

Product Specification



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

LPSK Series Shielded Power Inductor

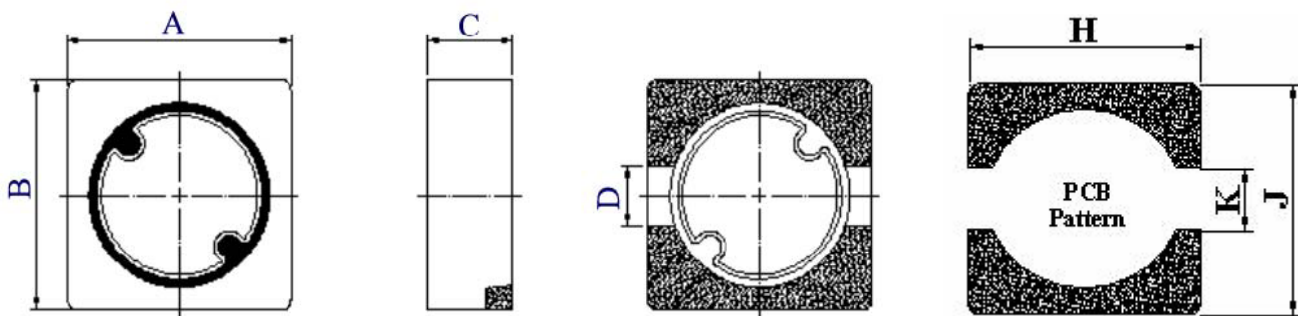


Applications

- Notebook PCs
- LCD TV
- Portable communication equipment
- DC/DC Converters, etc.

Features

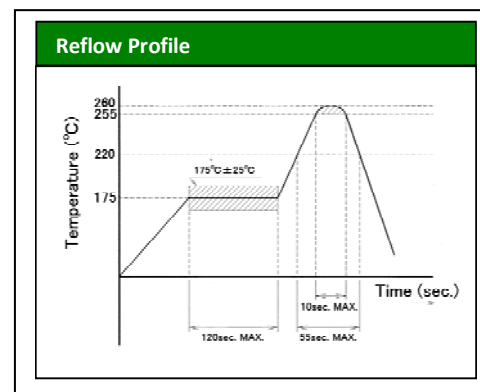
- Small size, low height
- Magnetically shielded
- Suitable for large currents



Dimensions

Codes	A (mm)	B (mm)	C (mm) Max.	D (mm)	H (mm)	J (mm)	K (mm)
LPSK4010	3.8±0.3	3.8±0.3	1.25	1.2	4.4	4.4	1.1
LPSK4020	3.8±0.3	3.8±0.3	2.00	1.2	4.4	4.4	1.1
LPSK4030	3.8±0.3	3.8±0.3	3.00	1.2	4.4	4.4	1.1
LPSK5010	5.0±0.3	5.0±0.3	1.20	2.0	5.9	5.9	1.9
LPSK5020	5.0±0.3	5.0±0.3	2.00	2.0	5.9	5.9	1.9
LPSK5030	5.0±0.3	5.0±0.3	3.00	2.0	5.9	5.9	1.9
LPSK6915	6.9±0.3	6.9±0.3	1.50	2.5	7.3	7.3	2.0
LPSK6919	6.9±0.3	6.9±0.3	1.90	2.5	7.3	7.3	2.0
LPSK7040	7.3±0.3	7.3±0.3	4.30	1.8	8.0	8.0	1.6
LPSK1040	10.0±0.3	10.0±0.3	1.50	2.5	10.6	10.6	2.3
LPSK1015	10.0±0.3	10.0±0.3	4.00	2.5	10.6	10.6	2.3
LPSK1062	10.0±0.3	10.0±0.3	6.70	2.5	10.6	10.6	2.3

Ordering Code Guide:		
Series Code	Tolerance	Inductance
LPSK4010	N: ±30%	1R0: 1.0uH
	M±20%	100: 10.0uH
		101: 100uH
		102:1000uH



