

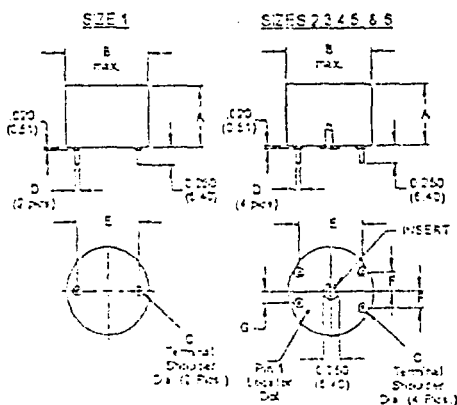
POWER INDUCTORS

These Printed Circuit "Plug-In" Power Inductors with high shielding efficiency are perfect for filtering in Power Supplies, Switching Regulators and DC-DC Converters.

- All Inductors have split windings except for size 1
- High shielding efficiency minimizes "cross coupling"
- Available in six size selections for optimized performance per unit size
- Inductors are capable of carrying large DC current transients.
- Low losses at frequencies up to 100 kHz and higher.
- Designed and manufactured to the requirements of MIL-T-27, Type TF5504ZZ (Not QPL-27 listed)

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.



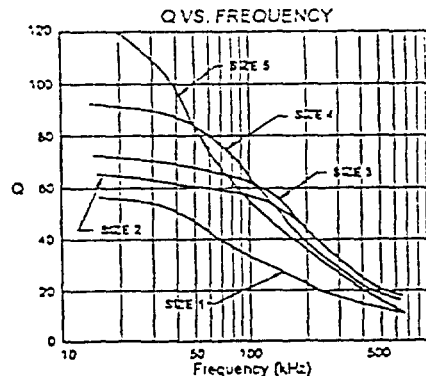
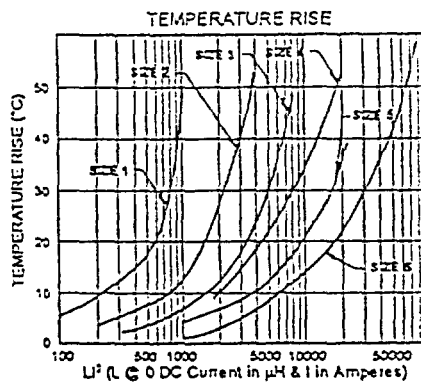
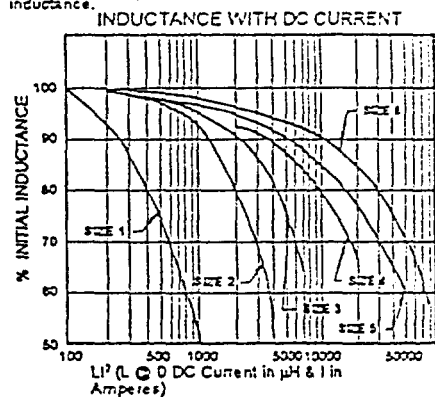
CASE DIMENSIONS

SIZE	A max.	B max.	C max.	D dia.	E max.	F max.	G max.	INSERT	TYPICAL WEIGHT (grams)
1	0.450 (11.43)	0.750 (19.05)	0.100 (2.54)	0.070 (1.78)	0.500 (12.70)				7
2	0.560 (14.22)	0.900 (22.86)	0.100 (2.54)	0.070 (1.78)	0.500 (12.70)	0.200 (5.08)	0.100 (2.54)	442 UNO 5 Type Deep	23
3	0.625 (15.88)	1.215 (30.92)	0.100 (2.54)	0.070 (1.78)	0.500 (12.70)	0.200 (5.08)	0.100 (2.54)	442 UNO 5 Type Deep	44
4	0.720 (18.29)	1.330 (33.78)	0.125 (3.18)	0.054 (1.37)	0.500 (12.70)	0.200 (5.08)	0.100 (2.54)	632 UNO 6 Type Deep	50
5	0.760 (19.30)	1.500 (38.10)	0.125 (3.18)	0.054 (1.37)	0.500 (12.70)	0.200 (5.08)	0.100 (2.54)	632 UNO 6 Type Deep	60
6	1.100 (27.94)	2.750 (70.15)	0.150 (3.81)	0.125 (3.18)	1.700 (43.18)	0.400 (10.16)	0.200 (5.08)	632 UNO 6 Type Deep	170

All inductors have split windings for versatility. They can be connected in series, parallel or individually for balanced filtering applications.

