

Product Specification



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

LPUF Series Unshielded Power Inductor

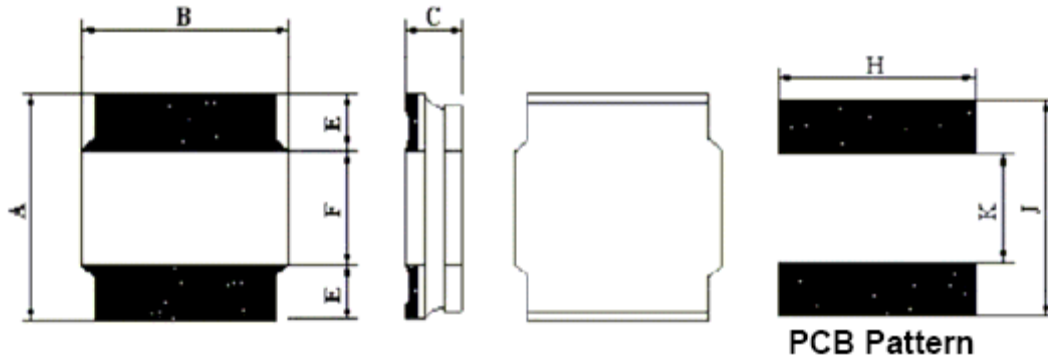


Applications

- LCD Display
- PDA
- DC/DC Converters, etc.

Features

- Small size, low height
- Suitable for large currents
- Operating temperature range -40 ~+85°C
- Robust construction – shock proof



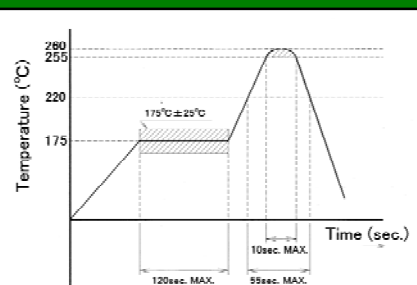
Dimensions (mm)

Codes	A	B	C Max.	E	F	H	J	K
LPUF0312	3.0±0.2	3.0±0.2	1.25	0.9	2.0	3.2	3.7	1.2
LPUF0412	4.0±0.2	4.0±0.2	1.20	1.0	2.0	3.2	4.6	1.6
LPUF0612	6.0±0.2	6.0±0.2	1.20	0.9	1.6	4.2	6.7	3.5
LPUF0840	8.0±0.2	8.0±0.2	4.00	1.6	1.6	8.7	8.7	4.3

Ordering Code Guide:

Series Code	Tolerance	Inductance
LPUF0312	N: ±30%	1R0: 1.0uH
	M±20%	100: 10.0uH
		101: 100uH

Reflow Profile



Issue No. 1 21/02/11

Product Specification



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



LPUF Series Unshielded Power Inductor

Code	Inductance		Test Condition	LPUF0312		LPUF0412		LPUF0612		LPUF0840	
	L (uH)	Tolerance		DCR (Ω) max	IDC (A)	DCR (Ω) max	IDC (A)	DCR (Ω) max	IDC (A)	DCR (Ω) max	IDC (A)
1R0	0.47	N	100kHz, 0.25V	0.104	1.500	0.067	1.95	-	-	-	-
1R5	1.5	N	100kHz, 0.25V	0.183	1.360	0.085	1.49	-	-	-	-
1R8	1.8	N	100kHz, 0.25V	0.197	1.200	-	-	-	-	-	-
2R2	2.2	N	100kHz, 0.25V	0.200	1.100	0.140	1.40	-	-	0.017	7.33
3R3	3.3	M,N	100kHz, 0.25V	0.320	0.910	0.210	1.15	-	-	0.022	5.93
4R7	4.7	M,N	100kHz, 0.25V	0.380	0.770	0.290	0.91	-	-	0.023	4.70
6R8	6.8	M,N	100kHz, 0.25V	0.640	0.670	0.440	0.77	-	-	0.033	4.00
100	10	M,N	1kHz, 0.25V	0.950	0.540	0.620	0.66	0.288	0.75	0.044	3.40
120	12	M,N	1kHz, 0.25V	-	-	-	-	0.360	0.60	0.055	3.05
150	15	M,N	1kHz, 0.25V	1.068	0.440	0.930	0.54	0.396	0.58	0.065	2.70
220	22	M,N	1kHz, 0.25V	0.730	0.375	1.250	0.46	0.660	0.48	0.086	2.20
330	33	M,N	1kHz, 0.25V	2.570	0.310	1.840	0.36	0.952	0.39	0.130	1.90
470	47	M,N	1kHz, 0.25V	3.720	0.250	2.660	0.31	1.356	0.32	0.200	1.50
680	68	M,N	1kHz, 0.25V	4.470	0.240	3.700	0.24	1.620	0.22	0.300	1.20
101	100	M,N	1kHz, 0.25V	5.070	0.195	-	-	2.626	0.19	0.380	1.00
221	220	M,N	1kHz, 0.25V	-	-	12.35	0.16	-	-	-	-
821	820	M,N	1kHz, 0.25V	-	-	60.00	0.05	-	-	-	-

