

INDUCTORS

FOR POWER LINE SMD

Low Profile Shielded Power Inductor

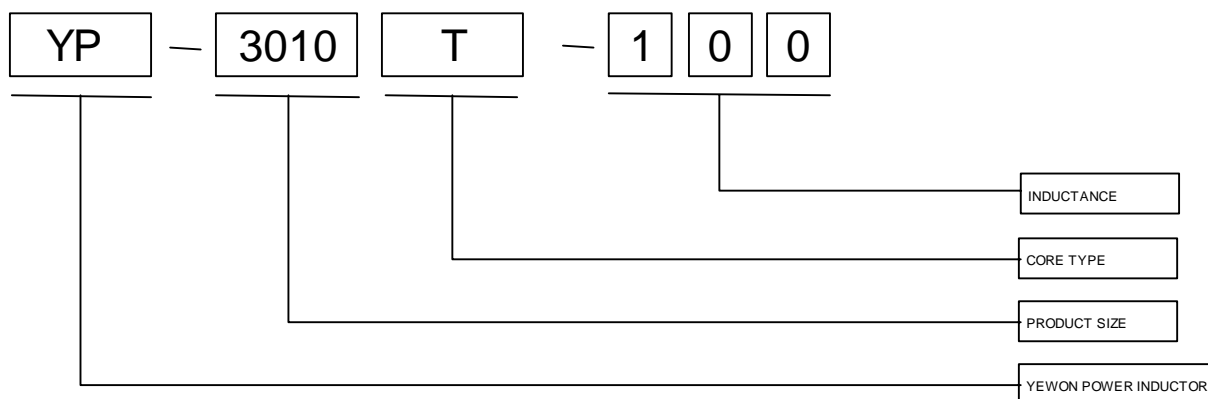
FEATURES

- .Shielded Construction with low DCR
- .Inductance ratings to 330uH
- .Widely applications,highly recommend to use as DC/DC converter
- .Operating Temperature range from -40°C to $+125^{\circ}\text{C}$ (Including Self-heating)
- . 260°C reflow peak temperature qualified

APPLICATIONS

- .DC-DC converter / Power applications

PART NUMBER SYSTEM



DIMENSION CODE (L*W*H) (mm)

252010 (2.5X2.0X1.0)	252012 (2.5X2.0X1.2)
3010 (3.0X3.0X1.0)	3012 (3.0X3.0X1.2)
3015 (3.0X3.0X1.5)	4010 (4.0X4.0X1.0)
4012 (4.0X4.0X1.2)	4018 (4.0X4.0X1.8)
4020 (4.0X4.0X2.0)	4026 (4.0X4.0X2.6)
4030 (4.0X4.0X3.0)	5012 (5.0X5.0X1.2)
5020 (5.0X5.0X2.0)	5040 (5.0X5.0X4.0)
6020 (6.0X6.0X2.0)	6028 (6.0X6.0X2.8)
6045 (6.0X6.0X4.5)	8040 (8.0X8.0X4.0)