Product Specification



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



MAGNA Frequency Components

LPSK Series Shielded Power Inductor

Inductance Code	Inductance		LPSK4010		LPSK4020		LPSK4030	
	L (uH)	Tolerance	DCR (Ω) max	I _{max} (A)	DCR (Ω) max	I _{max} (A)	DCR (Ω) max	I _{max} (A)
0R47	0.47	N	-	-	0.017	1.84	-	-
1R0	1.0	M,N	0.060	1.60	0.030	1.80	-	-
1R2	1.2	M,N	0.065	1.40	0.043	1.70	-	-
1R5	1.5	M,N	0.077	1.24	0.052	1.60	0.015	1.90
1R8	1.8	M,N	0.093	1.22	-	-	0.018	1.76
2R2	2.2	M,N	0.125	1.20	0.058	1.50	0.020	1.67
2R4	2.4	M,N	0.139	0.98	-	-	0.022	1.65
2R5	2.5	M,N	-	-	0.059	1.40	-	-
2R7	2.7	M,N	-	-	-	-	0.028	1.45
3R3	3.3	M,N	0.187	0.89	0.064	1.30	0.032	1.44
3R5	3.5	M,N	0.21	0.85	0.127	1.30	-	-
3R6	3.6	M,N	-	-	-	-	0.035	1.43
3R9	3.9	M,N	0.22	0.78	0.135	1.12	0.037	1.32
4R3	4.3	M,N	-	-	-	-	0.043	1.00
4R7	4.7	M,N	0.24	0.71	0.146	1.10	0.045	0.97
5R1	5.1	M,N	-	-	-	-	0.046	0.94
5R6	5.6	M,N	0.32	0.62	0.176	0.95	-	-
6R2	6.2	M,N	-	-	0.220	0.91	-	-
6R8	6.8	M,N	0.35	0.57	0.238	0.90	0.065	0.87
7R5	7.5	M,N	-	-	-	-	0.079	0.82
8R2	8.2	M,N	0.47	0.52	0.272	0.80	0.071	0.77
100	10	M	0.57	0.47	0.299	0.70	0.105	0.70
120	12	M	0.75	0.43	-	-	0.119	0.67
150	15	M	0.81	0.38	0.472	0.61	0.140	0.54
180	18	M	1.06	0.35	-	-	0.175	0.50
220	22	M	1.15	0.32	0.592	0.52	0.201	0.48
270	27	M	1.67	0.29	0.630	0.44	0.227	0.40
330	33	M	1.84	0.28	1.075	0.43	0.287	0.35
390	39	M	2.30	0.25	-	-	0.341	0.33
470	47	M	2.63	0.22	1.309	0.34	0.430	0.32
560	56	M	2.86	0.20	-	-	0.471	0.30
680	68	M	3.94	0.18	2.613	0.25	0.532	0.27
820	82	M	4.90	0.16	2.950	0.20	0.675	0.23
101	100	M	5.74	0.14	3.255	0.19	0.850	0.21
121	120	M	7.31	0.13	-	-	1.11	0.20
151	150	M	9.08	0.12	3.550	0.12	1.23	0.17
181	180	M	9.50	0.11	-	-	1.56	0.15
221	220	M	-	-	4.900	0.09	1.80	0.14
271	270	M	-	-	-	-	2.20	0.13
331	330	M	-	-	7.280	0.08	2.64	0.12
471	470	M	-	-	-	-	3.82	0.10
561	560	M	-	-	-	-	4.62	0.09
681	680	M	-	-	13.37	0.07	-	-
821	820	M	-	-	-	-	-	-
102	1000	M	-	-	19.55	0.065	-	-
152	1500	M	-	-	36.15	0.038	-	-
182	1800	M	-	-	57.62	0.036	-	-
222	2200	M	-	-	84.43	0.035	-	-

