

# MODEL LPTJ3-2

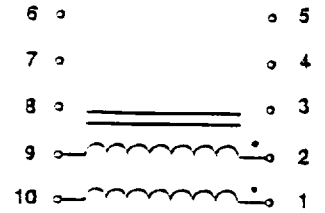
## Toroidal Inductor

### Surface Mount

### High Current



Bifilar Winding Data



### PARALLEL CONNECTED

Model Number	Inductance at 0 DC current (uH)	Tolerance	Nominal DCR (ohms)	Rated Current (Amps)	Nominal Ind @ 0 DC (uH)	Inductance Shift with DC Current ①							
						10%		20%		30%		40%	
						DC Current (Amps)	Min Ind (uH)	DC Current (Amps)	Min Ind (uH)	DC Current (Amps)	Min Ind (uH)	DC Current (Amps)	Min Ind (uH)
LPTJ3-2-1.2	1.2	=20%	0.0020	15.0	1.19	5.50	1.91	3.38	0.81	2.59	1.71	6.50	1.61
LPTJ3-2-1.5	1.5	=20%	0.0025	4.0	1.52	4.71	1.24	2.92	1.10	0.98	1.36	4.14	1.82
LPTJ3-2-1.2	1.2	=20%	1.0030	73.0	1.11	4.13	1.52	3.68	1.44	1.52	1.28	2.38	1.38
LPTJ3-2-1.7	1.7	=20%	1.0035	2.3	1.57	3.57	2.34	3.32	1.82	3.46	1.59	11.00	1.28
LPTJ3-2-3.0	3.0	=20%	0.0040	15.0	1.30	3.30	2.52	5.23	2.24	7.52	1.98	3.90	1.58
LPTJ3-2-3.9	3.9	=20%	0.0045	10.0	1.99	3.00	3.08	4.85	2.72	5.92	2.28	3.00	2.04
LPTJ3-2-4.7	4.7	=20%	0.0050	9.0	1.75	2.75	3.84	4.44	3.23	5.35	2.33	8.25	2.42
LPTJ3-2-5.6	5.6	=20%	0.0055	9.8	1.58	2.54	4.27	4.10	3.79	5.86	2.32	7.52	2.84
LPTJ3-2-6.8	6.8	=20%	0.0060	3.5	2.47	2.38	4.95	3.81	4.40	5.44	3.95	7.07	3.30
LPTJ3-2-8.2	8.2	=20%	0.0065	8.0	7.43	2.20	5.68	3.55	5.05	5.08	4.42	6.80	3.79
LPTJ3-2-10	10	=20%	0.0070	7.0	9.54	1.94	7.30	3.14	5.49	4.48	5.57	5.82	4.86
LPTJ3-2-12	12	=20%	0.0085	7.0	11.91	1.74	9.11	2.91	6.10	4.01	7.09	5.21	6.08
LPTJ3-2-15	15	=20%	0.010	5.5	14.50	1.57	11.13	2.54	6.90	3.63	6.66	4.71	7.42
LPTJ3-2-18	18	=20%	0.012	5.0	17.46	1.43	13.25	2.32	11.87	3.31	10.29	4.30	8.90
LPTJ3-2-22	22	=20%	0.016	5.5	22.20	1.27	17.07	2.05	15.17	2.93	13.27	3.81	11.28
LPTJ3-2-27	27	=20%	0.022	5.0	27.75	1.14	21.23	1.84	18.87	2.53	16.51	3.41	14.15
LPTJ3-2-33	33	=20%	0.028	4.5	31.71	1.03	24.28	1.72	21.56	2.46	18.67	3.19	16.17
LPTJ3-2-39	39	=20%	0.029	4.0	38.19	0.97	29.18	1.57	25.94	2.24	22.70	2.91	19.46
LPTJ3-2-47	47	=20%	0.037	3.5	45.18	0.89	34.95	1.44	30.72	2.06	26.88	2.68	23.04
LPTJ3-2-56	56	=20%	0.040	3.0	55.47	0.80	42.44	1.30	37.72	1.86	33.01	2.41	28.29
LPTJ3-2-68	68	=20%	0.053	2.5	66.83	0.73	51.32	1.18	45.44	1.59	39.75	2.20	34.08
LPTJ3-2-82	82	=20%	0.060	2.0	79.23	0.67	60.67	1.09	53.88	1.55	47.14	2.02	40.41
LPTJ3-2-100	100	=20%	0.068	1.9	95.23	0.61	73.65	0.99	65.44	1.41	57.25	1.83	49.08
LPTJ3-2-120	120	=20%	0.090	1.8	118.80	0.55	92.95	0.89	80.78	1.27	70.59	1.65	60.59
LPTJ3-2-150	150	=20%	0.105	1.7	148.14	0.49	113.52	0.80	100.73	1.14	88.14	1.48	75.56
LPTJ3-2-180	180	=20%	0.137	1.8	180.71	0.45	141.24	0.75	122.98	1.03	107.52	1.34	92.16
LPTJ3-2-220	220	=20%	0.160	1.5	221.89	0.40	167.90	0.65	150.80	0.93	132.03	1.21	113.18
LPTJ3-2-270	270	=20%	0.210	1.4	287.30	0.37	204.48	0.59	181.75	0.85	159.04	1.10	136.32
LPTJ3-2-330	330	=20%	0.240	1.3	330.00	0.33	252.45	0.53	222.00	0.76	196.25	0.99	168.30
LPTJ3-2-390	390	=20%	0.312	1.2	392.07	0.30	299.94	0.48	265.61	0.70	233.28	0.91	199.96
LPTJ3-2-470	470	=20%	0.390	1.1	467.31	0.28	357.49	0.45	347.77	0.64	278.05	0.83	238.33
LPTJ3-2-560	560	=20%	0.470	1.0	557.70	0.25	428.64	0.41	375.23	0.59	331.83	0.76	284.43

