

Unshielded Power Inductors-LSC Series



- Test Freq.(L): LSC0301:100KHz/0.1V
LSC031B:(1MHz/1V)
LSC0302/0403/0501/0502/0503: 1.0~8.2 μ H(7.96MHz/1V),10~82 μ H(2.52MHz/1V),10~1000 μ H(1KHz/1V).
LSC0504/0703/1004:1.0~8.2 μ H(7.96MHz/1V),10~82 μ H(2.52MHz/1V),10~1000 μ H(1KHz/1V).
LSC1005:1.0~8.2 μ H(7.96MHz/1V),10~82 μ H(2.52MHz/1V),10~1000 μ H(1KHz/1V).
LSC105B:10~82 μ H(2.52MHz/0.25V),100~470 μ H(1KHz/0.25V).

- Test instrument:L:HP4192A
DCR:CHEN HWA 502BC
Rated D.C. Current:HP4284+42841AorCH1061+CH301A

Electrical Characteristics

Stamp	Inductance (μ H)	Rated current (A) Max.												
		LSC 0301	LSC 031B	LSC 0302	LSC 0403	LSC 0501	LSC 0502	LSC 0503	LSC 0504	LSC 0703	LSC 0705	LSC 1004	LSC 1005	LSC 105B
1R0	1.0			1.00	1.00	1.00	1.00	1.00						
1R2	1.2			1.00				1.00						
1R4	1.4				1.00	1.00	1.00				1.00			
1R5	1.5			1.00				1.00						
1R8	1.8			1.00	1.00	1.00	1.00	1.00			1.00			
2R2	2.2	1.00	0.79	1.00	1.00	1.00	1.00	1.00						
2R7	2.7			1.00	1.00	1.00	1.00	1.00			1.00			
3R3	3.3	0.92		1.00	1.00	1.00	1.00	1.00						
3R9	3.9			1.00	1.00	1.00	1.00	1.00			1.00			
4R7	4.7	0.74	0.65	0.91	1.00	1.00	1.00	1.00			1.00		1.00	
5R6	5.6			0.85	1.00	1.00	1.00	1.00			1.00			
6R8	6.8	0.63		0.82	1.00	1.00	1.00	1.00			1.00		1.00	
8R2	8.2	0.58		0.74	1.00	1.00	1.00	1.00			1.00			
100	10	0.50	0.45	0.64	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
120	12	0.46		0.60	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
150	15	0.43	0.30	0.54	0.92	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
180	18			0.50	0.84	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
220	22	0.35	0.25	0.43	0.76	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
270	27	0.32		0.40	0.71	0.77	0.86	1.00	0.97	0.94	1.00	1.00	1.00	1.00
330	33		0.20	0.37	0.64	0.68	0.76	1.00	0.00	0.85	1.00	1.00	1.00	1.00
390	39			0.36	0.59	0.67	0.75	1.00	0.88	0.74	1.00	1.00	1.00	1.00
470	47		0.17	0.33	0.54	0.66	0.73	0.90	0.72	0.68	1.00	1.00	1.00	1.00
500	50			0.31		0.61								
560	56			0.30	0.50	0.50	0.55	0.85	0.68	0.64	0.94	1.00	1.00	0.93
680	68		0.13	0.29	0.46	0.47	0.52	0.80	0.61	0.59	0.85	0.91	1.00	0.85
750	75			0.28		0.46								
820	82		0.10	0.25		0.45	0.50	0.65	0.58	0.54	0.78	0.85	1.00	0.79
101	100			0.20	0.40	0.36	0.40	0.60	0.52	0.51	0.72	0.74	0.97	0.72
121	120			0.19		0.32	0.36	0.58	0.48	0.49	0.66	0.69	0.89	0.63
151	150			0.17		0.27	0.30	0.43	0.40	0.40	0.58	0.61	0.78	0.55
181	180			0.16		0.23	0.26	0.41	0.38	0.36	0.51	0.56	0.72	0.50
221	220			0.14		0.22	0.25	0.38	0.35	0.31	0.49	0.53	0.66	0.47
271	270			0.14		0.19	0.21	0.35	0.29	0.29	0.42	0.45	0.57	0.41
301	300			0.13		0.18								
331	330			0.12		0.16	0.18	0.28	0.28	0.28	0.40	0.42	0.52	0.37
391	390			0.09		0.15	0.16	0.26	0.26		0.36	0.38	0.48	0.35
461	460			0.08		0.14								
471	470			0.08		0.14	0.15	0.20	0.12		0.34	0.35	0.42	0.33
561	560			0.08		0.13	0.14	0.19	0.10			0.32	0.33	
681	680			0.07		0.12	0.13	0.18	0.08				0.28	
821	820			0.06		0.06	0.07	0.15	0.05				0.24	
102	1000					0.05	0.05	0.13						
122	1200		0.05											
152	1500		0.03											

- LSC0301 2.2 μ H $\pm$ 20% μ H $\pm$ 20%
- LSC031B 2.2~1500 μ H $\pm$ 20%
- LSC0302 1.0~1000 μ H $\pm$ 20%
- LSC0403 1.0~27 μ H $\pm$ 20% 33~100 μ H $\pm$ 10%
- LSC0501 1.0~27 μ H $\pm$ 20% 33~1000 μ H $\pm$ 10%
- LSC0502 1.0~27 μ H $\pm$ 20% 33~1000 μ H $\pm$ 10%
- LSC0503 1.0~27 μ H $\pm$ 20% 33~1000 μ H $\pm$ 10%
- LSC0504 10~27 μ H $\pm$ 20%;33~47 μ H $\pm$ 15%;56~220 μ H $\pm$ 10%
- LSC0703 10~47 μ H $\pm$ 20% 56~330 μ H $\pm$ 10%
- LSC0705 1.4~47 μ H $\pm$ 20% 56~470 μ H $\pm$ 10%
- LSC1004 10~47 μ H $\pm$ 20% 56~560 μ H $\pm$ 10%
- LSC1005 4.7~39 μ H $\pm$ 20% 47~820 μ H $\pm$ 10%
- LSC105B 10~27 μ H $\pm$ 20%;33~82 μ H $\pm$ 15%;100~470 μ H $\pm$ 10%

* This indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition or D.C Current when at $\Delta t=4^{\circ}\text{C}$ whichever is lower.