

# Product Specification



This product is certified to comply with the RoHS Directive 2002/95/EC.

## LPSE Series Shielded Power Inductor



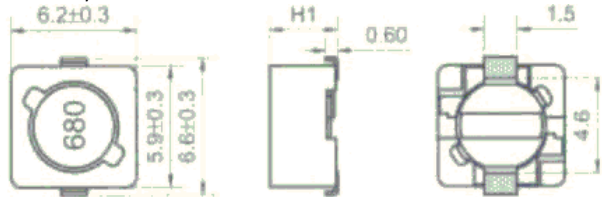
### Applications

- Power supply for VTRs
- LCD TV
- Personal Computers
- Handheld communications equipment
- DC/DC Converters, etc.

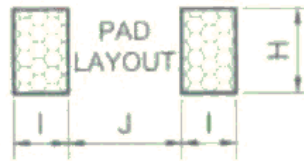
### Features

- High power, High saturation currents
- Magnetically shielded against radiation
- Directly connected electrode on ferrite core
- Highly accurate dimensions for surface mounting

LPSU62B/64B



LPSU73/74



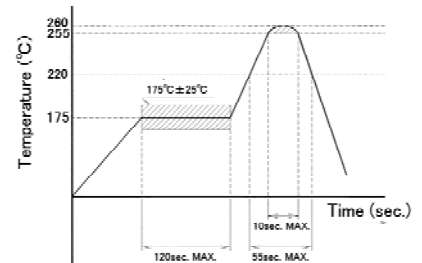
Unit: mm

### Dimensions

Codes	H1 Max	H2 Max	H3 Max.	H	I	J
LPSE62B	3.0	-	-	1.9	1.4	4.6
LPSE64B	5.0	-	-	1.9	1.4	4.6
LPSE73	-	3.4	-	2.2	1.6	4.8
LPSE74	-	4.5	-	2.2	1.6	4.8
LPSE124	-	-	4.5	5.4	2.9	7.0
LPSE125	-	-	6.0	5.4	2.9	7.0
LPSE127	-	-	8.0	5.4	2.9	7.0

Ordering Code Guide:			
Series Code	Tolerance		Inductance
LPSE62B	P: ±40%/- 20%		1R0: 1.0uH
	M±20%		100: 10.0uH
			101: 100uH
			102:1000uH

### Reflow Profile



Issue No. 1 05/01/2011

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## LPSE Series Shielded Power Inductor

Inductance Code	Inductance		LPSE62B		LPSE64B		LPSE73		LPSE74	
	L (uH)	Tolerance	DCR (Ω) max	I <sub>max</sub>	DCR (Ω) max	I <sub>max</sub>	DCR (Ω) max	I <sub>max</sub>	DCR (Ω) max	I <sub>max</sub>
1R0	1.0	M	-	-	-	-	0.016	7.97	0.020	8.00
1R5	1.5	M	-	-	-	-	0.023	5.50	0.018	7.00
2R2	2.2	M	-	-	-	-	0.027	4.50	0.028	6.00
2R9	2.9	M	0.070	1.94	-	-	-	-	-	-
3R3	3.3	M	.075	1.80	-	-	0.031	4.00	0.032	4.80
3R9	3.9	M	-	-	-	-	0.041	3.80	0.035	4.40
4R0	4.0	M	0.080	1.63	-	-	-	-	-	-
4R7	4.7	M	0.090	1.55	-	-	0.048	3.50	0.038	4.00
5R5	5.5	M	0.096	1.40	-	-	-	-	-	-
5R6	5.6	M	-	-	-	-	0.056	3.00	0.040	3.50
6R8	6.8	M	-	-	-	-	0.062	2.00	0.045	3.00
100	10	M	1.050	1.10	0.120	1.35	0.072	1.68	0.049	1.84
120	12	M	0.200	1.00	1.130	1.22	0.098	1.52	0.058	1.71
150	15	M	0.230	0.90	0.180	1.11	0.130	1.33	0.081	1.47
180	18	M	0.270	0.80	0.240	1.02	0.140	1.20	0.091	1.31
220	22	M	0.340	0.74	0.270	0.91	0.190	1.07	0.132	1.23
270	27	M	0.380	0.66	0.300	0.82	0.210	0.96	0.150	1.12
330	33	M	0.450	0.59	0.330	0.74	0.240	0.91	0.170	0.96
390	39	M	0.490	0.54	0.370	0.69	0.320	0.77	0.230	0.91
470	47	M	0.690	0.50	0.520	0.62	0.360	0.76	0.260	0.88
560	56	M	0.780	0.46	0.560	0.58	0.470	0.68	0.350	0.75
680	68	M	1.070	0.42	0.630	0.51	0.520	0.61	0.380	0.69
820	82	M	1.210	0.38	0.710	0.46	0.690	0.57	0.430	0.61
101	100	M	1.390	0.34	1.030	0.42	0.790	0.50	0.610	0.60
121	120	M	1.900	0.31	1.150	0.38	0.890	0.49	0.660	0.52
151	150	M	2.180	0.28	1.680	0.35	1.270	0.43	0.880	0.46
181	180	M	2.770	0.26	1.870	0.32	1.450	0.39	0.980	0.42
221	220	M	3.120	0.23	2.080	0.29	1.650	0.35	1.170	0.36
271	270	M	4.380	0.22	2.370	0.26	2.310	0.32	1.640	0.34
331	330	M	4.940	0.19	2.670	0.23	2.620	0.28	1.860	0.32
391	390	M	-	-	2.940	0.22	2.940	0.26	2.850	0.29
471	470	M	-	-	3.930	0.20	4.180	0.24	3.010	0.26
561	560	M	-	-	5.430	0.18	4.670	0.22	3.620	0.23
681	680	M	-	-	7.320	0.17	5.730	0.19	4.630	0.22
821	820	M	-	-	8.240	0.15	6.540	0.18	5.200	0.20
102	1000	M	-	-	9.260	0.14	9.440	0.16	6.000	0.18