⦿ DRAWINGS AND DIMENSIONS

Fig.A
25XX SERIES

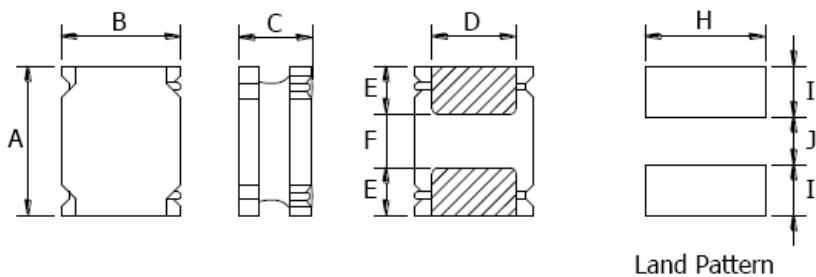


Fig.B
30XX,40XX,60XX,80XX
SERIES

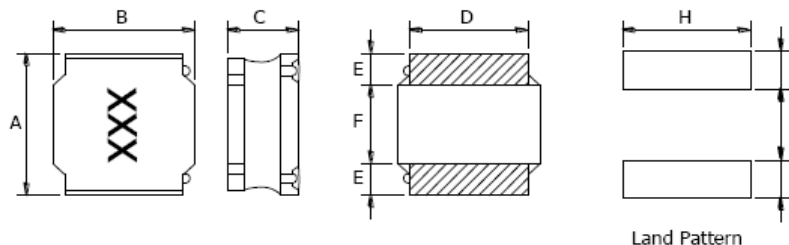
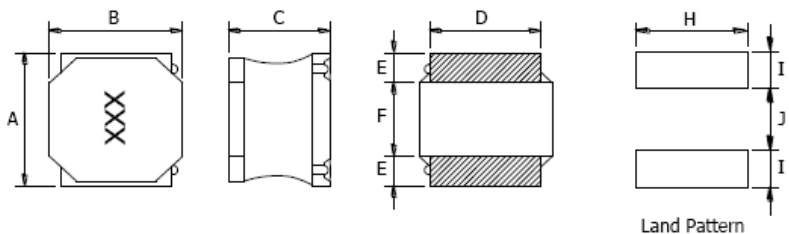
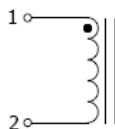


Fig.C
50XX SERIES



Schematic



XXX=Inductance value

Case Size	Dimension (mm)									Fig.
	A	B	Cmax	D	E	F	Href.	Iref.	Jref.	
252010	2.5±0.1	2.0±0.1	1.0	1.5±0.2	0.8±0.2	0.8±0.2	2.0	0.85	0.8	A
252012	2.5±0.1	2.0±0.1	1.2	1.5±0.2	0.8±0.2	0.8±0.2	2.0	0.85	0.8	A
3010	3.0±0.2	3.0±0.2	1.0	2.5±0.2	0.75±0.2	1.5±0.2	2.7	0.8	1.5	B
3012	3.0±0.2	3.0±0.2	1.2	2.5±0.2	0.75±0.2	1.5±0.2	2.7	0.8	1.5	B
3015	3.0±0.2	3.0±0.2	1.5	2.5±0.2	0.75±0.2	1.5±0.2	2.7	0.8	1.5	B
4010	4.0±0.2	4.0±0.2	1.0	3.3±0.2	0.95±0.2	2.1±0.2	3.7	1.1	1.9	B
4012	4.0±0.2	4.0±0.2	1.2	3.3±0.2	0.95±0.2	2.1±0.2	3.7	1.1	1.9	B
4018	4.0±0.2	4.0±0.2	1.8	3.3±0.2	0.95±0.2	2.1±0.2	3.7	1.1	1.9	B
4020	4.0±0.2	4.0±0.2	2.0	3.3±0.2	0.95±0.2	2.1±0.2	3.7	1.1	1.9	B
4026	4.0±0.2	4.0±0.2	2.6	3.3±0.2	0.95±0.2	2.1±0.2	3.7	1.1	1.9	B
4030	4.0±0.2	4.0±0.2	3.0	3.3±0.2	0.95±0.2	2.1±0.2	3.7	1.1	1.9	B
5012	5.0±0.2	5.0±0.2	1.2	4.0±0.2	1.25±0.2	2.5±0.2	4.4	1.5	2.1	C
5020	5.0±0.2	5.0±0.2	2.0	4.0±0.2	1.25±0.2	2.5±0.2	4.2	1.4	2.3	C
5040	5.0±0.2	5.0±0.2	4.0	4.0±0.2	1.25±0.2	2.5±0.2	4.2	1.4	2.3	C
6020	6.0±0.3	6.0±0.3	2.0	4.9±0.2	1.55±0.2	2.9±0.2	5.7	1.7	2.8	B
6028	6.0±0.3	6.0±0.3	2.8	4.9±0.2	1.55±0.2	2.9±0.2	5.7	1.7	2.8	B
6045	6.0±0.3	6.0±0.3	4.5	4.9±0.2	1.55±0.2	2.9±0.2	5.7	1.7	2.8	B
8040	8.0±0.3	8.0±0.3	4.2	6.3±0.2	2.0±0.3	4.0±0.2	7.5	2.2	3.8	B

