	.312	1.141
JFD-LF1P035	0.35	105	75	255	5	.344	.297	.719
JFD-LF1P040	0.40	105	75	250	1	.375	.297	.750
JFD-LF1P045	0.45	105	75	245	5	.391	.297	.766
JFD-LF1P050	0.50	115	25	220	2	.438	.297	.813
JFD-LF1P060	0.60	115	25	200	2	.484	.297	.859
JFD-LF1P070	0.70	120	25	190	1	.516	.297	.891
JFD-LF1P080	0.80	125	25	180	1	.578	.197	.953
JFD-LF1P090	0.90	130	25	175	1	.656	.297	1.000
JFD-LF1P100	1.00	135	25	165	1	.672	.297	1.047
JFD-LF1P150	1.50	170	25	145	5	.859	.297	1.266
JFD-LF1P200	2.00	180	25	125	1	1.125	.297	1.500



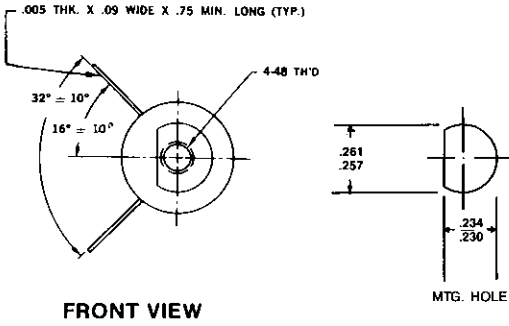
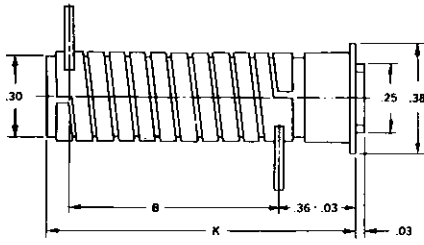
LF2W Series



FRONT VIEW

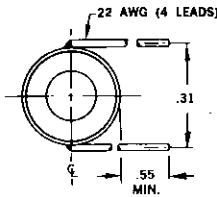
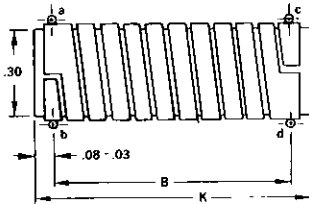
Models	L ± 10% (μH)	Q min	at Freq. (MHz)	SRF min (MHz)	B ± .031	G ± .031	K ± .031
JFD-LF2W005	0.05	135	75	690	.250	.094	.422
JFD-LF2W006	0.06	105	75	600	.250	.094	.438
JFD-LF2W008	0.08	100	75	560	.344	.094	.516
JFD-LF2W009	0.09	165	75	565	.344	.094	.531
JFD-LF2W010	0.10	165	75	510	.359	.094	.531
JFD-LF2W012	0.12	100	75	440	.422	.094	.609
JFD-LF2W014	0.14	185	75	430	.453	.094	.641
JFD-LF2W016	0.16	150	75	400	.500	.094	.688
JFD-LF2W018	0.18	125	75	385	.547	.094	.734
JFD-LF2W020	0.20	170	75	380	.578	.094	.781
JFD-LF2W025	0.25	200	75	370	.656	.094	.844
JFD-LF2W030	0.30	210	75	350	.750	.094	.938
JFD-LF2W035	0.35	105	75	270	.344	.078	.500
JFD-LF2W040	0.40	130	75	260	.375	.078	.516
JFD-LF2W045	0.45	165	75	250	.391	.078	.563
JFD-LF2W050	0.50	125	75	240	.438	.078	.578
JFD-LF2W060	0.60	110	25	225	.484	.078	.656
JFD-LF2W070	0.70	110	25	220	.516	.078	.672
JFD-LF2W080	0.80	140	25	200	.578	.078	.719
JFD-LF2W090	0.90	140	25	195	.656	.078	.781
JFD-LF2W100	1.00	140	25	190	.672	.078	.844
JFD-LF2W150	1.50	155	25	170	.859	.078	1.047
JFD-LF2W200	2.00	180	25	155	1.125	.078	1.281