Rated DC Current: The current when the inductance reduces to 30% less than its initial value.

Product Specification



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



LPUF Series Unshielded Power Inductor

Code	Inductance		Test Condition	LPSL0502		LPSL0503		LPSL0603	
	L (uH)	Tolerance		DCR (Ω) max	IDC (A)	DCR (Ω) max	IDC (A)	DCR (Ω) max	IDC (A)
R47	0.47	N	100kHz, 0.25V	0.015	2.33	0.010	4.82	-	-
1R0	1.0	N	100kHz, 0.25V	0.024	2.27	0.015	4.00	0.014	4.70
1R1	1.1	N	100kHz, 0.25V	-	-	0.020	3.87	-	-
1R2	1.2	N	100kHz, 0.25V	0.044	2.15	0.022	3.80	0.016	3.90
1R5	1.5	N	100kHz, 0.25V	-	-	-	-	0.018	3.52
1R8	1.8	N	100kHz, 0.25V	-	-	-	-	0.019	3.25
2R0	2.0	N	100kHz, 0.25V	0.046	1.90	0.027	2.92	0.022	2.95
2R2	2.2	N	100kHz, 0.25V	0.059	1.63	0.029	2.41	0.022	2.95
2R4	2.4	N	100kHz, 0.25V	0.062	1.50	0.034	2.36	0.024	2.75
2R7	2.7	N	100kHz, 0.25V	-	-	-	-	0.027	2.55
3R3	3.3	N	100kHz, 0.25V	0.073	1.34	0.040	1.95	0.030	2.45
3R9	3.9	N	100kHz, 0.25V	0.081	1.20	-	-	0.034	2.35
4R1	4.1	N	100kHz, 0.25V	0.087	1.14	0.045	1.87	-	-
4R7	4.7	N	100kHz, 0.25V	-	-	0.052	1.60	0.042	2.25
5R6	5.6	N	100kHz, 0.25V	-	-	-	-	0.048	2.05
6R8	6.8	N	100kHz, 0.25V	0.105	0.95	0.068	1.51	0.054	1.85
8R2	8.2	N	100kHz, 0.25V	0.139	0.90	0.084	1.38	0.058	1.65
100	10	M	1kHz, 0.25V	0.150	0.76	0.090	1.33	0.065	1.45
120	12	M	1kHz, 0.25V	-	-	0.120	1.06	0.082	1.35
150	15	M	1kHz, 0.25V	0.210	0.63	0.142	1.05	0.096	1.25
180	18	M	1kHz, 0.25V	-	-	0.192	0.90	0.110	1.15
220	22	M	1kHz, 0.25V	0.275	0.56	0.208	0.86	0.140	0.98
270	27	M	1kHz, 0.25V	0.452	0.48	0.222	0.75	0.170	0.90
330	33	M	1kHz, 0.25V	0.455	0.44	0.257	0.72	0.210	0.80
390	39	M	1kHz, 0.25V	-	-	0.320	0.64	0.240	0.72
470	47	M	1kHz, 0.25V	0.730	0.35	0.352	0.62	0.280	0.70
560	56	M	1kHz, 0.25V	-	-	0.459	0.53	0.340	0.66
680	68	M	1kHz, 0.25V	0.935	0.30	0.525	0.51	0.410	0.58
820	82	M	1kHz, 0.25V	1.300	0.27	0.770	0.48	0.490	0.52
101	100	M	1kHz, 0.25V	1.500	0.23	0.801	0.43	0.550	0.46
121	120	M	1kHz, 0.25V	1.910	0.22	0.850	0.34	0.700	0.42