Product Specification



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



LPSK Series Shielded Power Inductor

Inductance Code	Inductance		LPSK5010		LPSK5020		LPSK5030	
	L (uH)	Tolerance	DCR (Ω) max	I _{max} (A)	DCR (Ω) max	I _{max} (A)	DCR (Ω) max	I _{max} (A)
1R0	1.0	M,N	-	-	0.030	2.70	0.015	4.00
1R1	1.1	M,N	-	-	-	-	0.020	3.87
1R2	1.2	M,N	0.050	1.77	0.044	2.15	0.022	3.80
1R5	1.5	M,N	0.069	1.71	-	-	-	-
2R2	2.2	M,N	0.100	1.44	0.046	1.90	0.027	2.92
3R3	3.3	M,N	0.140	1.14	0.062	1.50	0.034	2.36
3R5	3.5	M,N	0.150	1.10	0.073	1.34	-	-
4R1	4.1	M,N	-	-	0.081	1.20	-	-
4R7	4.7	M,N	0.190	0.95	0.087	1.14	0.045	1.87
5R6	5.6	M,N	0.193	0.90	0.093	1.00	0.052	1.60
6R2	6.2	M,N	0.200	0.84	-	-	-	-
6R8	6.8	M,N	0.200	0.80	0.105	0.95	0.068	1.51
8R2	8.2	M,N	0.300	0.75	0.139	0.90	0.084	1.38
100	10	M	0.350	0.66	0.150	0.76	0.090	1.33
120	12	M	0.430	0.62	0.170	0.66	-	-
150	15	M	0.440	0.59	0.210	0.63	0.142	1.05
180	18	M	0.750	0.57	-	-	-	-
220	22	M	0.820	0.56	0.275	0.56	0.208	0.86
270	27	M	-	-	-	-	0.222	0.75
330	33	M	1.16	0.43	0.455	0.44	0.257	0.72
390	39	M	-	-	0.540	0.38	-	-
470	47	M	1.59	0.34	0.730	0.35	0.352	0.62
560	56	M	-	-	0.800	0.32	-	-
680	68	M	2.14	0.29	0.935	0.30	0.525	0.51
820	82	M	2.72	0.25	-	-	-	-
101	100	M	3.55	0.22	1.50	0.23	0.801	0.43
121	120	M	4.89	0.20	1.91	0.22	0.850	0.34
151	150	M	5.20	0.19	2.68	0.21	1.10	0.26
181	180	M	7.55	0.17	3.05	0.20	1.19	0.24
221	220	M	7.76	0.15	3.52	0.195	1.53	0.20
271	270	M	10.13	0.145	4.38	0.193	-	-
331	390	M	11.23	0.140	5.56	0.190	2.03	0.19
391	330	M	-	-	-	-	3.00	0.16
471	470	M	16.86	0.098	7.82	0.18	3.50	0.15
561	560	M	22.78	0.097	9.79	0.17	4.45	0.14
681	680	M	24.87	0.085	-	-	-	-
821	820	M	28.09	0.077	15.0	0.12	-	-
102	1000	M	45.07	0.067	-	-	-	-
122	1200	M	-	-	-	-	8.50	0.070
152	1500	M	-	-	-	-	10.00	0.065
182	1800	M	-	-	-	-	13.15	0.062
222	2200	M	-	-	-	-	19.00	0.050
252	2200	M	-	-	-	-	20.00	0.045
392	3900	M	-	-	89.88	0.042	-	-
472	4700	M	-	-	101.1	0.038	-	-
562	5600	M	-	-	115.0	0.036	-	-
682	6800	M	-	-	152.0	0.030	-	-
103	10000	M	-	-	201.2	0.026	-	-

Issue No. 2 30/03/11

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.