- NOTES:**
1. Current Rating: 1 amp, max
 2. L and Q measurements made between leads 'a' and 'd'—LF2W series only.
 3. Operating Temperature: -55°C to +125°C
 4. Temperature Coefficient: (approx.) ± 10 ppm/°C
 5. Tolerance: (unless otherwise specified) .XX±.02; .XXX±.005



Models	L ± 10% (μH)	Q min	at Freq. (MHz)	SRF min (MHz)	B ± .031	K ± .031
JFD-LF3P005	0.05	160	160	900	.484	.969
JFD-LF3P006	0.06	150	150	770	.359	.797
JFD-LF3P007	0.07	170	130	760	.547	1.016
JFD-LF3P008	0.08	150	120	700	.453	.906
JFD-LF3P009	0.09	170	120	710	.656	1.125
JFD-LF3P010	0.10	170	100	690	.859	1.344
JFD-LF3P012	0.12	160	100	600	.672	1.125
JFD-LF3P014	0.14	160	90	590	.813	1.266
JFD-LF3P016	0.16	160	80	530	.906	1.359
JFD-LF3P018	0.18	150	80	500	.609	1.031
JFD-LF3P020	0.20	170	70	480	.719	1.156
JFD-LF3P025	0.25	170	70	380	.906	1.344
JFD-LF3P030	0.30	125	70	370	.625	1.062
JFD-LF3P035	0.35	125	60	360	.641	1.078
JFD-LF3P040	0.40	125	50	340	.703	1.141
JFD-LF3P045	0.45	125	50	310	.719	1.156
JFD-LF3P050	0.50	125	50	300	.906	1.344
JFD-LF3P060	0.60	125	50	280	.969	1.406
JFD-LF3P070	0.70	125	50	270	1.062	1.500
JFD-LF3P080	0.80	125	40	250	1.031	1.453
JFD-LF3P090	0.90	125	40	210	1.125	1.547
JFD-LF3P100	1.00	125	35	200	1.125	1.547

LF4W Series



Models	L ± 10% (μH)	Q min	at Freq. (MHz)	SRF min (MHz)	B ± .031	K ± .031
JFD-LF4W005	0.05	160	160	900	.859	1.000
JFD-LF4W006	0.06	150	150	850	.563	.719
JFD-LF4W007	0.07	150	130	840	.453	.594
JFD-LF4W008	0.08	160	120	800	.672	.828
JFD-LF4W009	0.09	170	120	790	.906	1.062
JFD-LF4W010	0.10	160	100	700	.469	.609
JFD-LF4W012	0.12	150	100	680	.594	.750
JFD-LF4W014	0.14	170	90	620	.688	.828
JFD-LF4W016	0.16	160	80	580	.859	1.000
JFD-LF4W018	0.18	160	80	540	.719	.859
JFD-LF4W020	0.20	160	70	540	.875	1.016
JFD-LF4W025	0.25	160	70	460	1.047	1.203
JFD-LF4W030	0.30	160	70	420	.969	1.125
JFD-LF4W035	0.35	150	60	390	.859	1.000
JFD-LF4W040	0.40	150	50	370	.859	1.016
JFD-LF4W045	0.45	150	50	350	1.047	1.203
JFD-LF4W050	0.50	140	50	330	.938	1.078
JFD-LF4W060	0.60	130	50	300	.938	1.078
JFD-LF4W070	0.70	150	50	280	1.156	1.297
JFD-LF4W080	0.80	125	40	250	1.141	1.281
JFD-LF4W090	0.90	125	40	230	.969	1.109
JFD-LF4W100	1.00	125	35	210	1.047	1.188

- NOTES:**
1. Current Rating: 1 amp, max
 2. L and Q measurements made between leads 'a' and 'd'—LF4W series only.
 3. Operating Temperature: -55°C to +125°C
 4. Temperature Coefficient: (approx.) ±10 ppm/°C
 5. Tolerance: (unless otherwise specified) .XX±.02; .XXX±.005

Sprague-Goodman Electronics, Inc.

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