SMT Shielded Power Inductors

Inductance vs Current Rating Reference Table

RoHS

Legend
Isat (A) DCR (Ohms)
1.95 0.048

	SD6020		SD6030		SD7030		DR73		DRA73 *		DR74		DRA74*		DR1030		DR1040		DR1050		DR124		DRA124*		DR125		DRA125*		DR127		DRA127*	
L x W mm	5.7x5.7		5.7x5.7		6.7x6.7		7.3x7.3		7.3x7.3		7.3x7.3		7.3x7.3		10.0x10.2		10.0x10.2		10.0x10.2		12.3x12.3		12.3x12.3		12.3x12.3		12.3x12.3		12.3x12.3		12.3x12.3		12.3x12.3	
Height mm	2.0		3.0		3.0		3.55		3.55		4.35		4.35		3.0		4.0		5.0		4.5		4.5		6.0		6.0		8.0		8.0		
Inductance µH																																	
0.28-0.47							14.4	0.007	14.8	0.004	18.4	0.007	18.4	0.005							24.4	0.002	30.8	0.002	33.0	0.002	33.2	0.002	56.0	0.002	56.0	0.001
0.70-1.1							7.97	0.010	8.22	0.007	10.2	0.010	10.2	0.008	9.50	0.007			13.5	0.003	18.0	0.003	22.0	0.003	23.6	0.002	23.7	0.002	40.0	0.003	40.0	0.002
1.3-1.5					4.50	0.010	6.52	0.013	6.73	0.010	8.35	0.012	8.36	0.009			10.0	0.006	10.5	0.004	14.0	0.005	17.1	0.005	18.3	0.003	18.4	0.003	31.1	0.003	31.1	0.003
1.9-2.7			2.70	0.013			5.52	0.017	4.93	0.016	7.06	0.013	6.13	0.012	7.41	0.009	7.80	0.007	9.25	0.006	11.5	0.006	14.0	0.007	15.0	0.005	15.1	0.005	25.5	0.004	25.5	0.004
2.8-3.9	1.95	0.048	2.40	0.018	3.00	0.020	4.22	0.026	4.35	0.022	5.40	0.018	5.41	0.016	6.08	0.012	6.40	0.010	8.20	0.008	8.40	0.013	11.9	0.001	12.7	0.006	12.8	0.006	21.5	0.006	18.7	0.007
4.0-4.8			2.20	0.023	2.60	0.022	3.78	0.030	3.52	0.033			4.38	0.024	5.13	0.016			6.70	0.010	7.65	0.014	9.06	0.014					16.5	0.009	16.5	0.010
5.2-6.3	1.60	0.063	1.80	0.033	2.25	0.029					4.37	0.025			4.75	0.023	5.50	0.014	5.80	0.013	6.47	0.018			9.71	0.011	8.74	0.012				
6.5-7.5	1.40	0.080			2.10	0.045	3.12	0.044	2.96	0.041	3.68	0.034	3.68	0.034	3.90	0.025	4.80	0.017			6.22	0.022	7.33	0.021	8.68	0.012	7.90	0.013	13.3	0.012	13.3	0.012
8.0	1.25	0.097	1.60	0.039	1.85	0.048	2.66	0.059	2.74	0.053	3.40	0.044	3.17	0.040	3.54	0.028	4.60	0.024	5.00	0.015			6.70	0.028			7.86	0.018	12.2	0.016	12.2	0.016
10.0	1.20	0.103	1.30	0.048	1.70	0.054	2.47	0.066	2.39	0.064	3.17	0.049	2.97	0.043	3.18	0.040	4.40	0.026	4.58	0.018	5.80	0.023	6.16	0.031	7.17	0.019	7.22	0.017	11.2	0.017	11.2	0.017
15.0	0.97	0.163	1.10	0.076	1.40	0.070	2.05	0.084	2.00	0.094	2.48	0.064	2.36	0.067	2.66	0.057	3.60	0.037	3.70	0.026	4.62	0.037	5.31	0.044	5.69	0.030	5.72	0.027	9.66	0.025	9.03	0.027