⊙ ELECTRICAL CHARACTERISTICS

Part No	Inductance uH	Tolerance	DCR (Ω)		I _{rms} (A)	I _{sat} (A)	Drawing
			Typ.	Max			
252010-R47	0.47	± 30%	0.047	0.056	2.35	3.35	A
R68	0.68		0.062	0.074	2.00	2.75	
1R0	1.0		0.090	0.108	1.65	2.20	
1R5	1.5		0.152	0.182	1.30	2.10	
2R2	2.2		0.174	0.209	1.20	1.60	
3R3	3.3	± 20%	0.273	0.328	0.90	1.30	
4R7	4.7		0.469	0.563	0.70	1.15	
6R8	6.8		0.747	0.896	0.59	0.92	
100	10		0.910	1.092	0.50	0.78	
252012-R47	0.47	± 30%	0.047	0.056	2.15	4.27	
R68	0.68		0.057	0.068	1.95	3.68	
1R0	1.0		0.069	0.083	1.93	2.90	
1R2	1.2		0.099	0.119	1.46	2.67	
1R5	1.5	± 20%	0.113	0.136	1.40	2.51	
2R2	2.2		0.166	0.199	1.15	2.07	
2R7	2.7		0.184	0.221	1.09	1.92	
3R3	3.3		0.203	0.244	1.04	1.80	
3R6	3.6		0.268	0.322	0.90	1.64	
4R3	4.3		0.290	0.348	0.87	1.53	
4R7	4.7		0.290	0.348	0.84	1.25	
5R1	5.1		0.385	0.462	0.75	1.37	
5R6	5.6		0.414	0.497	0.73	1.25	
6R2	6.2		0.417	0.500	0.73	1.16	
6R8	6.8		0.447	0.536	0.69	1.09	
7R5	7.5		0.470	0.564	0.68	1.09	
8R2	8.2		0.506	0.607	0.65	1.10	
9R1	9.1		0.531	0.637	0.62	1.02	
100	10		0.531	0.637	0.62	0.88	
120	12		0.827	0.992	0.51	0.88	
150	15		1.224	1.469	0.42	0.77	
220	22		1.520	1.824	0.38	0.59	
3010-1R0	1.0	± 30%	0.065	0.085	1.45	1.40	
1R5	1.5		0.080	0.104	1.30	1.27	
2R2	2.2		0.110	0.143	1.09	1.15	
2R7	2.7		0.130	0.169	1.02	1.00	
3R3	3.3		0.145	0.189	0.96	0.97	
3R6	3.6	± 20%	0.165	0.215	0.90	0.95	
4R7	4.7		0.225	0.293	0.77	0.75	
6R8	6.8		0.305	0.397	0.66	0.55	
100	10		0.400	0.520	0.58	0.55	
120	12		0.505	0.657	0.52	0.43	
150	15		0.610	0.793	0.47	0.42	
220	22		0.930	1.209	0.38	0.35	
270	27		1.080	1.404	0.35	0.30	
330	33		1.550	2.015	0.30	0.29	
390	39		1.750	2.275	0.28	0.28	
430	43		1.800	2.340	0.27	0.23	
470	47		1.950	2.535	0.26	0.22	
510	51		2.200	2.860	0.25	0.21	
560	56		2.320	3.016	0.24	0.21	

