

AVX SMD Power Inductors



Version 12.6



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LMax SMD Power Inductor

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LMax DIP Power Inductor

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LMax SMD Power Inductor



LMXN Series – Non-Shielded Style B

FEATURES

- Miniature surface mount design
- High power, High saturation inductors
- Very low resistance
- Maximum power density
- Ideal inductors for DC-DC converters
- Available on tape and reel for auto surface mounting

APPLICATIONS

- Notebook Computers
- Handheld Communications
- LCD Televisions
- Power Supply For VTRs
- DC/DC Converters, etc.

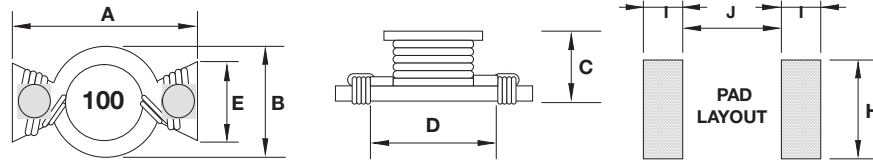
CHARACTERISTICS

- Saturation Rated Current: The current when the inductance becomes 30% lower than its initial value. (Ta=25°C)
- Operating temperature range: -40 ~ 85°C

INDUCTANCE AND RATED CURRENT RANGES

- 0705 0.47µH ~ 22.0µH 7.7 ~ 0.70A
- 0906 0.56µH ~ 100µH 7.7 ~ 0.53A
- 1310 0.47µH ~ 100µH 11.4 ~ 0.95A
- 1913 0.47µH ~ 100µH 25.1 ~ 1.80A
- 2216 0.78µH ~ 1000µH 30.0 ~ 0.4A
- Electrical specifications at 25°C

DIMENSIONS



Type	A max.	B max.	C max.	D	E	H	I	J
0705	7.50 (0.295)	5.20 (0.205)	3.20 (0.126)	4.60 (0.181)	2.50 (0.098)	4.00 (0.157)	2.00 (0.079)	4.00 (0.157)
0906	8.89 (0.350)	6.40 (0.252)	5.00 (0.197)	5.84 (0.230)	2.60 (0.103)	4.06 (0.160)	2.00 (0.079)	5.08 (0.200)
1310	13.20 (0.560)	9.90 (0.390)	6.35 (0.250)	9.50 (0.374)	4.50 (0.177)	6.50 (0.256)	2.30 (0.091)	9.00 (0.344)
1913	19.40 (0.764)	13.30 (0.524)	6.80 (0.268)	12.7 (0.500)	6.60 (0.260)	8.00 (0.315)	3.80 (0.150)	11.7 (0.460)
2216	22.35 (0.880)	16.26 (0.604)	8.00 (0.315)	16.0 (0.630)	8.00 (0.315)	8.64 (0.340)	4.30 (0.169)	14.35 (0.565)

mm (inches)

HOW TO ORDER

LM	XN	0705	M	R04	B	T	A	S
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XN = Non-Shielded	0705 = 7x5xh (h = see catalog)	M = ±20% P = +40% -20%	R04 = 0.039µH R39 = 0.390µH 3R9 = 3.900µH 390 = 39.00µH 391 = 390.0µH 392 = 3900µH	T = Sn Plate	A = Standard	S = 13" Reel	



LMax SMD Power Inductor



LMXN Series – Non-Shielded Style B

ELECTRICAL CHARACTERISTICS

0705/0906/1310/1913/2216

Codes	L (μ H)	Tolerance			Test Condition	DCR (Ω) max.					IDC (A) max.				
		705	0906 2216	1310 1913		0705	0906	1310	1913	2216	0705	0906	1310	1913	2216
R47	0.47	P	-	P	100KHz, 0.1V	0.025	-	0.005	0.003	-	7.7	-	11.4	25.1	-
R56	0.56	-	M	-	100KHz, 0.1V	-	0.010	-	-	-	-	7.7	-	-	-
R78	0.78	-	M	-	100KHz, 0.1V	-	-	-	-	0.003	-	-	-	-	30
1R0	1.0	M	-	P	100KHz, 0.1V	0.050	-	0.006	0.004	-	2.9	-	9.9	15.3	-
1R5	1.5	M	M	P	100KHz, 0.1V	0.050	-	0.008	0.006	0.004	2.6	-	7.9	12	25
2R2	2.2	M	M	M	100KHz, 0.1V	0.070	0.035	0.011	0.008	0.006	2.3	3.5	6.1	10.2	20
3R3	3.3	M	M	M	100KHz, 0.1V	0.080	0.040	0.014	0.009	0.009	2	3	5.1	9.3	17
3R9	3.9	-	M	-	100KHz, 0.1V	-	-	-	-	0.010	-	-	-	-	15
4R7	4.7	M	M	M	100KHz, 0.1V	0.090	0.054	0.018	0.012	0.014	1.5	2.6	4.2	7.7	13
6R0	6.0	-	M	-	100KHz, 0.1V	-	-	-	-	0.017	-	-	-	-	12
6R8	6.8	M	M	M	100KHz, 0.1V	0.130	0.08	0.027	0.019	-	1.2	2.2	3.6	6.2	-
7R8	7.8	-	M	-	100KHz, 0.1V	-	-	-	-	0.018	-	-	-	-	11
100	10	M	M	M	100KHz, 0.1V	0.160	0.111	0.038	0.027	0.026	1.1	1.9	3.3	5.2	10
150	15	M	M	M	100KHz, 0.1V	0.230	0.170	0.045	0.032	0.032	0.9	1.5	2.4	4.3	8
220	22	M	M	M	100KHz, 0.1V	0.370	0.250	0.070	0.050	0.043	0.7	1.2	2	3.7	7
330	33	-	M	M	100KHz, 0.1V	-	0.350	0.100	0.069	0.066	-	0.99	1.7	3	6
470	47	-	M	M	100KHz, 0.1V	-	0.470	0.150	0.109	0.096	-	0.87	1.4	2.4	5
680	68	-	M	M	100KHz, 0.1V	-	0.730	0.220	0.156	0.115	-	0.68	1.2	2	4
101	100	-	M	M	100KHz, 0.1V	-	1.110	0.280	0.206	0.165	-	0.53	0.95	1.8	3
221	220	-	M	-	100KHz, 0.1V	-	-	-	-	0.396	-	-	-	-	4
331	330	-	M	-	100KHz, 0.1V	-	-	-	-	0.588	-	-	-	-	1
471	470	-	M	-	100KHz, 0.1V	-	-	-	-	0.950	-	-	-	-	0.8
681	680	-	M	-	100KHz, 0.1V	-	-	-	-	1.200	-	-	-	-	0.5
102	1000	-	M	-	100KHz, 0.1V	-	-	-	-	1.600	-	-	-	-	0.4

LMax SMD Power Inductor



LMXN Series – Non-Shielded Style C

FEATURES

- High power, High saturation inductors
- Ideal inductors for DC-DC converters in notebook computers, PDAs, Step-up or step-down converters, flash memory programmers, etc.
- 0705 has ceramic base with gold-plating
- Others have LCP plastic base

APPLICATIONS

- Portable Telephones
- Personal Computers
- DC/DC Converters
- Various Electronic Appliances

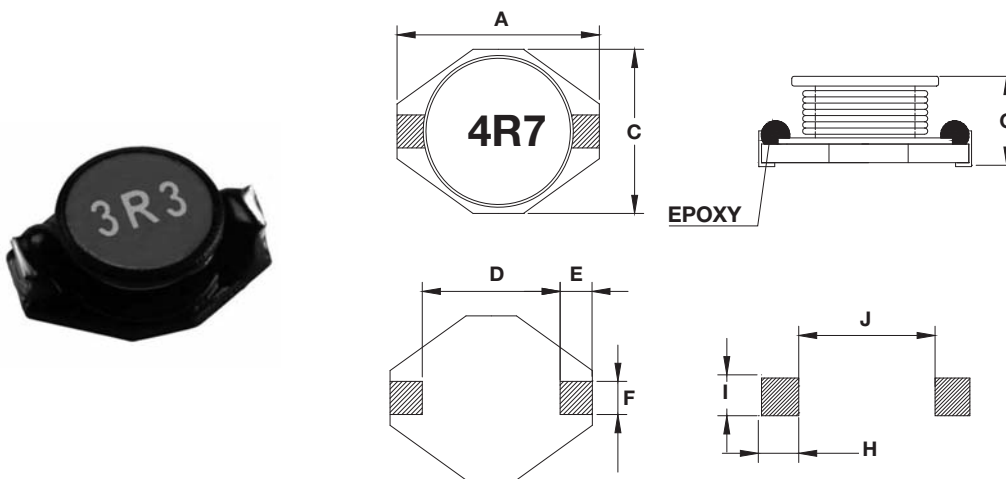
CHARACTERISTICS

- Saturation Rated Current: The current when the inductance becomes 10% lower than its initial value. (Ta=25°C)
- Operating temperature range: -40 ~ 125°C

INDUCTANCE AND RATED CURRENT RANGES

- 0705 1.0μH ~ 1000μH 2.9 ~ 0.10A
- 0906 0.18μH ~ 100μH 14 ~ 0.53A
- 1309 4.7μH ~ 1000μH 4.2 ~ 0.29A
- 13E9 1.0μH ~ 1000μH 9.0 ~ 0.30A
- 13L9 0.47μH ~ 1000μH 40 ~ 0.8A
- 1915 1.0μH ~ 1000μH 20 ~ 1.0A
- Electrical specifications at 25°C

DIMENSIONS



mm (inches)

