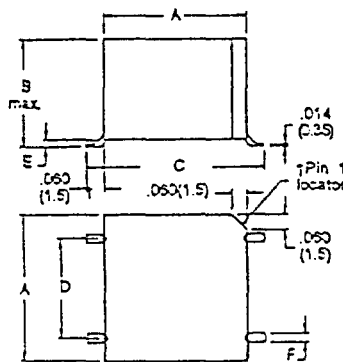


LOW PROFILE SURFACE MOUNT POWER INDUCTORS

These Surface Mount Power Inductors with high shielding efficiency are perfect for filtering in Power Supplies, Switching Regulators and DC-DC Converters.

- Five case sizes allow optimization of performance per unit size
- Surface Mount Inductors are designed to withstand the extreme temperatures encountered in reflow soldering processes.
- High shielding efficiency minimizes "cross coupling"
- Low losses at frequencies up to 100 kHz and higher.
- Designed and manufactured to the requirements of MIL-T-27, Type TF5S04ZZ (Not QPL-27 listed)

PHYSICAL DIMENSIONS



Dimensions are in inches (mm)

Pin 1 Locator Symbol. Terminals are numbered clockwise from Pin 1. Pins 3 & 4 are NC (Dummies).

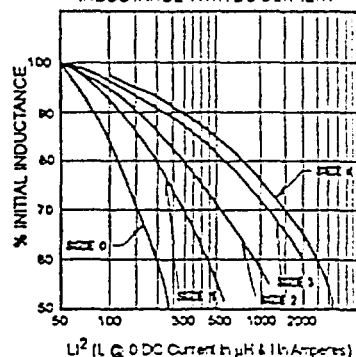
CASE DIMENSIONS

SIZE	A	B	C	D	E	F
0	0.450 (11.43)	0.190 (4.83)	0.670 (17.02)	0.300 (7.62)	0.020 (0.51)	0.025 (0.64)
1	0.450 (11.43)	0.325 (8.25)	0.670 (17.02)	0.300 (7.62)	0.020 (0.51)	0.027 (0.69)
2	0.550 (13.97)	0.380 (9.64)	0.670 (17.02)	0.400 (10.16)	0.025 (0.64)	0.037 (0.94)
3	0.650 (16.51)	0.380 (9.64)	0.770 (19.55)	0.500 (12.70)	0.025 (0.64)	0.037 (0.94)
4	0.650 (16.51)	0.455 (11.55)	0.770 (19.55)	0.500 (12.70)	0.025 (0.64)	0.037 (0.94)

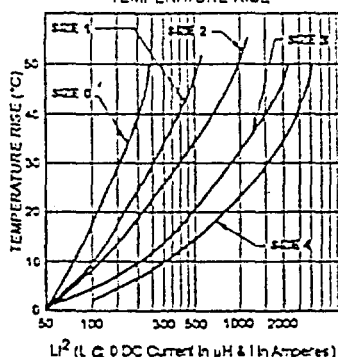
SPECIFICATIONS

- Inductance is measured at 0.1 Vrms, 10 kHz.
- The dc current, resulting in 10%, 20%, and 30% decrease in inductance, is given in the table at right.
- The DC Resistance (DCR) and Self Resonant Frequency (SRF) are listed in the table at right.
- Maximum Operating Temperature (ambient plus temperature rise) is limited to 130°C.