Low Profile Shielded Power Inductor

Part No	Inductance uH	Tolerance	DCR (Ω)		I _{rms} (A)	I _{sat} (A)	Drawing
			Typ.	Max			
3012-R82	0.82	± 30%	0.030	0.039	2.47	2.05	B
1R0	1.0		0.040	0.052	2.20	1.87	
1R2	1.2		0.045	0.059	2.01	2.22	
1R5	1.5		0.045	0.059	2.01	1.62	
1R8	1.8		0.063	0.082	1.65	1.30	
2R2	2.2		0.075	0.098	1.55	1.20	
2R4	2.4		0.068	0.088	1.60	1.15	
2R7	2.7		0.085	0.111	1.48	1.14	
3R3	3.3	± 20%	0.100	0.130	1.36	1.05	
3R9	3.9		0.145	0.189	1.24	1.00	
4R7	4.7		0.120	0.156	1.24	0.90	
6R8	6.8		0.190	0.247	0.98	0.75	
100	10		0.265	0.345	0.83	0.60	
120	12		0.345	0.449	0.73	0.48	
150	15		0.360	0.468	0.71	0.45	
180	18		0.545	0.709	0.58	0.43	
220	22		0.645	0.839	0.53	0.42	
270	27		0.870	1.131	0.47	0.36	
330	33		0.875	1.138	0.46	0.35	
360	36		0.950	1.235	0.44	0.34	
390	39		1.330	1.729	0.37	0.30	
470	47		1.450	1.885	0.35	0.27	
680	68		1.670	2.171	0.33	0.24	
820	82		2.540	3.302	0.27	0.17	
101	100		2.860	3.718	0.25	0.21	
3015-1R0	1.0	± 30%	0.030	0.039	2.35	2.32	B
1R2	1.2		0.040	0.052	1.95	2.21	
1R5	1.5		0.050	0.065	1.70	2.30	
1R8	1.8		0.050	0.065	1.70	1.75	
2R2	2.2		0.060	0.078	1.60	1.60	
2R7	2.7		0.075	0.098	1.43	1.52	
3R3	3.3	± 20%	0.080	0.104	1.36	1.32	
3R6	3.6		0.105	0.137	1.20	1.28	
4R3	4.3		0.115	0.150	1.14	1.20	
4R7	4.7		0.125	0.163	1.09	1.10	
5R1	5.1		0.133	0.173	1.05	1.00	
6R2	6.2		0.195	0.254	0.86	1.00	
6R8	6.8		0.200	0.260	0.85	0.85	
100	10		0.250	0.325	0.77	0.72	
120	12		0.320	0.416	0.68	0.70	
150	15		0.350	0.455	0.65	0.66	
180	18		0.430	0.559	0.59	0.56	
220	22		0.460	0.598	0.57	0.52	
270	27		0.730	0.949	0.45	0.48	
330	33		0.820	1.066	0.43	0.44	
390	39		0.995	1.294	0.39	0.41	
430	43		1.060	1.378	0.37	0.37	
470	47		1.250	1.625	0.35	0.35	
560	56		1.280	1.664	0.34	0.33	
620	62		1.610	2.093	0.30	0.30	
680	68		2.700	3.510	0.23	0.28	



Low Profile Shielded Power Inductor

Part No	Inductance uH	Tolerance	DCR (Ω)		I _{rms} (A)	I _{sat} (A)	Drawing
			Typ.	Max			
4010-1R0	1.0	± 30%	0.056	0.067	1.90	2.00	B
1R5	1.5		0.070	0.084	1.70	1.68	
2R2	2.2	± 20%	0.085	0.102	1.50	1.20	
3R3	3.3		0.100	0.120	1.40	1.10	
4R7	4.7		0.140	0.168	1.20	0.95	
6R8	6.8		0.200	0.240	1.00	0.80	
100	10		0.300	0.360	0.75	0.62	
150	15		0.430	0.516	0.60	0.54	
220	22		0.570	0.684	0.50	0.45	
4012-R82	0.82	± 30%	0.050	0.065	1.65	3.02	B
1R0	1.0		0.050	0.065	1.65	2.61	
1R5	1.5		0.065	0.085	1.46	2.10	
1R8	1.8		0.080	0.104	1.32	2.12	
2R2	2.2		0.080	0.104	1.32	1.76	
2R7	2.7		0.090	0.117	1.25	1.90	
3R3	3.3		0.110	0.143	1.12	1.72	
3R6	3.6		0.110	0.143	1.12	1.20	
4R3	4.3		0.140	0.182	1.00	1.58	
4R7	4.7		0.125	0.163	1.05	1.15	
5R1	5.1		0.155	0.202	0.95	1.55	
5R6	5.6		0.140	0.182	1.00	1.00	
6R8	6.8	± 20%	0.198	0.257	0.84	0.85	
100	10		0.265	0.345	0.77	0.80	
120	12		0.290	0.377	0.70	0.66	
150	15		0.340	0.442	0.64	0.56	
180	18		0.470	0.611	0.55	0.55	
220	22		0.587	0.763	0.49	0.46	
270	27		0.720	0.936	0.45	0.50	
330	33		0.810	1.053	0.42	0.42	
360	36		0.900	1.170	0.40	0.40	
390	39		1.100	1.430	0.37	0.55	
470	47		1.100	1.430	0.37	0.35	
560	56		1.250	1.625	0.33	0.33	
680	68		1.950	2.535	0.27	0.38	
820	82		2.140	2.782	0.26	0.28	
101	100		2.210	2.873	0.25	0.25	
4018-1R0	1.0	± 30%	0.025	0.033	2.00	4.80	B
1R5	1.5		0.030	0.039	1.80	3.35	
2R2	2.2	± 20%	0.045	0.059	1.65	2.70	
3R3	3.3		0.070	0.091	1.23	2.45	
4R7	4.7		0.090	0.117	1.20	1.70	
6R8	6.8		0.110	0.143	1.06	1.45	
100	10		0.180	0.234	0.84	1.30	
150	15		0.250	0.325	0.65	0.94	
220	22		0.360	0.468	0.59	0.80	
330	33		0.530	0.689	0.49	0.56	
470	47		0.650	0.845	0.42	0.57	
680	68		1.000	1.300	0.32	0.47	
101	100		1.750	2.275	0.25	0.40	
151	150		2.500	3.250	0.22	0.31	
221	220		4.000	5.200	0.17	0.27	