① The DC Current values listed are typical values that drop the nominal inductance by the percent listed.

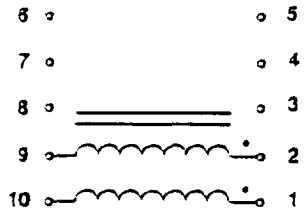
# MODEL LPTJ3-2

## Toroidal Inductor

### Surface Mount

### High Current

Bifilar Winding Data



### SERIES CONNECTED

Model Number	Inductance at 0 DC current (uH)	Tolerance	Nominal DCR (Ohms)	Rated Current (Amps)	Nominal Ind @ 0 DC (uH)	Inductance Shift with DC Current ①							
						10%		20%		30%		40%	
						DC Current (Amps)	Min Ind (uH)	DC Current (Amps)	Min Ind (uH)	DC Current (Amps)	Min Ind (uH)	DC Current (Amps)	Min Ind (uH)
LPTJ3-2-1.2	4.8	±20%	0.006	10.0	4.75	2.75	3.64	4.44	3.23	6.25	2.83	8.25	2.42
LPTJ3-2-1.5	9.0	±20%	0.005	9.5	3.47	2.26	4.95	3.81	4.40	5.44	3.85	7.07	3.30
LPTJ3-2-2.2	8.8	±20%	0.003	9.0	3.45	2.06	6.46	3.33	5.74	4.76	5.03	6.19	4.31
LPTJ3-2-2.7	10.8	±20%	0.002	3.6	0.69	1.33	3.18	2.98	7.27	4.23	5.26	5.90	5.45
LPTJ3-2-3.3	13.2	±20%	0.008	3.3	13.20	1.65	10.10	2.97	3.98	3.81	7.95	4.95	5.73
LPTJ3-2-3.9	15.6	±20%	0.009	7.9	15.37	1.90	12.22	2.42	10.66	3.46	9.50	4.90	8.15
LPTJ3-2-4.7	18.8	±20%	0.009	7.5	19.01	1.38	14.54	2.22	12.93	3.17	11.31	4.13	9.89
LPTJ3-2-5.6	22.4	±20%	0.019	7.3	22.31	1.27	17.07	2.05	15.17	2.93	13.27	3.81	11.28
LPTJ3-2-6.8	27.2	±20%	0.011	7.1	27.87	1.18	19.79	1.90	17.59	2.72	15.29	3.54	13.19
LPTJ3-2-8.2	32.8	±20%	0.012	5.7	33.79	1.03	25.85	1.67	22.96	2.38	20.11	3.09	17.23
LPTJ3-2-10	40.0	±20%	0.013	5.0	38.15	0.97	29.18	1.57	25.34	2.24	22.70	2.91	19.46
LPTJ3-2-12	48.0	±20%	0.018	5.0	47.85	0.87	36.45	1.40	32.40	2.00	28.25	2.51	24.20
LPTJ3-2-15	60.0	±20%	0.020	5.9	58.23	0.78	44.53	1.27	39.58	1.81	34.64	2.36	29.69
LPTJ3-2-18	72.0	±20%	0.021	5.6	69.83	0.72	53.42	1.16	47.48	1.68	41.55	2.15	35.61