Type	A max.	B max.	C max.	D	E	F	H	I	J
0705	6.60 (0.260)	4.45 (0.175)	2.92 (0.115)	4.32 (0.170)	1.27 (0.050)	1.02 (0.040)	3.56 (0.140)	1.40 (0.055)	4.06 (0.160)
0906	8.89 (0.350)	6.10 (0.240)	4.70 (0.185)	5.00 (0.197)	2.00 (0.079)	1.50 (0.059)	3.50 (0.138)	2.20 (0.087)	4.80 (0.189)
1309	12.95 (0.510)	9.40 (0.370)	3.00 (0.118)	7.62 (0.300)	2.54 (0.100)	2.54 (0.100)	2.79 (0.110)	2.92 (0.115)	7.37 (0.290)
13E9	12.95 (0.510)	9.40 (0.370)	5.21 (0.205)	7.62 (0.300)	2.54 (0.100)	2.54 (0.100)	2.79 (0.110)	2.92 (0.115)	7.37 (0.290)
13L9	12.95 (0.510)	9.40 (0.370)	11.43 (0.450)	7.62 (0.300)	2.54 (0.100)	2.54 (0.100)	2.79 (0.110)	2.92 (0.115)	7.37 (0.290)
1915	18.54 (0.730)	15.24 (0.600)	7.11 (0.280)	12.7 (0.500)	2.54 (0.100)	2.54 (0.100)	2.79 (0.110)	2.92 (0.115)	12.45 (0.490)

LMax SMD Power Inductor



LMXN Series – Non-Shielded Style C

HOW TO ORDER

LM	XN	1309	M	R04	C	T	A	S
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XN = Non-shielded	1309 = 13x9xh 13E9 = 13x9xE(h) (h = see catalog)	M = ±20% N = ±30%	R04 = 0.039µH R39 = 0.390µH 3R9 = 3.900µH 390 = 39.00µH 391 = 390.0µH 392 = 3900µH		T = Sn Plate	A = Standard	S = 13" Reel

ELECTRICAL CHARACTERISTICS

0705

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
1R0	1.0	M	100KHz, 0.1V	0.05	2.90
1R5	1.5	M	100KHz, 0.1V	0.06	2.60
2R2	2.2	M	100KHz, 0.1V	0.07	2.30
3R3	3.3	M	100KHz, 0.1V	0.08	2.00
4R7	4.7	M	100KHz, 0.1V	0.09	1.50
6R8	6.8	M	100KHz, 0.1V	0.13	1.20
8R2	8.2	M	100KHz, 0.1V	0.16	1.15
100	10	M	100KHz, 0.1V	0.16	1.10
150	15	M	100KHz, 0.1V	0.23	0.90
220	22	M	100KHz, 0.1V	0.37	0.70
330	33	M	100KHz, 0.1V	0.51	0.58
470	47	M	100KHz, 0.1V	0.64	0.50
680	68	M	100KHz, 0.1V	0.86	0.40
101	100	M	100KHz, 0.1V	1.27	0.31
151	150	M	100KHz, 0.1V	2.00	0.27
221	220	M	100KHz, 0.1V	3.11	0.22
331	330	M	100KHz, 0.1V	3.80	0.18
471	470	M	100KHz, 0.1V	5.06	0.16
681	680	M	100KHz, 0.1V	9.20	0.14
102	1000	M	100KHz, 0.1V	13.8	0.10

0906

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
R18	0.18	N	100KHz, 0.1V	0.007	14.0
R33	0.33	N	100KHz, 0.1V	0.008	10.0
R56	0.56	N	100KHz, 0.1V	0.010	7.7
1R2	1.2	N	100KHz, 0.1V	0.017	5.3
2R2	2.2	N	100KHz, 0.1V	0.035	3.5
3R3	3.3	N	100KHz, 0.1V	0.040	3.0
4R7	4.7	N	100KHz, 0.1V	0.064	2.6
6R8	6.8	N	100KHz, 0.1V	0.080	2.2
100	10	M	100KHz, 0.1V	0.111	1.9
150	15	M	100KHz, 0.1V	0.170	1.5
220	22	M	100KHz, 0.1V	0.250	1.2
330	33	M	100KHz, 0.1V	0.350	0.99
470	47	M	100KHz, 0.1V	0.470	0.87
680	68	M	100KHz, 0.1V	0.730	0.67
101	100	M	100KHz, 0.1V	1.110	0.53

LMax SMD Power Inductor



LMXN Series – Non-Shielded Style C

1309

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
4R7	4.7	M	100KHz, 0.1V	0.036	4.20
6R8	6.8	M	100KHz, 0.1V	0.060	3.90
100	10	M	100KHz, 0.1V	0.085	2.70
150	15	M	100KHz, 0.1V	0.12	2.30
220	22	M	100KHz, 0.1V	0.18	1.80
330	33	M	100KHz, 0.1V	0.25	1.60
470	47	M	100KHz, 0.1V	0.32	1.30
680	68	M	100KHz, 0.1V	0.54	1.10
101	100	M	100KHz, 0.1V	0.69	0.87
151	150	M	100KHz, 0.1V	0.94	0.74
221	220	M	100KHz, 0.1V	1.60	0.56
331	330	M	100KHz, 0.1V	2.15	0.50
471	470	M	100KHz, 0.1V	3.30	0.40
681	680	M	100KHz, 0.1V	4.40	0.33
102	1000	M	100KHz, 0.1V	7.00	0.29

13E9

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
1R0	1.0	M	100KHz, 0.1V	0.009	9.00
1R5	1.5	M	100KHz, 0.1V	0.010	8.00
2R2	2.2	M	100KHz, 0.1V	0.012	7.00
3R3	3.3	M	100KHz, 0.1V	0.015	6.40
4R7	4.7	M	100KHz, 0.1V	0.018	5.40
6R8	6.8	M	100KHz, 0.1V	0.027	4.60
100	10	M	100KHz, 0.1V	0.038	3.80
150	15	M	100KHz, 0.1V	0.046	3.00
220	22	M	100KHz, 0.1V	0.085	2.60
330	33	M	100KHz, 0.1V	0.100	2.00
470	47	M	100KHz, 0.1V	0.140	1.60
680	68	M	100KHz, 0.1V	0.200	1.40
101	100	M	100KHz, 0.1V	0.280	1.20
151	150	M	100KHz, 0.1V	0.400	1.00
221	220	M	100KHz, 0.1V	0.610	0.80
331	330	M	100KHz, 0.1V	1.020	0.60
471	470	M	100KHz, 0.1V	1.270	0.50
681	680	M	100KHz, 0.1V	2.020	0.40
102	1000	M	100KHz, 0.1V	3.000	0.30

LMax SMD Power Inductor



Non-Shielded Style C

13L9

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
R47	0.47	N	100KHz, 0.1V	0.008	40.0
R82	0.82	N	100KHz, 0.1V	0.009	34.7
1R2	1.2	N	100KHz, 0.1V	0.010	28.4
1R5	1.5	N	100KHz, 0.1V	0.010	25.7
2R2	2.2	N	100KHz, 0.1V	0.012	23.0
3R5	3.5	N	100KHz, 0.1V	0.015	21.0
4R7	4.7	N	100KHz, 0.1V	0.020	18.0
5R6	5.6	N	100KHz, 0.1V	0.022	16.0
6R8	6.8	N	100KHz, 0.1V	0.030	15.0
8R2	8.2	N	100KHz, 0.1V	0.033	10.0
100	10	M	100KHz, 0.1V	0.040	8.00
150	15	M	100KHz, 0.1V	0.050	7.00
220	22	M	100KHz, 0.1V	0.066	5.50
330	33	M	100KHz, 0.1V	0.080	4.00
470	47	M	100KHz, 0.1V	0.11	3.80
680	68	M	100KHz, 0.1V	0.17	3.00
101	100	M	100KHz, 0.1V	0.22	2.50
151	150	M	100KHz, 0.1V	0.34	2.00
221	220	M	100KHz, 0.1V	0.44	1.60
331	330	M	100KHz, 0.1V	0.70	1.20
471	470	M	100KHz, 0.1V	0.95	1.00
681	680	M	100KHz, 0.1V	1.20	1.00
102	1000	M	100KHz, 0.1V	2.00	0.80

1915

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
1R0	1.0	M	100KHz, 0.1V	0.009	20
2R2	2.2	M	100KHz, 0.1V	0.014	16
3R3	3.3	M	100KHz, 0.1V	0.018	14
5R6	5.6	M	100KHz, 0.1V	0.020	12
100	10	M	100KHz, 0.1V	0.031	10
150	15	M	100KHz, 0.1V	0.036	8.0
220	22	M	100KHz, 0.1V	0.047	7.0
330	33	M	100KHz, 0.1V	0.066	5.5
470	47	M	100KHz, 0.1V	0.095	4.5
680	68	M	100KHz, 0.1V	0.130	3.5
101	100	M	100KHz, 0.1V	0.190	3.0
151	150	M	100KHz, 0.1V	0.250	2.6
221	220	M	100KHz, 0.1V	0.380	2.4
331	330	M	100KHz, 0.1V	0.560	1.9
471	470	M	100KHz, 0.1V	0.850	1.4
681	680	M	100KHz, 0.1V	1.100	1.2
102	1000	M	100KHz, 0.1V	1.800	1.0

LMax SMD Power Inductor



LMXS Series – Shielded Style B

FEATURES

- Directly connected electrode on ferrite core
- Excellent property with high saturation for surface mounting