Low Profile Shielded Power Inductor

Part No	Inductance uH	Tolerance	DCR (Ω)		I _{rms} (A)	I _{sat} (A)	Drawing
			Typ.	Max			
4020-1R0	1.0	±30%	0.029	0.038	2.15	4.78	B
1R2	1.2		0.029	0.038	2.15	5.10	
1R5	1.5		0.035	0.046	1.98	4.45	
2R2	2.2		0.040	0.052	1.85	3.40	
3R3	3.3	±20%	0.070	0.091	1.40	3.20	
3R6	3.6		0.055	0.072	1.54	2.80	
4R7	4.7		0.075	0.098	1.34	2.35	
5R1	5.1		0.085	0.111	1.27	2.30	
5R6	5.6		0.090	0.117	1.22	2.20	
6R2	6.2		0.115	0.150	1.08	2.15	
6R8	6.8		0.125	0.163	1.04	2.20	
7R5	7.5		0.115	0.150	1.08	1.85	
8R2	8.2		0.125	0.163	1.04	1.75	
100	10		0.165	0.215	0.90	1.60	
120	12		0.175	0.228	0.88	1.50	
150	15		0.230	0.299	0.77	1.35	
220	22		0.350	0.455	0.62	1.05	
270	27		0.545	0.709	0.50	1.02	
330	33		0.550	0.715	0.49	0.85	
390	39		0.650	0.845	0.46	0.82	
430	43		0.660	0.858	0.45	0.77	
470	47		0.710	0.923	0.44	0.74	
510	51		0.750	0.975	0.42	0.70	
560	56		0.800	1.040	0.41	0.66	
620	62		0.900	1.170	0.39	0.65	
680	68		1.060	1.378	0.36	0.61	
750	75		1.160	1.508	0.35	0.70	
820	82		1.170	1.521	0.34	0.50	
101	100		1.550	2.015	0.31	0.48	
4026-1R2	1.2	±30%	0.030	0.039	2.30	3.10	B
1R5	1.5		0.030	0.039	2.30	2.40	
2R2	2.2	±20%	0.040	0.052	2.00	2.10	
3R3	3.3		0.050	0.065	1.70	1.80	
4R7	4.7		0.055	0.072	1.60	1.45	
6R8	6.8		0.065	0.085	1.50	1.30	
100	10		0.085	0.111	1.30	1.00	
150	15		0.110	0.143	1.10	0.90	
220	22		0.165	0.215	0.90	0.60	
330	33		0.270	0.351	0.70	0.55	
470	47		0.300	0.390	0.65	0.40	
4030-R91	0.91	±30%	0.013	0.017	4.00	6.25	B
1R2	1.2		0.015	0.020	3.82	5.80	
1R5	1.5		0.020	0.026	3.34	4.84	
1R8	1.8		0.028	0.036	3.00	4.80	
2R2	2.2		0.030	0.039	2.95	4.40	
3R3	3.3	±20%	0.040	0.052	2.40	3.30	
4R3	4.3		0.055	0.072	2.10	2.95	
4R7	4.7		0.060	0.078	2.00	2.90	
5R6	5.6		0.065	0.085	1.95	2.60	
6R8	6.8		0.090	0.117	1.60	2.75	
7R5	7.5		0.085	0.111	1.65	2.20	