151	150	M	1kHz, 0.25V	2.680	0.21	1.100	0.26	0.780	0.36
181	180	M	1kHz, 0.25V	3.040	0.20	1.190	0.24	0.960	0.34
221	220	M	1kHz, 0.25V	3.520	0.195	1.530	0.20	1.080	0.32
271	270	M	1kHz, 0.25V	4.380	0.193	-	-	1.360	0.28
331	330	M	1kHz, 0.25V	5.560	0.190	2.030	0.19	1.820	0.24
391	390	M	1kHz, 0.25V	-	-	3.000	0.16	2.050	0.22
471	470	M	1kHz, 0.25V	7.820	0.180	3.500	0.15	2.580	0.20
561	560	M	1kHz, 0.25V	-	-	4.080	0.14	3.160	0.18
681	680	M	1kHz, 0.25V	-	-	-	-	4.040	0.16
821	820	M	1kHz, 0.25V	15.00	0.120	-	-	4.900	0.14
102	1000	M	1kHz, 0.25V	-	-	-	-	6.000	0.13
122	1200	M	1kHz, 0.25V	-	-	8.500	0.070	7.600	0.12
152	1500	M	1kHz, 0.25V	-	-	10.00	0.065	9.440	0.10
182	1800	M	1kHz, 0.25V	-	-	13.15	0.062	11.70	0.098
222	2200	M	1kHz, 0.25V	-	-	19.00	0.050	13.40	0.095
252	2500	M	1kHz, 0.25V	-	-	20.00	0.045	-	-
272	2700	M	1kHz, 0.25V	-	-	-	-	17.30	0.086
332	3300	M	1kHz, 0.25V	-	-	-	-	22.10	0.078
392	3900	M	1kHz, 0.25V	89.88	0.042	-	-	24.40	0.074
472	4700	M	1kHz, 0.25V	101.12	0.038	-	-	30.10	0.072
562	5600	M	1kHz, 0.25V	115.00	0.036	-	-	33.50	0.066
682	6800	M	1kHz, 0.25V	152.00	0.030	-	-	44.40	0.062
822	8200	M	1kHz, 0.25V	-	-	-	-	50.70	0.048
103	10000	M	1kHz, 0.25V	-	-	-	-	65.50	0.044
123	12000	M	1kHz, 0.25V	-	-	-	-	74.20	0.038
153	15000	M	1kHz, 0.25V	-	-	-	-	92.30	0.034
183	18000	M	1kHz, 0.25V	-	-	-	-	104.1	0.030
223	22000	M	1kHz, 0.25V	-	-	-	-	154.5	0.028
273	27000	M	1kHz, 0.25V	-	-	-	-	175.4	0.026

Issue No. 1 21/02/11

Magna Frequency Components, Magna House, Dales Manor Business Park, Sawston, Cambridge, CB22 3TJ

Tel: +44 1223 834800

Fax: +44 1223 834600

Email: sales@magnafrequency.com

Product Specification



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



LPUF Series Unshielded Power Inductor

Issue No. 1 21/02/11

Magna Frequency Components, Magna House, Dales Manor Business Park, Sawston, Cambridge, CB22 3TJ
Tel: +44 1223 834800 Fax: +44 1223 834600 Email: sales@magnafrequency.com