MAGNA Frequency Components

LPSK Series Shielded Power Inductor

Inductance Code	Inductance		LPSK6915		LPSK6919		LPSK7040	
	L (uH)	Tolerance	DCR (Ω) max	I _{max} (A)	DCR (Ω) max	I _{max} (A)	DCR (Ω) max	I _{max} (A)
	0R36	0.36	N	-	-	-	-	0.005
0R56	0.56	N	-	-	-	-	0.0056	8.50
0R80	1.80	N	-	-	-	-	0.009	5.80
1R0	1.0	M,N	0.050	3.28	0.035	3.52	0.040	2.10
1R2	1.2	M,N	-	-	-	-	0.040	2.10
1R5	1.5	M,N	0.067	2.53	-	-	0.040	2.10
1R8	1.8	M,N	-	-	0.052	3.05	0.040	2.09
2R0	2.0	M,N	0.085	2.06	-	-	-	-
2R2	2.2	M,N	-	-	0.071	2.50	0.041	2.08
2R5	2.5	M,N	-	-	-	-	0.041	2.08
2R7	2.7	M,N	0.11	1.87	-	-	-	-
3R0	3.3	M,N	-	-	0.086	2.15	-	-
3R3	3.3	M,N	0.13	1.58	-	-	0.041	2.07
3R9	3.9	M,N	0.16	1.46	0.11	2.01	-	-
4R3	4.3	M,N	-	-	-	-	0.041	2.06
4R7	4.7	M,N	0.20	1.30	0.13	1.95	0.042	2.05
5R6	5.6	M,N	0.23	1.22	0.15	1.82	0.043	2.04
6R8	6.8	M,N	0.28	1.16	0.17	1.67	0.044	2.04
8R2	8.2	M,N	0.31	1.13	0.19	1.52	-	-
100	10	M	0.33	1.03	0.24	1.39	0.049	2.00
120	12	M	0.46	0.87	0.29	1.22	0.058	1.90
150	15	M	0.53	0.80	0.38	1.09	0.081	1.60
180	18	M	0.62	0.73	0.44	1.03	0.091	1.48
220	22	M	0.70	0.71	0.49	0.95	0.110	1.32
270	27	M	0.91	0.65	0.64	0.84	0.150	1.26
330	33	M	1.15	0.57	0.74	0.80	0.170	1.10

Issue No. 2 30/03/11

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.



LPSK Series Shielded Power Inductor

Inductance Code	Inductance		LPSK1015		LPSK1040		LPSK1062	
	L (uH)	Tolerance	DCR (Ω) max	I _{max} (A)	DCR (Ω) max	I _{max} (A)	DCR (Ω) max	I _{max} (A)
0R56	0.56	N	-	-	0.0058	12.6	0.0060	10.18
0R80	1.80	N	-	-	0.0059	12.0	-	-
1R0	1.0	M,N	0.038	4.10	0.0080	10.3	0.007	9.52
1R5	1.5	M,N	-	-	0.0081	10.0	0.0075	9.50
1R6	1.6	M,N	-	-	-	-	0.0075	9.50
1R8	1.8	M,N	0.047	3.50	-	-	0.0082	6.30
2R2	2.2	M,N	-	-	0.0100	8.00	0.0085	5.82
2R4	2.4	M,N	-	-	-	-	0.0087	5.71
2R5	2.5	M,N	-	-	0.0105	7.50	-	-
2R7	2.7	M,N	0.059	3.40	0.0118	7.00	-	-
3R3	3.3	M,N	0.063	3.00	0.012	6.60	0.0095	5.18
3R8	3.8	M,N	-	-	0.013	6.00	0.0098	5.09
4R3	4.3	M,N	-	-	-	-	0.011	5.08
4R7	4.7	M,N	0.086	2.60	0.022	5.70	0.015	5.00
5R2	5.2	M,N	-	-	0.022	5.50	0.016	3.25
5R6	5.6	M,N	0.098	2.20	0.024	5.15	0.016	3.20
6R8	6.8	M,N	0.11	2.10	0.026	4.90	0.017	2.80
7R0	7.0	M,N	-	-	0.027	4.80	-	-
8R2	8.2	M,N	0.13	1.90	0.032	4.45	-	-
100	10	M	0.16	1.80	0.035	4.40	0.028	2.15
120	12	M	0.19	1.48	0.040	3.65	-	-
150	15	M	0.25	1.25	0.050	3.60	-	-
180	18	M	0.29	1.22	0.060	2.95	-	-
220	22	M	0.30	1.20	0.073	2.90	-	-
250	25	M	-	-	0.080	2.60	-	-
270	27	M	0.40	0.93	-	-	-	-
330	33	M	0.46	0.89	0.093	2.30	-	-