The ratings in the table at the far right are for a series-aided connection of both windings. The inductance of a parallel connection of these windings will result in 25% of the inductance at twice the rated current. The DCR will be 25% of the series connection.

Example: A parallel connection of PL2-130 will result in an inductance of 32.5 μ H with a DCR of .015 ohms. 8 Amps DC will cause a 20% decrease in inductance.



PART NUMBER	L NO DC (μ H)	DC CURRENT FOR % DECREASE IN 'L'			DCR (Ohms)	SRF (MHz)	SIZE
		10% (Amps)	20% (Amps)	30% (Amps)			
PL1-25	25	3.53	4.80	5.64	0.012	4.00	1
PL1-50	50	2.50	3.40	4.20	0.024	3.00	1
PL1-75	75	2.04	2.78	3.43	0.036	2.40	1
PL1-100	100	1.77	2.40	2.99	0.045	2.00	1
PL1-250	250	1.12	1.52	1.85	0.120	1.30	1
PL1-750	750	0.65	0.88	1.08	0.380	0.75	1
PL1-1000	1000	0.58	0.76	0.94	0.480	0.65	1
PL1-1500	1500	0.48	0.62	0.77	0.720	0.55	1
PL1-2500	2500	0.35	0.48	0.59	1.200	0.40	1
PL1-5000	5000	0.25	0.34	0.42	2.400	0.30	1
PL2-130	130	3.00	4.00	5.50	0.050	1.70	2
PL2-210	210	2.50	3.50	4.50	0.110	1.40	2
PL2-260	260	2.20	3.20	3.90	0.140	1.25	2
PL2-315	315	2.00	2.90	3.50	0.170	1.14	2
PL2-675	675	1.00	1.30	1.70	0.280	0.80	2
PL2-790	790	1.20	1.60	2.00	0.420	0.70	2
PL2-1050	1050	1.00	1.30	1.60	0.560	0.60	2
PL2-1300	1300	0.95	1.40	1.70	0.700	0.50	2
PL3-228	228	3.50	4.50	6.00	0.070	1.10	3
PL3-373	373	2.70	4.00	5.00	0.105	0.90	3
PL3-450	450	2.50	3.70	4.80	0.150	0.80	3
PL3-787	787	1.80	2.60	3.70	0.260	0.60	3
PL3-1050	1050	1.60	2.40	3.40	0.400	0.50	3
PL3-1310	1310	1.50	2.20	3.20	0.450	0.45	3
PL3-1500	1500	1.30	2.00	3.00	0.500	0.40	3
PL3-1840	1840	1.20	1.80	2.80	0.600	0.35	3
PL3-2100	2100	1.10	1.70	2.70	0.700	0.30	3
PL4-165	165	5.00	7.00	9.00	0.040	1.40	4
PL4-191	191	4.70	6.50	8.50	0.050	1.30	4
PL4-242	242	4.00	5.50	7.50	0.070	1.10	4
PL4-350	350	3.50	4.80	6.50	0.100	0.90	4
PL4-515	515	2.80	4.00	5.50	0.140	0.80	4
PL4-790	790	2.20	3.20	4.50	0.200	0.60	4
PL4-1050	1050	2.00	2.90	4.00	0.250	0.50	4
PL4-1310	1310	1.80	2.60	3.70	0.300	0.45	4
PL4-1550	1550	1.60	2.40	3.40	0.350	0.40	4
PL4-1838	1838	1.50	2.10	3.20	0.400	0.35	4
PL5-150	150	6.35	8.23	11.60	0.017	1.40	5
PL5-250	250	4.90	7.16	9.00	0.045	1.10	5
PL5-500	500	3.50	5.00	6.62	0.090	0.80	5
PL5-750	750	3.00	4.18	5.58	0.135	0.65	5
PL5-1000	1000	2.50	3.60	4.50	0.180	0.55	5
PL5-2500	2500	1.55	2.26	2.80	0.450	0.35	5
PL5-5000	5000	1.10	1.60	2.00	0.900	0.25	5
PL6-1500	1500	2.60	4.50	6.00	0.130	0.40	6
PL6-2000	2000	2.25	3.80	5.20	0.170	0.35	6
PL6-3000	3000	1.55	3.20	4.25	0.260	0.30	6
PL6-4000	4000	1.60	2.80	3.70	0.350	0.25	6
PL6-5000	5000	1.45	2.50	3.30	0.450	0.20	6
PL6-7500	7500	1.15	2.00	2.70	0.650	0.15	6
PL6-10000	10000	1.00	1.75	2.35	0.850	0.15	6

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