APPLICATIONS

- OA Equipment
- Notebook PCs
- LCD Monitor
- Portable Terminal Equipment
- DC/DC Converters, etc.
- Power Supply for VTR

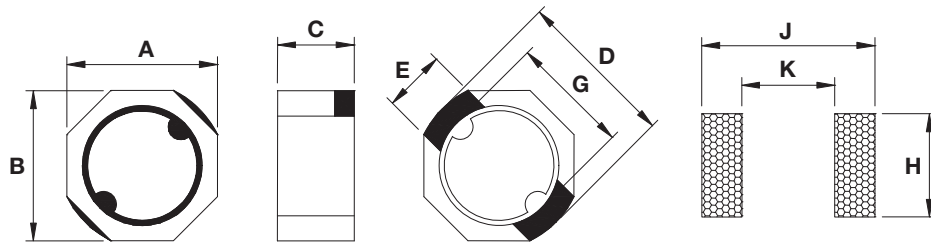
CHARACTERISTICS

- Rated DC Current: The current when the inductance becomes 30% lower than its initial value.
- Operating temperature: -40 ~ 85°C

INDUCTANCE AND RATED CURRENT RANGES

- 0404 1.0 ~ 820μH 1.60 ~ 0.060A
- 04B4 0.47 ~ 2200μH 1.84 ~ 0.035A
- 04C4 1.0 ~ 6800μH 1.90 ~ 0.017A
- 04A4 1.0 ~ 100μH 1.50 ~ 0.100A
- 0505 0.47 ~ 6800μH 2.33 ~ 0.030A
- 05C5 0.47 ~ 2500μH 4.82 ~ 0.045A
- 0606 1.0 ~ 27000μH 4.70 ~ 0.026A
- Electrical specifications at 25°C

DIMENSIONS



mm (inches)

Type	A	B	C max.	D	E	G	H	K	J
0404	3.85±0.30 (0.152±0.012)	3.85±0.30 (0.152±0.012)	1.25 (0.049)	3.9±0.20 (0.154±0.008)	1.60 (0.063)	3.20 (0.126)	1.90 (0.075)	3.00 (0.118)	4.55 (0.179)
04B4	3.85±0.30 (0.152±0.012)	3.85±0.30 (0.152±0.012)	2.00 (0.079)	3.9±0.20 (0.154±0.008)	1.60 (0.063)	3.20 (0.126)	1.90 (0.075)	3.00 (0.118)	4.55 (0.179)
04C4	3.85±0.30 (0.152±0.012)	3.85±0.30 (0.152±0.012)	3.00 (0.118)	3.9±0.20 (0.154±0.008)	1.60 (0.063)	3.20 (0.126)	1.90 (0.075)	3.00 (0.118)	4.55 (0.179)
04A4	3.85±0.30 (0.152±0.012)	3.85±0.30 (0.152±0.012)	1.50 (0.059)	4.80 max. (0.189 max.)	1.60 (0.063)	3.00 (0.118)	2.00 (0.079)	2.60 (0.102)	5.20 (0.205)
0505	5.30 max. (0.207 max.)	5.30 max. (0.207 max.)	2.00 (0.079)	5.7±0.40 (0.224±0.016)	1.60 (0.063)	4.20 (0.165)	1.90 (0.075)	3.90 (0.154)	5.70 (0.224)
05C5	5.30 max. (0.207 max.)	5.30 max. (0.207 max.)	3.00 (0.118)	5.7±0.40 (0.224±0.016)	1.60 (0.063)	4.20 (0.165)	1.90 (0.075)	3.90 (0.154)	5.70 (0.224)
0606	5.90±0.20 (0.232±0.008)	5.90±0.20 (0.232±0.008)	3.00 (0.118)	6.4±0.30 (0.252±0.012)	2.40 (0.094)	4.70 (0.185)	2.70 (0.106)	4.40 (0.173)	6.50 (0.256)

HOW TO ORDER

LM	XS	0505	M	R04	B	T	A	S
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XS = Shielded	0505 = 5x5xh 05A5 = 5x5xA(h) (h = see catalog)	M = ±20% N = ±30% P = ±40%	R04 = 0.039μH R39 = 0.390μH 3R9 = 3.900μH 390 = 39.00μH 391 = 390.0μH 392 = 3900μH	T = Sn Plate	A = Standard	S = 13" Reel	



LMax SMD Power Inductor



LMXS Series – Shielded Style B

ELECTRICAL CHARACTERISTICS

0404/04B4/04C4

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.			IDC (A) max.		
				0404	04B4	04C4	0404	04B4	04C4
R47	0.47	N	100 KHz, 0.25V	–	0.017	–	–	1.84	–
1R0	1.0	N	100 KHz, 0.25V	0.060	0.030	0.009	1.60	1.80	1.90
1R2	1.2	N	100 KHz, 0.25V	0.065	0.043	0.010	1.40	1.70	1.75
1R5	1.5	N	100 KHz, 0.25V	0.077	0.052	0.013	1.24	1.60	1.45
1R8	1.8	N	100 KHz, 0.25V	0.093	0.056	–	1.22	1.55	–
2R0	2.0	N	100 KHz, 0.25V	–	0.057	0.016	–	1.51	1.25
2R2	2.2	N	100 KHz, 0.25V	0.125	0.058	0.025	1.20	1.50	1.15
2R4	2.4	N	100 KHz, 0.25V	0.139	0.059	–	0.98	1.41	–
2R5	2.5	N	100 KHz, 0.25V	–	0.059	0.018	–	1.40	1.05
2R7	2.7	N	100 KHz, 0.25V	–	0.060	0.020	–	1.35	1.00
3R3	3.3	N	100 KHz, 0.25V	0.187	0.064	0.030	0.89	1.30	0.96
3R5	3.5	N	100 KHz, 0.25V	0.210	0.127	0.025	0.85	1.30	0.95
3R9	3.9	N	100 KHz, 0.25V	0.220	–	0.033	0.78	–	0.87
4R7	4.7	N	100 KHz, 0.25V	0.240	0.146	0.039	0.71	1.10	0.78
5R6	5.6	N	100 KHz, 0.25V	0.320	0.176	0.044	0.62	0.95	0.74
6R2	6.2	N	100 KHz, 0.25V	–	0.220	–	–	0.91	–
6R8	6.8	N	100 KHz, 0.25V	0.350	0.238	0.051	0.57	0.90	0.68
8R2	8.2	N	100 KHz, 0.25V	0.470	0.272	0.065	0.52	0.80	0.57
100	10	M	1KHz, 0.25V	0.570	0.299	0.092	0.47	0.70	0.43
120	12	M	1KHz, 0.25V	0.750	–	0.100	0.43	–	0.38
150	15	M	1KHz, 0.25V	0.810	0.472	0.113	0.38	0.61	0.33
180	18	M	1KHz, 0.25V	1.060	0.552	0.125	0.35	0.58	0.30
220	22	M	1KHz, 0.25V	1.150	0.592	0.146	0.32	0.52	0.28
270	27	M	1KHz, 0.25V	1.670	0.630	0.176	0.29	0.44	0.26
330	33	M	1KHz, 0.25V	1.840	1.075	0.214	0.28	0.43	0.23
390	39	M	1KHz, 0.25V	2.310	1.269	0.225	0.25	0.37	0.21
470	47	M	1KHz, 0.25V	2.630	1.309	0.304	0.22	0.34	0.19
500	50	M	1KHz, 0.25V	2.700	–	–	0.21	–	–
560	56	M	1KHz, 0.25V	2.860	1.960	0.324	0.20	0.29	0.170
680	68	M	1KHz, 0.25V	3.940	2.613	0.472	0.18	0.25	0.156
820	82	M	1KHz, 0.25V	4.900	2.950	0.539	0.16	0.20	0.142
101	100	M	1KHz, 0.25V	5.740	3.255	0.608	0.14	0.19	0.128
121	120	M	1KHz, 0.25V	7.310	3.350	0.757	0.13	0.15	0.116
151	150	M	1KHz, 0.25V	9.080	3.550	0.882	0.12	0.12	0.106
181	180	M	1KHz, 0.25V	9.500	4.000	1.130	0.11	0.10	0.095
221	220	M	1KHz, 0.25V	–	4.900	1.269	–	0.09	0.087
271	270	M	1KHz, 0.25V	–	–	1.570	–	–	0.080
331	330	M	1KHz, 0.25V	20.99	7.280	1.930	0.08	0.08	0.078
391	390	M	1KHz, 0.25V	–	–	2.360	–	–	0.073
471	470	M	1KHz, 0.25V	–	–	2.770	–	–	0.068
561	560	M	1KHz, 0.25V	–	–	3.520	–	–	0.065
681	680	M	1KHz, 0.25V	–	13.37	4.250	–	0.07	0.056
821	820	M	1KHz, 0.25V	54.03	–	4.830	0.06	–	0.050
102	1000	M	1KHz, 0.25V	–	19.55	6.260	–	0.065	0.047
122	1200	M	1KHz, 0.25V	–	–	7.860	–	–	0.043
152	1522	M	1KHz, 0.25V	–	36.15	9.980	–	0.038	0.039
182	1800	M	1KHz, 0.25V	–	57.62	12.17	–	0.036	0.036
222	2200	M	1KHz, 0.25V	–	84.43	–	–	0.035	–
272	2700	M	1KHz, 0.25V	–	–	16.12	–	–	0.029
332	3300	M	1KHz, 0.25V	–	–	22.04	–	–	0.026
392	3900	M	1KHz, 0.25V	–	–	27.50	–	–	0.022
472	4700	M	1KHz, 0.25V	–	–	30.80	–	–	0.020
562	5600	M	1KHz, 0.25V	–	–	35.94	–	–	0.019
682	6800	M	1KHz, 0.25V	–	–	44.01	–	–	0.017