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## LPSE Series Shielded Power Inductor

Inductance Code	Inductance		LPSE124		LPSE125		LPSE127	
	L (uH)	Tolerance	DCR (Ω) max	I <sub>max</sub>	DCR (Ω) max	I <sub>max</sub>	DCR (Ω) max	I <sub>max</sub>
1R2	1.2	P	-	-	-	-	0.0070	9.80
1R3	1.3	P	-	-	0.012	8.00	-	-
2R1	2.1	P	-	-	0.014	7.00	-	-
2R4	2.4	P	-	-	-	-	0.0115	8.00
3R1	3.1	P	-	-	0.017	6.00	-	-
3R5	3.5	P	-	-	-	-	0.0135	7.50
3R9	3.9	M	0.015	6.50	-	-	-	-
4R4	4.4	P	-	-	0.020	5.00	-	-
4R7	4.7	M	0.018	5.70	-	-	-	-
4R7	4.7	P	-	-	-	-	0.0158	6.80
5R8	5.8	P	-	-	0.021	4.40	-	-
6R1	6.1	P	-	-	-	-	0.0176	6.60
6R8	6.8	P	0.023	4.90	-	-	-	-
7R5	7.5	P	-	-	0.024	4.20	-	-
7R6	7.6	P	-	-	-	-	0.0200	5.90
100	10	M	0.028	4.50	0.025	4.00	0.0216	5.40
120	12	M	0.038	4.00	0.027	3.50	0.0243	4.90
150	15	M	0.050	3.20	0.030	3.30	0.0270	4.50
180	18	M	0.057	3.10	0.034	3.00	0.0392	3.90
220	22	M	0.066	2.90	0.036	2.80	0.0432	3.60
270	27	M	0.080	2.80	0.051	2.30	0.0459	3.40
330	33	M	0.097	2.70	0.057	2.10	0.0648	3.00
390	39	M	0.132	2.10	0.068	2.00	0.0729	2.75
470	47	M	0.150	1.90	0.075	1.80	0.1000	2.50
560	56	M	0.190	1.80	0.110	1.70	0.1100	2.35
680	68	M	0.220	1.50	0.120	1.50	0.1400	2.10
820	82	M	0.260	1.30	0.140	1.40	0.1600	1.95
101	100	M	0.308	1.20	0.160	1.30	0.2200	1.70
121	120	M	0.380	1.10	0.170	1.10	0.2500	1.60
151	150	M	0.530	0.95	0.230	1.00	0.2800	1.42
181	180	M	0.620	0.85	0.290	0.90	0.3500	1.30
221	220	M	0.700	0.80	0.400	0.80	0.3900	1.16
271	270	M	0.876	0.60	0.460	0.75	0.5600	1.06
331	330	M	0.990	0.50	0.510	0.68	0.6400	0.95
391	390	M	-	-	0.690	0.65	0.7000	0.88
471	470	M	-	-	0.770	0.58	0.9800	0.79
561	560	M	-	-	0.860	0.54	1.0700	0.73
681	680	M	-	-	1.200	0.48	1.4600	0.67
821	820	M	-	-	1.340	0.43	1.6400	0.60
102	1000	M	-	-	1.530	0.40	1.8200	0.55

All tests performed at 1kHz, 0.25V

Rated current I<sub>max</sub> is defined as the smallest of either: the current when the inductance decreases to 75% of its initial value, or the current when the temperature of the coil increases to +40°C