Low Profile Shielded Power Inductor

Part No	Inductance uH	Tolerance	DCR (Ω)		I _{rms} (A)	I _{sat} (A)	Drawing
			Typ.	Max			
4030-8R2	8.2	±20%	0.090	0.117	1.60	2.10	B
100	10		0.100	0.130	1.50	1.95	
120	12		0.135	0.176	1.30	1.70	
150	15		0.190	0.247	1.11	1.65	
180	18		0.200	0.260	1.10	1.40	
220	22		0.225	0.293	1.00	1.30	
330	33		0.330	0.429	0.84	1.10	
360	36		0.335	0.436	0.83	1.05	
390	39		0.435	0.566	0.73	1.03	
470	47		0.445	0.579	0.72	0.95	
510	51		0.470	0.611	0.70	0.90	
560	56		0.555	0.722	0.65	0.85	
620	62		0.585	0.761	0.63	0.80	
680	68		0.868	1.128	0.52	0.72	
750	75		1.020	1.326	0.48	0.70	
820	82		1.060	1.378	0.47	0.66	
910	91		1.100	1.430	0.46	0.65	
101	100		1.150	1.495	0.45	0.60	
121	120		1.350	1.755	0.42	0.55	
5012-1R0	1.0	±30%	0.057	0.074	2.40	4.40	C
1R5	1.5		0.072	0.094	2.25	3.70	
2R2	2.2		0.090	0.117	2.00	3.10	
3R3	3.3		0.126	0.164	1.70	2.45	
4R7	4.7		0.164	0.213	1.50	2.20	
6R8	6.8	±20%	0.245	0.319	1.25	1.75	
100	10		0.344	0.447	1.05	1.40	
150	15		0.436	0.567	0.92	1.25	
5020-R47	0.47	±30%	0.013	0.017	4.60	6.15	
R75	0.75		0.017	0.022	4.00	5.50	
1R0	1.0		0.020	0.026	3.80	4.10	
1R2	1.2		0.022	0.029	3.55	4.50	
1R5	1.5		0.026	0.034	3.20	4.10	
2R2	2.2		0.032	0.042	2.90	3.20	
2R7	2.7		0.038	0.049	2.70	2.90	
3R0	3.0		0.038	0.049	2.70	2.55	
3R3	3.3		0.043	0.056	2.50	2.55	
3R6	3.6		0.043	0.056	2.50	2.80	
3R9	3.9		0.043	0.056	2.50	2.30	
4R3	4.3	±20%	0.057	0.074	2.20	2.50	
4R7	4.7		0.057	0.074	2.20	2.50	
5R1	5.1		0.064	0.083	2.05	2.25	
5R6	5.6		0.064	0.083	2.05	2.30	
6R8	6.8		0.083	0.108	1.80	2.05	
7R5	7.5		0.090	0.117	1.75	1.85	
8R2	8.2		0.098	0.127	1.65	1.85	
9R1	9.1		0.110	0.143	1.55	1.70	
100	10		0.110	0.143	1.55	1.70	
120	12		0.140	0.182	1.40	1.50	
150	15		0.165	0.215	1.25	1.35	
180	18		0.200	0.260	1.15	1.25	
220	22		0.226	0.294	1.10	1.15	