LMax SMD Power Inductor



LMXS Series – Shielded Style B

04A4

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
1R0	1.0	N	100KHz, 0.1V	0.058	1.50
1R2	1.2	N	100KHz, 0.1V	0.070	1.40
2R2	2.2	N	100KHz, 0.1V	0.082	1.00
3R3	3.3	N	100KHz, 0.1V	0.105	0.92
3R9	3.9	N	100KHz, 0.1V	0.120	0.80
4R7	4.7	N	100KHz, 0.1V	0.150	0.76
5R6	5.6	N	100KHz, 0.1V	0.180	0.69
6R8	6.8	N	100KHz, 0.1V	0.220	0.62
8R2	8.2	N	100KHz, 0.1V	0.240	0.56
100	10	N	100KHz, 0.1V	0.255	0.50
150	15	N	100KHz, 0.1V	0.390	0.40
220	22	M	100KHz, 0.1V	0.610	0.32
330	33	M	100KHz, 0.1V	0.920	0.28
470	47	M	100KHz, 0.1V	1.130	0.20
680	68	M	100KHz, 0.1V	1.520	0.15
101	100	M	100KHz, 0.1V	2.120	0.10

LMax SMD Power Inductor



LMXS Series – Shielded Style B

0505/05C5/0606

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.			IDC (A) max.		
				0505	05C5	0606	0505	05C5	0606
R47	0.47	N	100KHz, 0.25V	0.015	0.010	–	2.33	4.82	–
1R0	1.0	N	100KHz, 0.25V	0.024	0.015	0.014	2.27	4.00	4.70
1R1	1.1	N	100KHz, 0.25V	–	0.020	–	–	3.87	–
1R2	1.2	N	100KHz, 0.25V	0.044	0.022	0.016	2.15	3.80	3.90
1R5	1.5	N	100KHz, 0.25V	–	–	0.018	–	–	3.52
1R8	1.8	N	100KHz, 0.25V	–	–	0.019	–	–	3.25
2R0	2.0	N	100KHz, 0.25V	0.046	0.027	0.022	1.90	2.92	2.95
2R2	2.2	N	100KHz, 0.25V	0.059	0.029	0.022	1.63	2.41	2.95
2R4	2.4	N	100KHz, 0.25V	0.062	0.034	0.024	1.50	2.36	2.75
2R7	2.7	N	100KHz, 0.25V	–	–	0.027	–	–	2.55
3R3	3.3	N	100KHz, 0.25V	0.073	0.040	0.030	1.34	1.95	2.45
3R9	3.9	N	100KHz, 0.25V	0.081	–	0.034	1.20	–	2.35
4R1	4.1	N	100KHz, 0.25V	0.087	0.045	–	1.14	1.87	–
4R7	4.7	N	100KHz, 0.25V	–	0.052	0.042	–	1.60	2.25
5R6	5.6	N	100KHz, 0.25V	–	–	0.048	–	–	2.05
6R8	6.8	N	100KHz, 0.25V	0.105	0.068	0.054	0.95	1.51	1.85
8R2	8.2	N	100KHz, 0.25V	0.139	0.084	0.058	0.90	1.38	1.65
100	10	M	1KHz, 0.25V	0.150	0.090	0.065	0.76	1.33	1.45
120	12	M	1KHz, 0.25V	–	0.120	0.082	–	1.06	1.35
150	15	M	1KHz, 0.25V	0.210	0.142	0.096	0.63	1.05	1.25
180	18	M	1KHz, 0.25V	–	0.192	0.110	–	0.90	1.15
220	22	M	1KHz, 0.25V	0.275	0.208	0.140	0.56	0.86	0.98
270	27	M	1KHz, 0.25V	0.452	0.222	0.170	0.48	0.75	0.90
330	33	M	1KHz, 0.25V	0.455	0.257	0.210	0.44	0.72	0.80
390	39	M	1KHz, 0.25V	–	0.320	0.240	–	0.64	0.72
470	47	M	1KHz, 0.25V	0.730	0.352	0.280	0.35	0.62	0.70
560	56	M	1KHz, 0.25V	–	0.459	0.340	–	0.53	0.66
680	68	M	1KHz, 0.25V	0.935	0.525	0.410	0.30	0.51	0.58
820	82	M	1KHz, 0.25V	1.300	0.770	0.490	0.27	0.48	0.52
101	100	M	1KHz, 0.25V	1.500	0.801	0.550	0.23	0.43	0.46
121	120	M	1KHz, 0.25V	1.910	0.850	0.700	0.22	0.34	0.42
151	150	M	1KHz, 0.25V	2.680	1.100	0.780	0.21	0.26	0.36
181	180	M	1KHz, 0.25V	3.040	1.190	0.960	0.20	0.24	0.34
221	220	M	1KHz, 0.25V	3.520	1.530	1.080	0.195	0.20	0.32
271	270	M	1KHz, 0.25V	4.380	–	1.360	0.193	–	0.28
331	330	M	1KHz, 0.25V	5.560	2.030	1.820	0.190	0.19	0.24
391	390	M	1KHz, 0.25V	–	3.000	2.050	–	0.16	0.22
471	470	M	1KHz, 0.25V	7.820	3.500	2.580	0.180	0.15	0.20
561	560	M	1KHz, 0.25V	–	4.080	3.160	–	0.14	0.18
681	680	M	1KHz, 0.25V	–	–	4.040	–	–	0.16
821	820	M	1KHz, 0.25V	15.00	–	4.900	0.120	–	0.14
102	1000	M	1KHz, 0.25V	–	–	6.000	–	–	0.13
122	1200	M	1KHz, 0.25V	–	8.500	7.600	–	0.070	0.12
152	1522	M	1KHz, 0.25V	–	10.00	9.440	–	0.065	0.10
182	1800	M	1KHz, 0.25V	–	13.15	11.70	–	0.062	0.098
222	2200	M	1KHz, 0.25V	–	19.00	13.40	–	0.050	0.095
252	2500	M	1KHz, 0.25V	–	20.00	–	–	0.045	–
272	2700	M	1KHz, 0.25V	–	–	17.30	–	–	0.086
332	3300	M	1KHz, 0.25V	–	–	22.10	–	–	0.078
392	3900	M	1KHz, 0.25V	89.88	–	24.40	0.042	–	0.074
472	4700	M	1KHz, 0.25V	101.12	–	30.10	0.038	–	0.072
562	5600	M	1KHz, 0.25V	115.00	–	33.50	0.036	–	0.066
682	6800	M	1KHz, 0.25V	152.00	–	44.40	0.030	–	0.062
822	8200	M	1KHz, 0.25V	–	–	50.70	–	–	0.048
103	10000	M	1KHz, 0.25V	–	–	65.50	–	–	0.044
123	12000	M	1KHz, 0.25V	–	–	74.20	–	–	0.038
153	15000	M	1KHz, 0.25V	–	–	92.30	–	–	0.034
183	18000	M	1KHz, 0.25V	–	–	104.1	–	–	0.030
223	22000	M	1KHz, 0.25V	–	–	154.5	–	–	0.028
273	27000	M	1KHz, 0.25V	–	–	175.4	–	–	0.026

LMax SMD Power Inductor



LMXS Series – Shielded Style C

FEATURES

- Directly connected electrode on ferrite core
- Available in magnetically shielded
- Low DC resistance
- Suitable for large current
- Available on tape and reel for auto surface mounting

APPLICATIONS

- Power Supply For VTRs
- OA Equipment.
- Notebook PCs
- Portable Communication Equipment
- DC/DC Converters, etc.

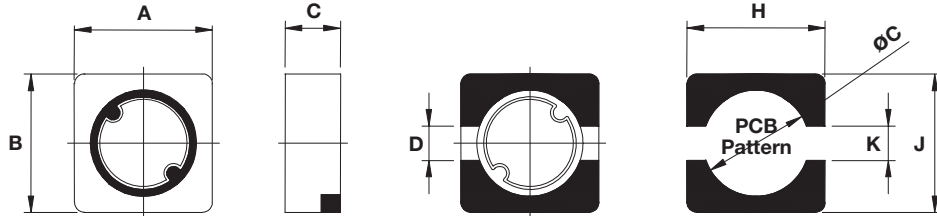
CHARACTERISTICS

- Rated Current:
0404/40B4/0505/50B5/05C5/0707/07B7/07D7: The DC current when the inductance becomes 30% lower than its initial value.
04C4/1010/10101D/101H: The DC current when the inductance becomes 35% lower than its initial value. (Ta=25°C)
- Operating temperature range: -40 ~ +105°C

INDUCTANCE AND RATED CURRENT RANGES

- | | | |
|--------|---------------|---------------|
| • 0404 | 1.0 ~ 180μH | 1.60 ~ 0.110A |
| • 04B4 | 0.47 ~ 1800μH | 1.84 ~ 0.036A |
| • 04C4 | 1.5 ~ 560μH | 1.90 ~ 0.090A |
| • 0505 | 1.2 ~ 1000μH | 1.77 ~ 0.067A |
| • 05B5 | 1.0 ~ 10000μH | 2.70 ~ 0.026A |
| • 05C5 | 1.0 ~ 2500μH | 4.00 ~ 0.045A |
| • 0707 | 1.0 ~ 820μH | 3.28 ~ 0.100A |
| • 07B7 | 1.0 ~ 1500μH | 3.52 ~ 0.095A |
| • 07D7 | 0.36 ~ 1000μH | 9.24 ~ 0.180A |
| • 101B | 1.0 ~ 2200μH | 4.10 ~ 0.100A |
| • 101D | 0.56 ~ 1000μH | 12.6 ~ 0.280A |
| • 101H | 0.56 ~ 39μH | 10.18 ~ 1.30A |
- Electrical specifications at 25°C