22.0	0.80	0.242	0.90	0.090	1.20	0.107	1.67	0.107	1.64	0.141	2.13	0.093	1.96	0.100	2.19	0.096	2.90	0.054	3.00	0.039	3.83	0.054	4.16	0.071	4.71	0.040	4.74	0.035	7.57	0.039	7.57	0.040
33.0	0.65	0.321	0.75	0.140	0.97	0.138	1.35	0.166	1.35	0.183	1.73	0.143	1.61	0.151	1.81	0.114	2.45	0.069	2.50	0.058	3.12	0.081	3.42	0.108	3.84	0.051	3.86	0.053	6.22	0.060	6.22	0.060
47.0	0.54	0.496					1.14	0.241	1.10	0.275	1.41	0.216	1.37	0.219	1.52	0.167	2.10	0.095	2.10	0.089	2.63	0.125	2.91	0.134	3.24	0.074	3.13	0.081	5.28	0.072	5.09	0.091
68.0	0.43	0.700	0.52	0.263	0.65	0.253	0.96	0.358	0.94	0.397	1.19	0.265	1.11	0.286	1.24	0.253	1.65	0.152	1.70	0.111	2.13	0.183	2.37	0.201	2.70	0.101	2.64	0.120	4.44	0.105	4.18	0.115
82.0	0.41	0.815	0.46	0.343	0.60	0.325	0.89	0.384	0.85	0.530	1.11	0.345	1.03	0.367	1.14	0.332	1.47	0.214	1.58	0.147	1.94	0.212	2.23	0.257	2.39	0.128	2.41	0.135	4.06	0.143	3.84	0.155
100	0.36	1.00	0.42	0.385	0.54	0.446	0.79	0.527	0.76	0.609	0.99	0.383	0.93	0.419	1.05	0.375	1.35	0.225	1.45	0.164	1.79	0.257	2.00	0.296	2.20	0.170	2.21	0.178	3.64	0.163	3.46	0.175
150			0.35	0.608	0.44	0.715	0.65	0.851	0.63	0.932	0.81	0.591	0.75	0.648	0.86	0.590	1.15	0.356	1.15	0.238	1.44	0.371	1.62	0.454	1.81	0.248	1.79	0.273	3.01	0.247	2.83	0.269
220			0.30	1.00	0.36	1.10	0.53	1.05	0.51	1.23	0.66	0.907	0.63	0.960			0.92	0.530	0.98	0.377	1.15	0.558	1.36	0.568	1.51	0.384	1.47	0.416	2.43	0.376	2.35	0.398
330			0.25	1.73	0.30	1.44	0.44	1.59	0.42	1.85	0.54	1.41	0.51	1.50			0.70	0.810	0.80	0.554	0.92	0.825	1.09	0.892	1.22	0.482	1.19	0.543	2.01	0.574	1.93	0.612
470			0.20	2.25	0.25	2.15	0.37	2.36	0.35	2.67	0.46	1.74	0.42	1.93					0.62	0.855	0.74	1.24	0.91	1.32	1.02	0.718	1.01	0.790	1.68	0.861	1.62	0.910
680			0.16	3.46	0.21	3.21	0.31	3.47	0.30	3.89	0.38	2.58	0.35	2.86					0.55	1.10	0.65	1.85	0.76	1.96	0.85	1.10	0.83	1.20	1.39	1.08	1.33	1.15
820							0.28	3.93	0.27	4.46	0.35	2.93	0.33	3.63					0.50	1.19	0.62	2.11	0.70	2.57	0.77	1.49	0.76	1.36	1.27	1.47	1.22	1.54
1000							0.25	4.34	0.24	5.15	0.31	3.89	0.29	4.19					0.48	1.53	0.53	2.90	0.63	2.94	0.70	1.69	0.70	1.78	1.14	1.66	1.10	1.75

* All DRA solutions (DRA73, DRA74, DRA124, DRA125, and DRA127) are automotive grade components tested per AEC-Q200

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