Low Profile Shielded Power Inductor

Part No	Inductance uH	Tolerance	DCR (Ω)		I _{rms} (A)	I _{sat} (A)	Drawing
			Typ.	Max			
5040-1R0	1.0	±30%	0.012	0.016	4.90	7.35	C
1R5	1.5		0.015	0.020	4.30	6.30	
2R2	2.2		0.019	0.025	3.80	4.90	
2R7	2.7		0.022	0.029	3.60	4.30	
3R3	3.3		0.024	0.031	3.40	3.95	
3R9	3.9		0.027	0.035	3.20	3.55	
4R7	4.7		0.030	0.039	3.00	3.50	
6R8	6.8	±20%	0.043	0.056	2.50	2.90	
100	10		0.064	0.083	2.10	2.35	
150	15		0.086	0.112	2.00	2.00	
220	22		0.129	0.168	1.50	1.60	
330	33		0.188	0.244	1.20	1.30	
470	47		0.272	0.354	1.00	1.10	
680	68		0.400	0.520	0.80	0.90	
101	100		0.560	0.728	0.70	0.75	
471	470		2.800	3.600	0.38	0.40	
6020-R50	0.5	±30%	0.014	0.018	3.30	4.50	B
R68	0.68		0.017	0.022	3.80	6.55	
R82	0.82		0.017	0.022	3.80	5.30	
1R0	1.0		0.020	0.026	3.50	4.15	
1R2	1.2		0.022	0.029	3.20	5.90	
1R5	1.5		0.022	0.029	3.20	4.25	
1R8	1.8		0.028	0.036	2.75	4.85	
2R0	2.0		0.035	0.046	2.60	4.10	
2R2	2.2		0.028	0.036	3.75	3.75	
2R7	2.7		0.035	0.046	2.60	3.90	
3R3	3.3		0.035	0.046	2.60	3.15	
3R9	3.9		0.049	0.064	2.10	3.25	
4R3	4.3		0.049	0.064	2.10	2.70	
4R7	4.7		0.058	0.075	2.00	3.00	
5R6	5.6		0.058	0.075	1.90	2.40	
6R2	6.2		0.079	0.103	1.80	2.30	
6R8	6.8		0.079	0.103	1.80	2.20	
8R2	8.2		0.105	0.137	1.40	2.10	
100	10	±20%	0.105	0.137	1.40	1.75	
120	12		0.120	0.156	1.30	1.45	
150	15		0.145	0.189	1.20	1.20	
180	18		0.180	0.234	1.08	1.20	
220	22		0.204	0.265	1.00	1.05	
6028-1R0	1.0	±30%	0.010	0.013	5.20	5.75	
1R5	1.5		0.013	0.017	4.58	6.00	
2R2	2.2		0.020	0.026	3.75	5.10	
2R7	2.7		0.020	0.026	3.75	3.80	
3R3	3.3		0.025	0.033	3.48	4.15	
4R7	4.7		0.030	0.039	3.08	3.00	
5R1	5.1		0.043	0.056	2.60	3.20	
6R2	6.2	±20%	0.047	0.061	2.40	3.05	
6R8	6.8		0.047	0.061	2.40	2.60	
8R2	8.2		0.055	0.072	2.25	2.30	
9R1	9.1		0.074	0.096	2.15	2.55	
100	10		0.072	0.094	1.95	2.04	
120	12		0.080	0.104	1.85	1.80	

Low Profile Shielded Power Inductor

Part No	Inductance uH	Tolerance	DCR (Ω)		I _{rms} (A)	I _{sat} (A)	Drawing
			Typ.	Max			
6028-150	15	±20%	0.125	0.163	1.45	1.75	B
180	18		0.120	0.156	1.45	1.52	
220	22		0.140	0.182	1.40	1.45	
270	27		0.155	0.202	1.32	1.50	
330	33		0.185	0.241	1.22	1.35	
360	36		0.215	0.280	1.13	1.25	
390	39		0.225	0.293	1.10	1.25	
470	47		0.315	0.410	1.06	1.15	
680	68		0.360	0.468	0.86	0.90	
750	75		0.410	0.533	0.81	0.90	
820	82		0.500	0.650	0.70	0.80	
101	100		0.500	0.650	0.70	0.65	
6045-R82	0.82	±30%	0.008	0.010	5.90	10.40	
1R0	1.0		0.011	0.014	5.40	9.85	
1R2	1.2		0.010	0.013	5.14	8.80	
1R5	1.5		0.012	0.016	4.95	8.35	
1R8	1.8		0.012	0.016	4.95	7.60	
2R2	2.2		0.014	0.018	4.60	6.75	
2R3	2.3		0.021	0.027	3.50	6.00	
2R7	2.7		0.015	0.020	4.30	5.75	
3R0	3.0		0.020	0.026	3.80	5.60	
3R3	3.3		0.021	0.027	3.70	5.90	
3R6	3.6		0.021	0.027	3.70	5.25	
4R3	4.3	±20%	0.023	0.030	3.50	4.45	
4R7	4.7		0.026	0.034	3.30	4.97	
5R1	5.1		0.026	0.034	3.30	4.40	
5R6	5.6		0.029	0.038	3.15	4.15	
6R2	6.2		0.031	0.040	3.00	4.43	
6R8	6.8		0.031	0.040	3.00	3.90	
7R5	7.5		0.034	0.044	2.90	3.50	
8R2	8.2		0.043	0.056	2.60	3.90	
9R1	9.1		0.043	0.056	2.60	3.35	
100	10		0.048	0.062	2.45	3.20	
120	12		0.058	0.075	2.20	2.80	
150	15		0.068	0.088	2.05	2.50	
180	18		0.081	0.105	1.85	2.20	
220	22		0.089	0.116	1.80	2.05	
270	27		0.102	0.133	1.65	1.90	
300	30		0.132	0.172	1.50	1.70	
330	33		0.137	0.178	1.45	1.65	
360	36		0.173	0.225	1.40	1.62	
390	39		0.180	0.234	1.25	1.50	
430	43		0.200	0.260	1.20	1.63	
470	47		0.200	0.260	1.20	1.40	
510	51		0.207	0.269	1.15	1.35	
560	56		0.221	0.287	1.10	1.30	
620	62		0.235	0.306	1.10	1.25	
680	68		0.289	0.376	1.00	1.20	
750	75		0.305	0.397	0.95	1.15	
820	82		0.341	0.443	0.90	1.05	
910	91		0.359	0.467	0.85	1.00	