DIMENSIONS



mm (inches)

Type	A	B	C max.	D	H	J	K	øC
0404	3.80±0.30 (0.150±0.012)	3.80±0.30 (0.150±0.012)	1.25 (0.049)	1.20 (0.047)	4.40 (0.173)	4.40 (0.173)	1.10 (0.043)	3.00 (0.118)
04B4	3.80±0.30 (0.150±0.012)	3.80±0.30 (0.150±0.012)	2.00 (0.079)	1.20 (0.047)	4.40 (0.173)	4.40 (0.173)	1.10 (0.043)	3.00 (0.118)
04C4	3.80±0.30 (0.150±0.012)	3.80±0.30 (0.150±0.012)	3.00 (0.118)	1.20 (0.047)	4.40 (0.173)	4.40 (0.173)	1.10 (0.043)	3.00 (0.118)
0505	5.00±0.30 (0.197±0.012)	5.00±0.30 (0.197±0.012)	1.20 (0.047)	2.00 (0.079)	5.90 (0.232)	5.90 (0.232)	1.90 (0.075)	4.20 (0.165)
05B5	5.00±0.30 (0.197±0.012)	5.00±0.30 (0.197±0.012)	2.00 (0.079)	2.00 (0.079)	5.90 (0.232)	5.90 (0.232)	1.90 (0.075)	4.20 (0.165)
05C5	5.00±0.30 (0.197±0.012)	5.00±0.30 (0.197±0.012)	3.00 (0.118)	2.00 (0.079)	5.90 (0.232)	5.90 (0.232)	1.90 (0.075)	4.20 (0.165)
0707	6.90±0.30 (0.272±0.012)	6.90±0.30 (0.272±0.012)	1.50 (0.059)	2.50 (0.098)	7.30 (0.287)	7.30 (0.287)	2.00 (0.079)	5.30 (0.209)
07B7	6.90±0.30 (0.272±0.012)	6.90±0.30 (0.272±0.012)	1.90 (0.075)	2.50 (0.098)	7.30 (0.287)	7.30 (0.287)	2.00 (0.079)	5.30 (0.209)
07D7	7.00±0.40 (0.276±0.016)	7.00±0.40 (0.276±0.016)	4.30 (0.169)	1.80 (0.071)	8.00 (0.315)	8.00 (0.315)	1.60 (0.063)	6.00 (0.236)
101B	10.0±0.30 (0.394±0.012)	10.0±0.30 (0.394±0.012)	1.50 (0.059)	2.50 (0.098)	10.6 (0.315)	10.6 (0.315)	2.30 (0.091)	8.00 (0.315)
101D	10.0±0.30 (0.394±0.012)	10.0±0.30 (0.394±0.012)	4.00 (0.157)	2.50 (0.098)	10.6 (0.315)	10.6 (0.315)	2.30 (0.091)	8.00 (0.315)
101H	10.0±0.30 (0.394±0.012)	10.0±0.30 (0.394±0.012)	6.70 (0.264)	2.50 (0.098)	10.6 (0.315)	10.6 (0.315)	2.30 (0.091)	8.00 (0.315)



LMax SMD Power Inductor



LMXS Series – Shielded Style C

HOW TO ORDER

LM	XS	0707	M	R04	C	T	A	S
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XS = Shielded	0707 = 7x7xh 07D7 = 7x7xD(h) 101B = 10x10xB(h) (h = see catalog)	M = ±20% N = ±30%	R04 = 0.039µH R39 = 0.390µH 3R9 = 3.900µH 390 = 39.00µH 391 = 390.0µH 392 = 3900µH		T = Sn Plate	A = Standard	S = 13" Reel

ELECTRICAL CHARACTERISTICS

0404/04B4/04C4

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.			IDC (A) max.		
				0404	04B4	04C4	0404	04B4	04C4
R47	0.47	N	100KHz, 0.25V	–	0.017	–	–	1.840	–
1R0	1.0	M, N	100KHz, 0.25V	0.060	0.030	–	1.600	1.800	–
1R2	1.2	M, N	100KHz, 0.25V	0.065	0.043	–	1.400	1.700	–
1R5	1.5	M, N	100KHz, 0.25V	0.077	0.052	0.015	1.240	1.600	1.900
1R8	1.8	M, N	100KHz, 0.25V	0.093	–	0.018	1.220	–	1.760
2R2	2.2	M, N	100KHz, 0.25V	0.125	0.058	0.020	1.200	1.500	1.670
2R4	2.4	M, N	100KHz, 0.25V	0.139	–	0.022	0.980	–	1.650
2R5	2.5	M, N	100KHz, 0.25V	–	0.059	–	–	1.400	–
2R7	2.7	M, N	100KHz, 0.25V	–	0.059	0.028	–	1.400	1.450
3R3	3.3	M, N	100KHz, 0.25V	0.187	0.064	0.032	0.890	1.300	1.440
3R5	3.5	M, N	100KHz, 0.25V	0.210	0.127	–	0.850	1.300	–
3R6	3.6	M, N	100KHz, 0.25V	–	–	0.035	–	–	1.430
3R9	3.9	M, N	100KHz, 0.25V	0.220	0.135	0.037	0.780	1.120	1.320
4R3	4.3	M, N	100KHz, 0.25V	–	–	0.043	–	–	1.000
4R7	4.7	M, N	100KHz, 0.25V	0.240	0.146	0.045	0.710	1.100	0.970
5R1	5.1	M, N	100KHz, 0.25V	–	–	0.046	–	–	0.940
5R6	5.6	M, N	100KHz, 0.25V	0.320	0.176	–	0.620	0.950	–
6R2	6.2	M, N	100KHz, 0.25V	–	0.220	–	–	0.910	–
6R8	6.8	M, N	100KHz, 0.25V	0.350	0.238	0.065	0.570	0.900	0.870
7R5	7.5	M, N	100KHz, 0.25V	–	–	0.079	–	–	0.820
8R2	8.2	M, N	100KHz, 0.25V	0.470	0.272	0.071	0.520	0.800	0.770
100	10	M	1KHz, 0.25V	0.570	0.299	0.105	0.470	0.700	0.700
120	12	M	1KHz, 0.25V	0.750	–	0.119	0.430	–	0.670
150	15	M	1KHz, 0.25V	0.810	0.472	0.140	0.380	0.610	0.540
180	18	M	1KHz, 0.25V	1.060	–	0.175	0.350	–	0.500
220	22	M	1KHz, 0.25V	1.150	0.592	0.201	0.320	0.520	0.480
270	27	M	1KHz, 0.25V	1.670	0.630	0.227	0.290	0.440	0.400
330	33	M	1KHz, 0.25V	1.840	1.075	0.287	0.280	0.430	0.350
390	39	M	1KHz, 0.25V	2.310	–	0.341	0.250	–	0.330
470	47	M	1KHz, 0.25V	2.630	1.309	0.430	0.220	0.340	0.320
560	56	M	1KHz, 0.25V	2.860	–	0.471	0.200	–	0.300
680	68	M	1KHz, 0.25V	3.940	2.613	0.532	0.180	0.250	0.270
820	82	M	1KHz, 0.25V	4.900	2.950	0.675	0.160	0.200	0.230
101	100	M	1KHz, 0.25V	5.740	3.255	0.850	0.140	0.190	0.210
121	120	M	1KHz, 0.25V	7.310	–	1.110	0.130	–	0.200
151	150	M	1KHz, 0.25V	9.080	3.550	1.230	0.120	0.120	0.170
181	180	M	1KHz, 0.25V	9.500	–	1.560	0.110	–	0.150
221	220	M	1KHz, 0.25V	–	4.900	1.800	–	0.090	0.140
271	270	M	1KHz, 0.25V	–	–	2.200	–	–	0.130
331	330	M	1KHz, 0.25V	–	7.280	2.640	–	0.080	0.120
471	470	M	1KHz, 0.25V	–	–	3.820	–	–	0.100
561	560	M	1KHz, 0.25V	–	–	4.620	–	–	0.090
681	680	M	1KHz, 0.25V	–	13.370	–	–	0.070	–
102	1000	M	1KHz, 0.25V	–	19.550	–	–	0.065	–
152	1500	M	1KHz, 0.25V	–	36.150	–	–	0.038	–
182	1800	M	1KHz, 0.25V	–	57.620	–	–	0.036	–



