

LMax Low Profile Power Inductor



LMLP Series – Style D

FEATURES

- Large current adaptable
- Lower temperature rise at large current
- Low profile, low DCR
- Available on tape and reel for auto surface mounting

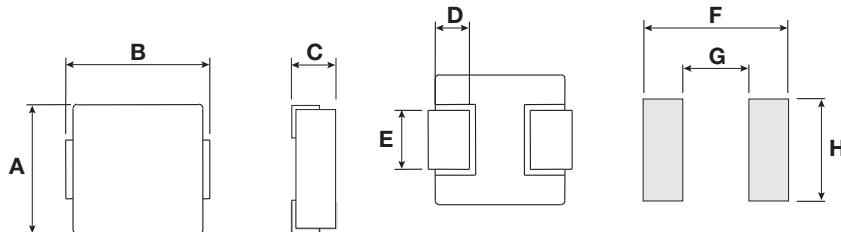
APPLICATIONS

- Laptop, Desktop, Notebook Computers
- Terminals, Portable Servers, Workstation
- DC/DC Converter in Distributed Power
- Systems or VRM Applications
- Thin Type On-board Power Supply Module for Exchanger

CHARACTERISTICS

- Typical Saturation DC Current would cause Lo to drop approximately 30% (Typical)
- Typical Heat Rating DC Current would cause an approximate ΔT of 40°C
- All test data is referenced at 25°C ambient

DIMENSIONS



mm (inches)

Type	A	B	C	D	E	F	G	H
0506	4.90 ± 0.20 (0.193 ± 0.008)	5.80 ± 0.20 (0.228 ± 0.008)	2.80 ± 0.20 (0.110 ± 0.008)	1.00 ± 0.30 (0.039 ± 0.012)	1.50 ± 0.30 (0.059 ± 0.012)	7.00 (0.276)	3.00 (0.118)	2.50 (0.098)
0707	6.60 ± 0.20 (0.260 ± 0.008)	7.20 ± 0.30 (0.283 ± 0.012)	2.20 ± 0.20 (0.110 ± 0.008)	1.60 ± 0.30 (0.063 ± 0.012)	3.00 ± 0.30 (0.118 ± 0.012)	8.40 (0.331)	3.70 (0.146)	3.50 (0.138)
07A7	6.60 ± 0.20 (0.260 ± 0.008)	7.20 ± 0.30 (0.283 ± 0.012)	2.80 ± 0.20 (0.110 ± 0.008)	1.60 ± 0.30 (0.063 ± 0.012)	3.00 ± 0.30 (0.118 ± 0.012)	8.40 (0.331)	3.70 (0.146)	3.50 (0.138)
1011	10.0 ± 0.30 (0.394 ± 0.008)	11.1 ± 0.35 (0.437 ± 0.014)	3.80 ± 0.20 (0.150 ± 0.008)	2.00 ± 0.50 (0.079 ± 0.020)	3.00 ± 0.50 (0.118 ± 0.020)	13.6 (0.535)	5.40 (0.213)	4.10 (0.161)
1313	12.8 ± 0.20 (0.504 ± 0.008)	13.45 ± 0.35 (0.437 ± 0.014)	4.80 ± 0.20 (0.189 ± 0.008)	2.20 ± 0.50 (0.087 ± 0.020)	3.80 ± 0.50 (0.150 ± 0.020)	14.5 (0.571)	8.00 (0.315)	5.00 (0.197)

HOW TO ORDER

LM

Family

LP

Series

0707

Size

M

Tolerance

R04

Inductance

D

Style

T

Termination

A

Special

S

Packaging

LM = Power Inductor

LP = Low Profile

0707 = 7x7xh

07A7 = 7x7xA(h)

(h = see catalog)

M = 20%

R39 = 0.390 μ H

3R9 = 3.900 μ H

390 = 39.00 μ H

391 = 390.0 μ H



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ELECTRICAL CHARACTERISTICS

0506

Codes	Inductance LO @OA (uH)	Tolerance	Test Condition	DCR (mΩ)		Heat Rating Current IDC (A) Typical	Saturation Current I sat (A) Typical
				Typical	Max.		
R68	0.68	M	100KHz, 0.1V	11.0	12.0	8.5	14.0
1R0	1.0	M	100KHz, 0.1V	13.0	14.0	7.0	11.0
1R2	1.2	M	100KHz, 0.1V	15.0	16.0	6.5	11.0
1R5	1.5	M	100KHz, 0.1V	20.0	25.0	6.0	10.0
2R2	2.2	M	100KHz, 0.1V	29.0	35.0	5.5	9.0
3R3	3.3	M	100KHz, 0.1V	32.0	38.0	5.0	7.0
4R7	4.7	M	100KHz, 0.1V	50.0	60.0	4.0	5.0

0707

Codes	Inductance LO @OA (uH)	Tolerance	Test Condition	DCR (mΩ)		Heat Rating Current IDC (A) Typical	Saturation Current I sat (A) Typical
				Typical	Max.		
R10	0.10	M	100KHz, 0.1V	1.5	1.7	30.0	70.0
R20	0.20	M	100KHz, 0.1V	2.2	2.8	25.0	50.0
R22	0.22	M	100KHz, 0.1V	2.6	3.2	21.0	34.0
R47	0.47	M	100KHz, 0.1V	4.9	5.5	15.0	22.0
R56	0.56	M	100KHz, 0.1V	5.9	6.5	13.0	20.0
R81	0.81	M	100KHz, 0.1V	8.3	9.5	11.0	14.0
1R0	1.0	M	100KHz, 0.1V	11.2	13.5	9.0	16.0
1R5	1.5	M	100KHz, 0.1V	17.0	20.0	9.0	15.0
2R2	2.2	M	100KHz, 0.1V	23.0	28.0	7.0	14.0
3R3	3.3	M	100KHz, 0.1V	31.0	39.0	5.5	13.0
4R7	4.7	M	100KHz, 0.1V	41.0	50.0	5.0	10.0
6R8	6.8	M	100KHz, 0.1V	57.0	70.0	4.0	6.0