INDUCTANCE WITH DC CURRENT



TEMPERATURE RISE



Part Number Cross Reference on the opposite side

PART NUMBER	L ² NO DC (μH)	DC CURRENT FOR % DECREASE IN "L"			DCR (Ohms)	SRF (MHz)	SIZE
		10% (Amps)	20% (Amps)	30% (Amps)			
LP0-25	25	1.50	2.00	2.50	0.060	4.50	0
LP0-50	50	1.06	1.40	1.70	0.120	3.30	0
LP0-75	75	0.85	1.10	1.40	0.180	2.70	0
LP0-100	100	0.75	1.00	1.20	0.240	2.30	0
LP0-150	150	0.61	0.81	0.97	0.360	2.00	0
LP0-200	200	0.53	0.70	0.84	0.480	1.70	0
LP0-250	250	0.47	0.60	0.79	0.600	1.50	0
LP0-500	500	0.33	0.42	0.55	1.200	1.00	0
LP0-750	750	0.27	0.36	0.45	1.600	0.80	0
LP0-1000	1000	0.23	0.31	0.39	2.400	0.70	0
LP0-1500	1500	0.19	0.25	0.32	3.600	0.60	0
LP0-2000	2000	0.18	0.22	0.28	4.800	0.55	0
LP0-2500	2500	0.15	0.20	0.25	6.000	0.50	0
LP0-5000	5000	0.10	0.14	0.17	12.000	0.30	0
LP1-25	25	1.90	2.60	3.30	0.032	4.50	1
LP1-50	50	1.34	1.84	2.33	0.064	3.30	1
LP1-75	75	1.10	1.50	1.81	0.096	2.70	1
LP1-100	100	0.96	1.30	1.65	0.128	2.25	1
LP1-150	150	0.77	1.00	1.30	0.190	1.90	1
LP1-200	200	0.67	0.91	1.10	0.260	1.70	1
LP1-250	250	0.60	0.82	1.04	0.320	1.50	1
LP1-500	500	0.42	0.57	0.73	0.640	1.00	1
LP1-750	750	0.35	0.47	0.60	0.960	0.85	1
LP1-1000	1000	0.30	0.41	0.52	1.280	0.73	1
LP1-1500	1500	0.25	0.34	0.43	1.920	0.60	1
LP1-2000	2000	0.21	0.29	0.36	2.560	0.52	1
LP1-2500	2500	0.19	0.26	0.33	3.200	0.45	1
LP1-5000	5000	0.13	0.18	0.23	6.400	0.33	1
LP2-25	25	2.50	3.70	4.70	0.020	4.50	2
LP2-50	50	1.77	2.61	3.50	0.040	3.50	2
LP2-75	75	1.44	2.14	2.71	0.060	2.70	2
LP2-100	100	1.25	1.85	2.35	0.080	2.25	2
LP2-150	150	1.00	1.50	1.90	0.120	1.90	2
LP2-200	200	0.88	1.30	1.60	0.160	1.70	2
LP2-250	250	0.79	1.17	1.49	0.200	1.50	2
LP2-500	500	0.55	0.82	1.00	0.400	1.00	2
LP2-750	750	0.48	0.65	0.88	0.600	0.85	2
LP2-1000	1000	0.40	0.59	0.74	0.800	0.73	2
LP2-1500	1500	0.32	0.48	0.61	1.200	0.60	2
LP2-2000	2000	0.28	0.41	0.50	1.600	0.52	2
LP2-2500	2500	0.25	0.37	0.47	2.000	0.45	2
LP2-5000	5000	0.18	0.26	0.33	4.000	0.33	2
LP3-25	25	3.00	4.40	5.60	0.015	4.00	3
LP3-50	50	2.12	3.11	4.00	0.030	3.00	3
LP3-75	75	1.73	2.54	3.23	0.050	2.40	3
LP3-100	100	1.50	2.20	2.80	0.060	2.00	3
LP3-150	150	1.20	1.70	2.20	0.090	1.70	3
LP3-200	200	1.00	1.50	1.90	0.120	1.50	3
LP3-250	250	0.95	1.39	1.77	0.150	1.30	3
LP3-500	500	0.67	0.98	1.25	0.300	1.00	3
LP3-750	750	0.55	0.80	1.02	0.450	0.75	3
LP3-1000	1000	0.47	0.70	0.89	0.600	0.65	3
LP3-1500	1500	0.39	0.57	0.72	0.900	0.55	3
LP3-2000	2000	0.33	0.49	0.62	1.200	0.48	3
LP3-2500	2500	0.30	0.44	0.58	1.500	0.40	3
LP3-5000	5000	0.21	0.31	0.40	3.000	0.30	3
LP4-25	25	3.53	4.80	5.84	0.012	4.00	4
LP4-50	50	2.50	3.40	4.20	0.024	3.00	4
LP4-75	75	2.04	2.78	3.43	0.038	2.40	4
LP4-100	100	1.77	2.40	2.99	0.048	2.00	4
LP4-150	150	1.44	1.95	2.44	0.072	1.70	4
LP4-200	200	1.25	1.69	2.11	0.095	1.50	4
LP4-250	250	1.12	1.52	1.88	0.120	1.30	4
LP4-500	500	0.79	1.00	1.32	0.240	1.00	4
LP4-750	750	0.65	0.88	1.08	0.360	0.75	4
LP4-1000	1000	0.58	0.78	0.94	0.480	0.65	4
LP4-1500	1500	0.48	0.62	0.77	0.720	0.55	4
LP4-2000	2000	0.39	0.53	0.68	0.960	0.47	4
LP4-2500	2500	0.35	0.48	0.59	1.200	0.40	4
LP4-5000	5000	0.25	0.34	0.42	2.400	0.30	4

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