LMax Low Profile Power Inductor

LMLP Series – Style M

FEATURES

- Very low profile.
- Constructed enclosed in a rugged to provide optimum pick and place operations.
- High inductance & high current ultra low profile power inductors.

APPLICATIONS

- LCD Televisions
- Personal Computers
- Handheld Communication
- DC/DC Converters, etc.

CHARACTERISTICS

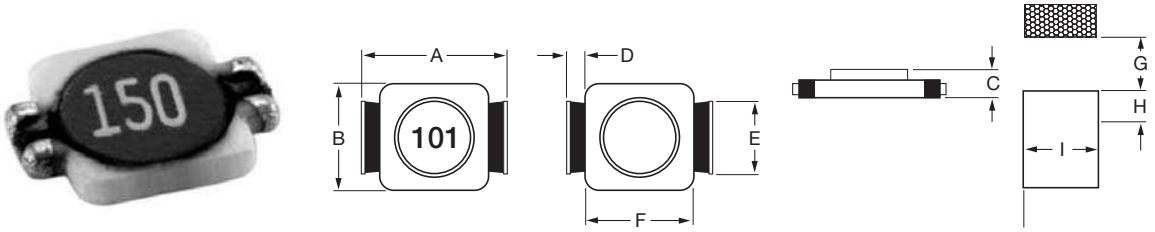
- Rated Current (IDC): The DC current when the inductance becomes 10% lower than its initial value. (Ta=25°C)
- Operating temperature range: -40 ~ +100°C

INDUCTANCE AND RATED CURRENT RANGES

- 0606 1.2 ~ 330µH 2.1 ~ 0.13A
- 06A6 1.2 ~ 100µH 1.8 ~ 0.235A
- 06B6 1.0 ~ 1000µH 2.5 ~ 0.08A
- Electrical specifications at 25°C

RoHS COMPLIANT

DIMENSIONS



mm (inches)

Type	A max	B ±0.3	C max	D	E	F	G	H	I
0606	6.50 (0.256)	5.30 (0.209)	1.20 (0.047)	0.90 (0.035)	3.00 (0.118)	4.50 (0.177)	4.00 (0.157)	1.50 (0.059)	3.40 (0.134)
06A6	6.50 (0.256)	5.30 (0.209)	1.20 (0.047)	0.90 (0.035)	3.00 (0.118)	4.50 (0.177)	4.00 (0.157)	1.50 (0.059)	3.40 (0.134)
06B6	6.50 (0.256)	5.30 (0.209)	2.00 (0.079)	0.90 (0.035)	3.00 (0.118)	4.50 (0.177)	4.00 (0.157)	1.50 (0.059)	3.40 (0.134)

HOW TO ORDER

LM	LP	0606	M	R04	M	T	A	S
Family LM = Power Inductor	**Series** LP = Low Profile	**Size** See table	**Tolerance** M = 20%	**Inductance** 3R9 = 3.900µH 390 = 39.00µH 391 = 390.0µH	**Style**	**Termination** T = Sn Plate	**Special** A = Standard	**Packaging** S = 13" Reel

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ELECTRICAL CHARACTERISTICS

0606

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
1R2	1.2	M	100KHz, 0.1V	0.08	2.1
1R5	1.5	M	100KHz, 0.1V	0.10	1.9
2R2	2.2	M	100KHz, 0.1V	0.12	1.6
3R3	3.3	M	100KHz, 0.1V	0.16	1.3
4R7	4.7	M	100KHz, 0.1V	0.20	1.1
6R8	6.8	M	100KHz, 0.1V	0.32	0.9
100	10	M	100KHz, 0.1V	0.41	0.8
150	15	M	100KHz, 0.1V	0.65	0.65
220	22	M	100KHz, 0.1V	0.85	0.50
330	33	M	100KHz, 0.1V	1.30	0.40
470	47	M	100KHz, 0.1V	1.80	0.35
680	68	M	100KHz, 0.1V	2.50	0.30
101	100	M	100KHz, 0.1V	3.50	0.25
151	150	M	100KHz, 0.1V	6.50	0.18
221	220	M	100KHz, 0.1V	8.50	0.16
331	330	M	100KHz, 0.1V	15.0	0.13

06A6

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
1R2	1.2	M	100KHz, 0.1V	0.060	1.80
2R2	2.2	M	100KHz, 0.1V	0.125	1.20
3R3	3.3	M	100KHz, 0.1V	0.155	0.96
4R7	4.7	M	100KHz, 0.1V	0.206	0.90
6R8	6.8	M	100KHz, 0.1V	0.240	0.80
100	10	M	100KHz, 0.1V	0.370	0.70
150	15	M	100KHz, 0.1V	0.460	0.60
180	18	M	100KHz, 0.1V	0.580	0.56
220	22	M	100KHz, 0.1V	0.668	0.50
270	27	M	100KHz, 0.1V	0.950	0.45
330	33	M	100KHz, 0.1V	1.100	0.42
390	39	M	100KHz, 0.1V	1.280	0.38
470	47	M	100KHz, 0.1V	1.380	0.34
560	56	M	100KHz, 0.1V	1.700	0.30
680	68	M	100KHz, 0.1V	2.100	0.28
820	82	M	100KHz, 0.1V	2.700	0.26
101	100	M	100KHz, 0.1V	3.100	0.235

06B6

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
1R0	1.0	M	100KHz, 0.1V	0.04	2.5
1R5	1.5	M	100KHz, 0.1V	0.06	2.2
2R2	2.2	M	100KHz, 0.1V	0.07	1.8
3R3	3.3	M	100KHz, 0.1V	0.10	1.4
4R7	4.7	M	100KHz, 0.1V	0.12	1.2
6R8	6.8	M	100KHz, 0.1V	0.19	1.1
100	10	M	100KHz, 0.1V	0.30	1.0
150	15	M	100KHz, 0.1V	0.40	0.8
220	22	M	100KHz, 0.1V	0.54	0.6
330	33	M	100KHz, 0.1V	0.74	0.5
470	47	M	100KHz, 0.1V	1.10	0.45
680	68	M	100KHz, 0.1V	1.60	0.35
101	100	M	100KHz, 0.1V	2.30	0.30
151	150	M	100KHz, 0.1V	3.20	0.25
221	220	M	100KHz, 0.1V	5.70	0.20
331	330	M	100KHz, 0.1V	8.20	0.16
471	470	M	100KHz, 0.1V	10.8	0.14
681	680	M	100KHz, 0.1V	17.2	0.12
102	1000	M	100KHz, 0.1V	22.6	0.08