Low Profile Shielded Power Inductor

Part No	Inductance uH	Tolerance	DCR (Ω)		I _{rms} (A)	I _{sat} (A)	Drawing
			Typ.	Max			
6045-101	100	±20%	0.433	0.563	0.80	0.95	B
121	120		0.484	0.629	0.77	0.85	
151	150		0.580	0.754	0.70	0.80	
221	220		0.834	1.084	0.59	0.70	
331	330		1.270	1.651	0.57	0.57	
8040-R82	0.82	±30%	0.008	0.010	6.3	13.80	
1R0	1.0		0.008	0.010	6.3	9.85	
1R5	1.5		0.010	0.013	5.65	8.15	
2R0	2.0		0.012	0.016	5.15	9.25	
2R2	2.2		0.012	0.016	5.15	7.10	
3R0	3.0		0.014	0.018	4.70	6.10	
3R3	3.3		0.017	0.022	4.40	6.50	
3R6	3.6		0.017	0.022	4.35	7.52	
3R9	3.9		0.017	0.022	4.35	5.75	
4R7	4.7		0.019	0.025	4.10	5.90	
5R1	5.1		0.019	0.025	4.05	4.70	
5R6	5.6		0.021	0.027	3.85	6.00	
6R2	6.2		0.021	0.027	3.85	4.45	
6R8	6.8	±20%	0.024	0.031	3.60	4.55	
8R2	8.2		0.026	0.034	3.45	4.20	
100	10		0.029	0.038	3.30	3.60	
150	15		0.047	0.061	2.60	2.95	
180	18		0.053	0.069	2.40	2.70	
220	22		0.069	0.090	2.10	2.40	
270	27		0.078	0.101	2.00	2.15	
330	33		0.097	0.126	1.80	2.05	
360	36		0.102	0.133	1.75	2.00	
390	39		0.107	0.139	1.70	1.95	
430	43		0.113	0.147	1.65	1.90	
470	47		0.136	0.177	1.55	1.75	
510	51		0.142	0.185	1.50	1.70	
560	56		0.148	0.192	1.45	1.55	
620	62		0.182	0.237	1.30	1.50	
680	68		0.196	0.255	1.25	1.45	
750	75		0.211	0.274	1.20	1.35	
820	82		0.225	0.293	1.15	1.30	
910	91		0.272	0.354	1.05	1.20	
101	100		0.290	0.377	1.00	1.15	
121	120		0.334	0.434	0.95	1.05	
151	150		0.410	0.533	0.85	1.10	
221	220		0.599	0.779	0.80	0.85	
331	330		0.899	1.156	0.64	0.68	

1. Inductance measured @100KHz , 0.3V at 25°C temperature.

2. DCR measured @25°C.

3. I_{rms} for an approximate 40°C rise from 20°C ambient temperature.

4. I_{sat} for approximate 30% roll off at 25°C.

5. Specifications subject to change without notice please check our website for latest information.