LMax SMD Power Inductor



LMXS Series – Shielded Style C

0505/05B5/05C5

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.			IDC (A) max.		
				0505	05B5	05C5	0505	05B5	05C5
1R0	1.0	M, N	100KHz, 0.25V	–	0.030	0.015	–	2.700	4.000
1R1	1.1	M, N	100KHz, 0.25V	–	–	0.020	–	–	3.870
1R2	1.2	M, N	100KHz, 0.25V	0.050	0.044	0.022	1.770	2.150	3.800
1R5	1.5	M, N	100KHz, 0.25V	0.069	–	–	1.710	–	–
2R0	2.0	M, N	100KHz, 0.25V	0.100	0.046	0.027	1.440	1.900	2.920
2R2	2.2	M, N	100KHz, 0.25V	0.110	0.059	0.029	1.400	1.630	2.410
3R3	3.3	M, N	100KHz, 0.25V	0.140	0.062	0.034	1.140	1.500	2.360
3R5	3.5	M, N	100KHz, 0.25V	0.150	0.073	–	1.100	1.340	–
4R1	4.1	M, N	100KHz, 0.25V	–	0.081	–	–	1.200	–
4R7	4.7	M, N	100KHz, 0.25V	0.190	0.087	0.045	0.950	1.140	1.870
5R6	5.6	M, N	100KHz, 0.25V	0.193	0.093	0.052	0.900	1.000	1.600
6R2	6.2	M, N	100KHz, 0.25V	0.200	–	–	0.840	–	–
6R8	6.8	M, N	100KHz, 0.25V	0.200	0.105	0.068	0.800	0.950	1.510
8R2	8.2	M, N	100KHz, 0.25V	0.300	0.139	0.084	0.750	0.900	1.380
100	10	M	1KHz, 0.25V	0.350	0.150	0.090	0.660	0.760	1.330
120	12	M	1KHz, 0.25V	0.430	0.170	–	0.620	0.660	–
150	15	M	1KHz, 0.25V	0.440	0.210	0.142	0.590	0.630	1.050
180	18	M	1KHz, 0.25V	0.750	–	–	0.570	–	–
220	22	M	1KHz, 0.25V	0.820	0.275	0.208	0.560	0.560	0.860
270	27	M	1KHz, 0.25V	–	–	0.222	–	–	0.750
330	33	M	1KHz, 0.25V	1.160	0.455	0.257	0.430	0.440	0.720
390	39	M	1KHz, 0.25V	–	0.540	–	–	0.380	–
470	47	M	1KHz, 0.25V	1.590	0.730	0.352	0.340	0.350	0.620
560	56	M	1KHz, 0.25V	–	0.800	–	–	0.320	–
680	68	M	1KHz, 0.25V	2.140	0.935	0.525	0.290	0.300	0.510
820	82	M	1KHz, 0.25V	2.720	–	–	0.250	–	–
101	100	M	1KHz, 0.25V	3.550	1.500	0.801	0.220	0.230	0.430
121	120	M	1KHz, 0.25V	4.890	1.910	0.850	0.200	0.220	0.340
151	150	M	1KHz, 0.25V	5.200	2.680	1.100	0.190	0.210	0.260
181	180	M	1KHz, 0.25V	7.550	3.045	1.190	0.170	0.200	0.240
221	220	M	1KHz, 0.25V	7.760	3.520	1.530	0.150	0.195	0.200
271	270	M	1KHz, 0.25V	10.13	4.380	–	0.145	0.193	–
331	330	M	1KHz, 0.25V	11.23	5.560	2.030	0.140	0.190	0.190
391	390	M	1KHz, 0.25V	–	–	3.000	–	–	0.160
471	470	M	1KHz, 0.25V	16.86	7.820	3.500	0.098	0.180	0.150
561	560	M	1KHz, 0.25V	22.78	9.790	4.450	0.097	0.170	0.140
681	680	M	1KHz, 0.25V	24.87	–	–	0.085	–	–
821	820	M	1KHz, 0.25V	28.09	15.00	–	0.077	0.120	–
102	1000	M	1KHz, 0.25V	45.07	–	–	0.067	–	–
122	1200	M	1KHz, 0.25V	–	–	8.500	–	–	0.070
152	1500	M	1KHz, 0.25V	–	–	10.00	–	–	0.065
182	1800	M	1KHz, 0.25V	–	–	13.15	–	–	0.062
222	2200	M	1KHz, 0.25V	–	–	19.00	–	–	0.050
252	2500	M	1KHz, 0.25V	–	–	20.00	–	–	0.045
392	3900	M	1KHz, 0.25V	–	89.880	–	–	0.042	–
472	4700	M	1KHz, 0.25V	–	101.12	–	–	0.038	–
562	5600	M	1KHz, 0.25V	–	115.00	–	–	0.036	–
682	6800	M	1KHz, 0.25V	–	152.00	–	–	0.030	–
103	10000	M	1KHz, 0.25V	–	201.16	–	–	0.026	–

LMax SMD Power Inductor



LMXS Series – Shielded Style C

0707/07B7/07D7

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.			IDC (A) max.		
				0707	07B7	07D7	0707	07B7	07D7
R36	0.36	N	100KHz, 0.25V	–	–	0.005	–	–	9.240
R56	0.56	N	100KHz, 0.25V	–	–	0.006	–	–	8.500
R80	0.80	N	100KHz, 0.25V	–	–	0.009	–	–	5.800
1R0	1.0	M, N	100KHz, 0.25V	0.050	0.035	0.040	3.280	3.520	2.100
1R2	1.2	M, N	100KHz, 0.25V	–	–	0.040	–	–	2.100
1R5	1.5	M, N	100KHz, 0.25V	0.067	–	0.040	2.530	–	2.100
1R8	1.8	M, N	100KHz, 0.25V	–	0.052	0.040	–	3.050	2.090
2R0	2.0	M, N	100KHz, 0.25V	0.085	–	–	2.060	–	–
2R2	2.2	M, N	100KHz, 0.25V	–	0.071	0.0410	–	2.500	2.080
2R5	2.5	M, N	100KHz, 0.25V	–	–	0.0410	–	–	2.080
2R7	2.7	M, N	100KHz, 0.25V	0.110	–	–	1.870	–	–
3R0	3.0	M, N	100KHz, 0.25V	–	0.086	–	–	2.150	–
3R3	3.3	M, N	100KHz, 0.25V	0.130	–	0.0410	1.580	–	2.070
3R9	3.9	M, N	100KHz, 0.25V	0.160	0.110	–	1.460	2.010	–
4R3	4.3	M, N	100KHz, 0.25V	–	–	0.041	–	–	2.060
4R7	4.7	M, N	100KHz, 0.25V	0.200	0.130	0.042	1.300	1.950	2.050
5R6	5.6	M, N	100KHz, 0.25V	0.230	0.150	0.043	1.220	1.820	2.040
6R8	6.8	M, N	100KHz, 0.25V	0.280	0.170	0.044	1.160	1.670	2.040
8R2	8.2	M, N	100KHz, 0.25V	0.310	0.190	–	1.130	1.520	–
100	10	M	1KHz, 0.25V	0.330	0.240	0.049	1.030	1.390	2.000
120	12	M	1KHz, 0.25V	0.460	0.290	0.058	0.870	1.220	1.900
150	15	M	1KHz, 0.25V	0.530	0.380	0.081	0.800	1.090	1.600
180	18	M	1KHz, 0.25V	0.620	0.440	0.091	0.730	1.030	1.480
220	22	M	1KHz, 0.25V	0.700	0.490	0.110	0.710	0.950	1.320
270	27	M	1KHz, 0.25V	0.910	0.640	0.150	0.650	0.840	1.260
330	33	M	1KHz, 0.25V	1.150	0.740	0.170	0.570	0.800	1.100
390	39	M	1KHz, 0.25V	1.380	0.910	0.230	0.500	0.750	1.050
470	47	M	1KHz, 0.25V	1.540	1.020	0.260	0.480	0.690	1.000
560	56	M	1KHz, 0.25V	1.860	1.260	0.350	0.450	0.630	0.850
680	68	M	1KHz, 0.25V	2.320	1.570	0.380	0.410	0.560	0.780
820	82	M	1KHz, 0.25V	2.540	1.890	0.430	0.370	0.510	0.740
101	100	M	1KHz, 0.25V	3.20	2.12	0.61	0.32	0.47	0.70
121	120	M	1KHz, 0.25V	4.24	2.55	0.66	0.29	0.42	0.60
151	150	M	1KHz, 0.25V	4.77	3.37	0.88	0.27	0.37	0.52
181	180	M	1KHz, 0.25V	6.04	3.73	0.98	0.24	0.32	0.46
221	220	M	1KHz, 0.25V	7.95	4.54	1.17	0.22	0.29	0.40
271	270	M	1KHz, 0.25V	10.51	5.97	1.64	0.19	0.25	0.36
331	330	M	1KHz, 0.25V	11.63	7.74	1.86	0.18	0.23	0.32
391	390	M	1KHz, 0.25V	12.97	9.92	2.85	0.16	0.21	0.28
471	470	M	1KHz, 0.25V	16.87	12.95	3.01	0.15	0.18	0.26
561	560	M	1KHz, 0.25V	22.3	14.36	3.62	0.13	0.16	0.24
681	680	M	1KHz, 0.25V	25.11	18.52	4.63	0.12	0.14	0.22
821	820	M	1KHz, 0.25V	28.41	20.23	5.20	0.10	0.13	0.20
102	1000	M	1KHz, 0.25V	–	28.25	6.00	–	0.11	0.18
122	1200	M	1KHz, 0.25V	–	31.85	–	–	0.10	–
152	1500	M	1KHz, 0.25V	–	36.72	–	–	0.095	–