LPTJ3-2-22	88.0	±20%	0.030	4.6	89.23	0.63	68.26	1.03	60.68	1.46	53.09	1.90	45.51
LPTJ3-2-27	108.0	±20%	0.042	4.4	109.01	0.57	84.92	0.92	75.49	1.31	68.05	1.71	56.62
LPTJ3-2-33	132.0	±20%	0.043	3.8	128.85	0.50	97.04	0.86	86.26	1.23	75.48	1.60	64.69
LPTJ3-2-39	156.0	±20%	0.047	3.7	152.53	0.45	116.78	0.78	103.78	1.12	90.79	1.48	77.82
LPTJ3-2-47	188.0	±20%	0.065	3.0	180.71	0.45	136.24	0.72	122.88	1.03	107.52	1.34	92.16
LPTJ3-2-56	224.0	±20%	0.073	2.8	232.65	0.39	176.13	0.63	158.24	0.91	138.54	1.18	118.75
LPTJ3-2-68	272.0	±20%	0.099	2.4	267.30	0.37	206.99	0.59	181.76	0.85	159.04	1.10	136.32
LPTJ3-2-82	328.0	±20%	0.107	2.3	316.93	0.34	242.46	0.54	215.51	0.78	188.57	1.01	161.84
LPTJ3-2-100	400.0	±20%	0.118	2.2	384.91	0.31	294.42	0.51	261.74	0.71	229.02	0.92	198.31
LPTJ3-2-120	480.0	±20%	0.166	1.8	475.20	0.28	365.53	0.44	323.14	0.63	282.74	0.83	242.25
LPTJ3-2-150	600.0	±20%	0.186	1.7	592.55	0.25	453.98	0.40	402.93	0.57	352.57	0.74	302.20
LPTJ3-2-180	720.0	±20%	0.255	1.4	722.83	0.22	552.97	0.35	491.53	0.51	430.09	0.67	368.64
LPTJ3-2-220	880.0	±20%	0.282	1.3	867.57	0.20	678.96	0.33	603.55	0.46	528.10	0.60	452.86
LPTJ3-2-270	1080.0	±20%	0.391	1.1	1089.20	0.18	817.94	0.30	727.06	0.42	636.17	0.55	546.29
LPTJ3-2-330	1320.0	±20%	0.417	1.0	1320.00	0.17	1009.80	0.27	897.67	0.38	785.40	0.50	673.20
LPTJ3-2-390	1560.0	±20%	0.562	0.9	1568.29	0.15	1199.74	0.24	1066.44	0.35	933.13	0.45	799.83
LPTJ3-2-470	1880.0	±20%	0.614	0.8	1869.25	0.14	1429.96	0.22	1269.09	0.32	1112.20	0.42	953.32
LPTJ3-2-560	2240.0	±20%	0.853	0.7	2230.80	0.13	1708.56	0.21	1516.92	0.29	1327.33	0.38	1137.71

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