07A7

Codes	Inductance LO @OA (uH)	Tolerance	Test Condition	DCR (mΩ)		Heat Rating Current IDC (A) Typical	Saturation Current I sat (A) Typical
				Typical	Max.		
R10	0.10	M	100KHz, 0.1V	1.5	1.7	32.5	60.0
R15	0.15	M	100KHz, 0.1V	1.9	2.5	30.0	45.0
R20	0.20	M	100KHz, 0.1V	2.4	3.0	24.0	41.0
R22	0.22	M	100KHz, 0.1V	2.5	2.8	23.0	40.0
R33	0.33	M	100KHz, 0.1V	3.5	3.9	20.0	30.0
R36	0.36	M	100KHz, 0.1V	2.6	3.9	20.0	26.0
R47	0.47	M	100KHz, 0.1V	4.0	4.2	17.5	26.0
R56	0.56	M	100KHz, 0.1V	4.7	5.0	16.5	25.5
R68	0.68	M	100KHz, 0.1V	5.0	5.5	15.5	25.0
R82	0.82	M	100KHz, 0.1V	6.7	8.0	13.0	24.0
1R0	1.0	M	100KHz, 0.1V	9.0	10	11.0	22.0
1R5	1.5	M	100KHz, 0.1V	14	15	9.0	18.0
2R2	2.2	M	100KHz, 0.1V	18	20	8.0	14.0
2R5	2.5	M	100KHz, 0.1V	20	22	7.0	14.0
3R3	3.3	M	100KHz, 0.1V	28	30	6.0	13.5
4R7	4.7	M	100KHz, 0.1V	37	40	5.5	10.0
5R6	5.6	M	100KHz, 0.1V	39	42	5.5	6.0
6R8	6.8	M	100KHz, 0.1V	54	60	4.5	8.0
7R5	7.5	M	100KHz, 0.1V	54	60	4.2	7.8
8R2	8.2	M	100KHz, 0.1V	64	68	4.0	7.5
100	10	M	100KHz, 0.1V	102	105	3.0	7.0

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LMLP Series – Style D

1011

Codes	Inductance LO @OA (uH)	Tolerance	Test Condition	DCR (mΩ)		Heat Rating Current IDC (A) Typical	Saturation Current I sat (A) Typical
				Typical	Max.		
R22	0.22	M	100KHz, 0.1V	1.1	1.5	32.0	50.0
R36	0.36	M	100KHz, 0.1V	1.5	1.7	31.5	50.0
R47	0.47	M	100KHz, 0.1V	1.5	1.9	27.5	49.0
R56	0.56	M	100KHz, 0.1V	1.9	2.3	27.5	49.0
R68	0.68	M	100KHz, 0.1V	2.0	2.5	23.0	40.0
R88	0.88	M	100KHz, 0.1V	2.7	3.0	20.0	38.0
1R0	1.0	M	100KHz, 0.1V	3.7	4.1	17.5	36.0
1R5	1.5	M	100KHz, 0.1V	5.3	6.0	15.0	27.5
1R8	1.8	M	100KHz, 0.1V	7.0	8.2	15.0	27.5
2R2	2.2	M	100KHz, 0.1V	8.2	9.0	12.0	25.6
3R3	3.3	M	100KHz, 0.1V	10.8	11.8	10.0	18.6
4R7	4.7	M	100KHz, 0.1V	15.0	16.5	9.5	17.0
5R6	5.6	M	100KHz, 0.1V	17.6	19.3	8.5	16.0
6R8	6.8	M	100KHz, 0.1V	17.5	25.0	8.0	14.0
8R2	8.2	M	100KHz, 0.1V	21.2	26.3	8.0	13.5
100	10	M	100KHz, 0.1V	33.2	36.5	6.8	12.0
150	15	M	100KHz, 0.1V	51.0	65.0	3.5	7.0
220	22	M	100KHz, 0.1V	90.0	120.0	2.0	3.0
330	33	M	100KHz, 0.1V	155.0	200.0	1.8	2.8
470	47	M	100KHz, 0.1V	170.0	210.0	1.2	2.0

1313

Codes	Inductance LO @OA (uH)	Tolerance	Test Condition	DCR (mΩ)		Heat Rating Current IDC (A) Typical	Saturation Current I sat (A) Typical
				Typical	Max.		
R36	0.36	M	100KHz, 0.1V	0.77	1.1	41.0	75.0
R47	0.47	M	100KHz, 0.1V	1.10	1.3	38.0	65.0
R68	0.68	M	100KHz, 0.1V	1.50	1.7	34.0	54.0
1R0	1.0	M	100KHz, 0.1V	2.10	2.5	29.0	50.0
1R5	1.5	M	100KHz, 0.1V	3.40	4.1	23.0	48.0
1R8	1.8	M	100KHz, 0.1V	4.20	4.9	19.0	40.0
2R2	2.2	M	100KHz, 0.1V	4.60	5.5	20.0	32.0