LMax SMD Power Inductor



LMXS Series – Shielded Style C

101B/101D/101H

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.			IDC (A) max.		
				101B	101D	101H	101B	101D	101H
R56	0.56	N	100KHz, 0.25V	–	0.006	0.006	–	12.60	10.18
R80	0.80	N	100KHz, 0.25V	–	0.006	–	–	12.00	–
1R0	1.0	M, N	100KHz, 0.25V	0.038	0.008	0.007	4.10	10.30	9.52
1R5	1.5	M, N	100KHz, 0.25V	–	0.0081	0.008	–	10.00	9.50
1R6	1.6	M, N	100KHz, 0.25V	–	–	0.008	–	–	9.50
1R8	1.8	M, N	100KHz, 0.25V	0.047	–	0.008	3.50	–	6.30
2R2	2.2	M, N	100KHz, 0.25V	–	0.01	0.009	–	8.00	5.82
2R4	2.4	M, N	100KHz, 0.25V	–	–	0.009	–	–	5.71
2R5	2.5	M, N	100KHz, 0.25V	–	0.011	–	–	7.50	–
2R7	2.7	M, N	100KHz, 0.25V	0.059	0.012	–	3.40	7.00	–
3R3	3.3	M, N	100KHz, 0.25V	0.063	0.012	0.010	3.00	6.60	5.18
3R8	3.8	M, N	100KHz, 0.25V	–	0.013	0.010	–	6.00	5.09
4R3	4.3	M, N	100KHz, 0.25V	–	–	0.011	–	–	5.08
4R7	4.7	M, N	100KHz, 0.25V	0.086	0.022	0.015	2.60	5.70	5.00
5R2	5.2	M, N	100KHz, 0.25V	–	0.022	0.016	–	5.50	3.25
5R6	5.6	M, N	100KHz, 0.25V	0.098	0.024	0.016	2.20	5.15	3.2
6R8	6.8	M, N	100KHz, 0.25V	0.110	0.026	0.017	2.10	4.90	2.80
7R0	7.0	M, N	100KHz, 0.25V	–	0.027	–	–	4.80	–
8R2	8.2	M, N	100KHz, 0.25V	0.130	0.032	–	1.90	4.45	–
100	10	M	1KHz, 0.25V	0.160	0.035	0.028	1.80	4.40	2.15
120	12	M	1KHz, 0.25V	0.190	0.040	–	1.48	3.65	–
150	15	M	1KHz, 0.25V	0.250	0.050	–	1.25	3.6	–
180	18	M	1KHz, 0.25V	0.290	0.060	–	1.22	2.95	–
220	22	M	1KHz, 0.25V	0.300	0.073	–	1.20	2.90	–
250	25	M	1KHz, 0.25V	–	0.080	–	–	2.60	–
270	27	M	1KHz, 0.25V	0.400	–	–	0.93	–	–
330	33	M	1KHz, 0.25V	0.460	0.093	–	0.89	2.30	–
390	39	M	1KHz, 0.25V	0.570	–	0.050	0.81	–	1.30
470	47	M	1KHz, 0.25V	0.630	0.128	–	0.80	2.10	–
560	56	M	1KHz, 0.25V	0.780	–	–	0.72	–	–
680	68	M	1KHz, 0.25V	0.990	0.213	–	0.64	1.50	–
820	82	M	1KHz, 0.25V	1.170	–	–	0.61	–	–
101	100	M	1KHz, 0.25V	1.30	0.304	–	0.60	1.35	–
121	120	M	1KHz, 0.25V	1.63	0.340	–	0.51	1.18	–
151	150	M	1KHz, 0.25V	2.02	0.506	–	0.43	1.15	–
181	180	M	1KHz, 0.25V	2.29	0.530	–	0.41	0.98	–
221	220	M	1KHz, 0.25V	2.96	0.756	–	0.36	0.92	–
271	270	M	1KHz, 0.25V	3.57	0.782	–	0.33	0.72	–
331	330	M	1KHz, 0.25V	4.50	1.090	–	0.30	0.70	–
391	390	M	1KHz, 0.25V	–	1.102	–	–	0.55	–
471	470	M	1KHz, 0.25V	6.16	1.292	–	0.25	0.45	–
561	560	M	1KHz, 0.25V	7.63	1.572	–	0.24	0.40	–
681	680	M	1KHz, 0.25V	9.06	1.882	–	0.21	0.35	–
821	820	M	1KHz, 0.25V	11.30	2.382	–	0.19	0.32	–
102	1000	M	1KHz, 0.25V	12.80	2.692	–	0.17	0.28	–
122	1200	M	1KHz, 0.25V	16.50	–	–	0.16	–	–
152	1500	M	1KHz, 0.25V	21.30	–	–	0.14	–	–
182	1800	M	1KHz, 0.25V	27.80	–	–	0.12	–	–
222	2200	M	1KHz, 0.25V	32.00	–	–	0.10	–	–

LMax SMD Power Inductor



LMXS Series – Shielded Style D

FEATURES

- Magnetically shielded against radiation
- 0704 can help achieve longer battery life significantly in handheld communication devices.
- 1309 / 1915 designed for the higher current requirements of portable computers.
- 0704 has ceramic base with gold-plating
- 1309 / 1915 has LCP plastic base

APPLICATIONS

- Portable Telephones
- Personal Computers
- Other Various Electronic Appliances
- DC/DC Converters, etc.

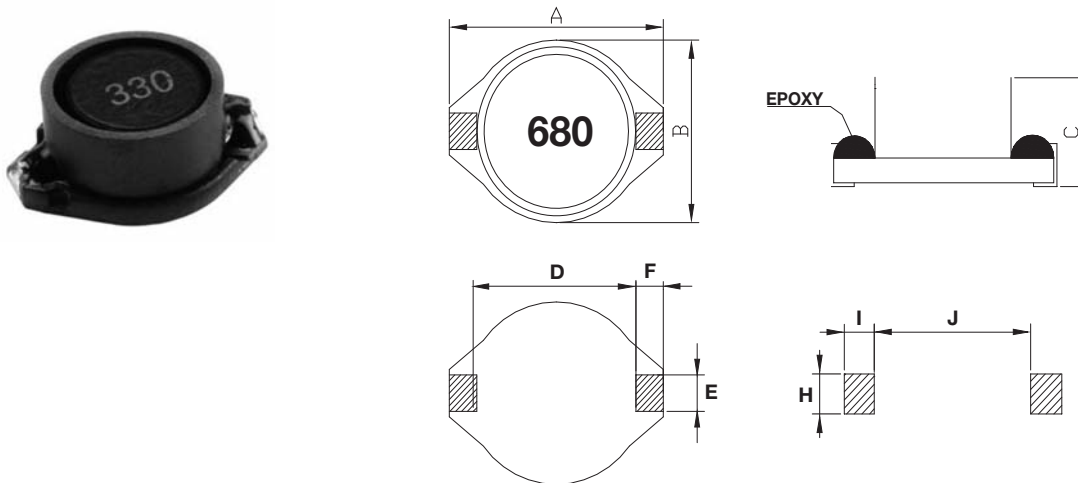
CHARACTERISTICS

- Saturation Rated Current (IDC): The DC current when the inductance becomes 10% lower than its initial value. (Ta=25°C)
- Temperature Rise Current (I rms): The actual current when temperature of coil becomes Δ40°C. (Ta=25°C)
- Operating temperature range: -40 ~ 85°C

INDUCTANCE AND RATED CURRENT RANGES

- 0704 1.0 ~ 10000pH 3.0 ~ 0.02A
- 1309 1.0 ~ 1000pH 5.0 ~ 0.17A
- 1915 10 ~ 1000pH 3.9 ~ 0.53A
- Electrical specifications at 25°C

DIMENSIONS



mm (inches)

Type	A max.	B max.	C max.	D	E	F	H	I	J
0704	6.60 (0.260)	4.45 (0.175)	2.92 (0.115)	4.32 (0.170)	1.27 (0.050)	1.02 (0.040)	3.56 (0.140)	1.40 (0.055)	4.06 (0.160)
1309	12.95 (0.510)	9.40 (0.370)	5.21 (0.205)	7.62 (0.300)	2.54 (0.100)	2.54 (0.100)	2.79 (0.110)	2.92 (0.115)	7.37 (0.290)
1915	18.54 (0.730)	15.24 (0.600)	7.62 (0.300)	12.70 (0.500)	2.54 (0.100)	2.54 (0.100)	2.79 (0.110)	2.92 (0.115)	12.45 (0.490)

HOW TO ORDER

LM	XS	0704	M	R04	D	T	A	S
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XS = Shielded	0704 = 7x4xh 1309 = 13x9xh (h = see catalog)	M = ±20%	R04 = 0.039μH R39 = 0.390μH 3R9 = 3.900μH 390 = 39.00μH 391 = 390.0μH 392 = 3900μH	T = Sn Plate	A = Standard	S = 13" Reel	



LMax SMD Power Inductor



LMXS Series – Shielded Style D

ELECTRICAL CHARACTERISTICS

0704

Codes	L (μ H)	Tolerance	Test Condition		DCR (Ω) max.	SRF ref (MHz)	Q min.	I rms (A) max.
			L	Q				
1R0	1.0	M	100KHz, 0.1V	200KHz, 0.1V	0.040	250	30	3.00
1R5	1.5	M	100KHz, 0.1V	200KHz, 0.1V	0.045	125	30	2.30
2R2	2.2	M	100KHz, 0.1V	200KHz, 0.1V	0.050	120	40	1.80
3R3	3.3	M	100KHz, 0.1V	200KHz, 0.1V	0.055	120	40	1.60
4R7	4.7	M	100KHz, 0.1V	200KHz, 0.1V	0.060	105	40	1.40
6R8	6.8	M	100KHz, 0.1V	200KHz, 0.1V	0.065	50	40	1.20
100	10	M	100KHz, 0.1V	200KHz, 0.1V	0.075	38	40	1.00
150	15	M	100KHz, 0.1V	100KHz, 0.1V	0.090	33	40	0.80
220	22	M	100KHz, 0.1V	100KHz, 0.1V	0.11	25	40	0.70
330	33	M	100KHz, 0.1V	100KHz, 0.1V	0.19	20	40	0.60
470	47	M	100KHz, 0.1V	100KHz, 0.1V	0.23	20	40	0.50
680	68	M	100KHz, 0.1V	100KHz, 0.1V	0.29	15	40	0.40
101	100	M	100KHz, 0.1V	100KHz, 0.1V	0.48	10	40	0.30
151	150	M	100KHz, 0.1V	100KHz, 0.1V	0.59	9	40	0.26
221	220	M	100KHz, 0.1V	100KHz, 0.1V	0.90	6	40	0.22
331	330	M	100KHz, 0.1V	100KHz, 0.1V	1.40	5	40	0.20
471	470	M	100KHz, 0.1V	100KHz, 0.1V	1.80	4	40	0.19
681	680	M	100KHz, 0.1V	100KHz, 0.1V	2.20	3	40	0.18
102	1000	M	100KHz, 0.1V	100KHz, 0.1V	3.40	2	40	0.15
152	1500	M	100KHz, 0.1V	100KHz, 0.1V	4.20	2	50	0.12
222	2200	M	100KHz, 0.1V	100KHz, 0.1V	8.50	2	50	0.10
332	3300	M	100KHz, 0.1V	100KHz, 0.1V	11.0	1	50	0.08
472	4700	M	100KHz, 0.1V	100KHz, 0.1V	13.9	1	50	0.06
682	6800	M	100KHz, 0.1V	100KHz, 0.1V	25.0	1	50	0.04
103	10000	M	100KHz, 0.1V	100KHz, 0.1V	32.8	0.8	50	0.02

1309

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.	SRF ref (MHz)	IDC (A) max	I rms (A) max.
1R0	1.0	M	100KHz, 0.1V	0.021	140	5.6	5.0
1R5	1.5	M	100KHz, 0.1V	0.022	120	5.2	4.5
2R2	2.2	M	100KHz, 0.1V	0.032	80	5.0	3.8
3R3	3.3	M	100KHz, 0.1V	0.039	70	3.9	3.3
4R7	4.7	M	100KHz, 0.1V	0.054	40	3.2	2.7
6R8	6.8	M	100KHz, 0.1V	0.075	38	2.8	2.2
100	10	M	100KHz, 0.1V	0.101	35	2.4	2.0
150	15	M	100KHz, 0.1V	0.150	25	2.0	1.5
220	22	M	100KHz, 0.1V	0.207	19	1.6	1.3
330	33	M	100KHz, 0.1V	0.334	15	1.4	1.1
470	47	M	100KHz, 0.1V	0.472	13	1.0	0.8
680	68	M	100KHz, 0.1V	0.660	10	0.9	0.7
101	100	M	100KHz, 0.1V	1.110	7	0.8	0.6
151	150	M	100KHz, 0.1V	1.550	6	0.6	0.5
221	220	M	100KHz, 0.1V	2.000	5	0.5	0.37
102	1000	M	100KHz, 0.1V	8.300	2	0.32	0.17

LMax SMD Power Inductor



LMXS Series – Shielded Style D

1915

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.	SRF ref (MHz)	IDC (A) max.	I rms (A) max.
100	10	M	100KHz, 0.1V	0.040	30	8.0	3.9
150	15	M	100KHz, 0.1V	0.048	20	7.00	3.4
220	22	M	100KHz, 0.1V	0.059	18	6.00	3.1
330	33	M	100KHz, 0.1V	0.075	14	5.00	2.8
470	47	M	100KHz, 0.1V	0.097	10	4.00	2.4
680	68	M	100KHz, 0.1V	0.138	9.0	3.00	2.0
101	100	M	100KHz, 0.1V	0.207	7.0	2.40	1.7
151	150	M	100KHz, 0.1V	0.293	6.0	2.10	1.3
221	220	M	100KHz, 0.1V	0.470	5.0	1.90	1.1
331	330	M	100KHz, 0.1V	0.780	4.0	1.10	0.86
471	470	M	100KHz, 0.1V	1.080	3.0	1.10	0.73
681	680	M	100KHz, 0.1V	1.400	2.5	0.96	0.64
102	1000	M	100KHz, 0.1V	2.010	2.0	0.80	0.53

LMax SMD Power Inductor



LMXS Series – Shielded Style J

FEATURES

- Directly connected electrode on ferrite core
- High power, High saturation inductors
- Ideal inductors for DC/DC converters
- Magnetically shielded against radiation
- Available on tape and reel for automatic surface mounting

APPLICATIONS

- Power Supply for VTRs
- LCD Televisions
- Notebook PCs
- Portable Communication
- DC/DC Converters, etc.

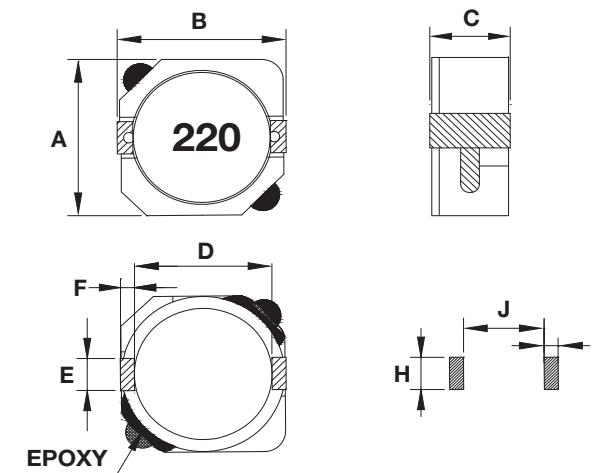
CHARACTERISTICS

- Rated DC current: The current when the inductance becomes 35% lower than its initial value or the actual current when the temperature of coil increases to $\Delta T=40^{\circ}\text{C}$. The smaller one is defined as Rated DC Current. ($T_a=25^{\circ}\text{C}$)
- Operating temperature range: $-40 \sim 85^{\circ}\text{C}$

INDUCTANCE AND RATED CURRENT RANGES

- 0606 2.5 ~ 100 μH 2.60 ~ 0.40A
- 1010 10 ~ 150 μH 2.70 ~ 0.70A
- 101D 1.3 ~ 330 μH 10.0 ~ 0.70A
- 101E 1.5 ~ 1000 μH 10.5 ~ 0.35A
- Electrical specifications at 25°C

DIMENSIONS



mm (inches)

Type	A max.	B max.	C max.	D	E	F	H	I	J
0606	6.20 (0.244)	6.30 (0.248)	3.00 (0.118)	4.70 (0.185)	2.00 (0.079)	0.60 (0.024)	2.60 (0.102)	1.00 (0.039)	4.60 (0.181)
1010	10.3 (0.406)	10.4 (0.409)	3.10 (0.122)	7.70 (0.303)	3.00 (0.118)	1.20 (0.047)	3.20 (0.126)	1.60 (0.063)	7.30 (0.287)
101D	10.3 (0.406)	10.4 (0.409)	4.00 (0.157)	7.70 (0.303)	3.00 (0.118)	1.20 (0.047)	3.20 (0.126)	1.60 (0.063)	7.30 (0.287)
101E	10.3 (0.406)	10.4 (0.409)	5.00 (0.197)	7.70 (0.303)	3.00 (0.118)	1.20 (0.047)	3.20 (0.126)	1.60 (0.063)	7.30 (0.287)

HOW TO ORDER

LM	XS	0704	N	R04	J	T	A	S
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XS = Shielded	0606 = 6x6xh 1010 = 10x10xh 101D = 10x10xD(h) (h = see catalog)	N = $\pm 30\%$	R04 = 0.039 μH R39 = 0.390 μH 3R9 = 3.900 μH 390 = 39.00 μH 391 = 390.0 μH 392 = 3900 μH		T = Sn Plate	A = Standard	S = 13" Reel

LMax SMD Power Inductor



LMXS Series – Shielded Style J

0606/1010/101D/101E

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.				IDC (A) max.			
				0606	1010	101D	101E	0606	1010	101D	101E
1R3	1.3	N	100KHz, 0.1V	–	–	8	–	–	–	10.0	–
1R5	1.5	N	100KHz, 0.1V	–	–	8	6	–	–	10.0	10.5
2R2	2.2	N	100KHz, 0.1V	–	–	11	7	–	–	8.00	9.25
2R5	2.5	N	100KHz, 0.1V	17.6	–	12	–	2.60	–	7.50	–
3R3	3.3	N	100KHz, 0.1V	20.3	–	13	10	2.30	–	6.50	7.80
3R8	3.8	N	100KHz, 0.1V	–	–	17	–	–	–	6.00	–
4R0	4.0	N	100KHz, 0.1V	27.0	–	–	–	2.10	–	–	–
4R7	4.7	N	100KHz, 0.1V	–	–	21	12	–	–	5.70	6.40
5R0	5.0	N	100KHz, 0.1V	31.1	–	–	–	1.85	–	–	–
5R2	5.2	N	100KHz, 0.1V	–	–	22	–	–	–	5.50	–
5R6	5.6	N	100KHz, 0.1V	–	–	25	–	–	–	5.20	–
6R0	6.0	N	100KHz, 0.1V	41.9	–	–	–	1.70	–	–	–
6R8	6.8	N	100KHz, 0.1V	–	–	26	18	–	–	4.90	5.40
7R0	7.0	N	100KHz, 0.1V	–	–	27	–	–	–	4.80	–
8R0	8.0	N	100KHz, 0.1V	49.9	–	–	–	1.50	–	–	–
8R2	8.2	N	100KHz, 0.1V	–	–	–	20	–	–	–	4.85
100	10	N	100KHz, 0.1V	54.0	58	35	26	1.30	2.70	4.40	3.45
120	12	N	100KHz, 0.1V	71.6	72	–	33	1.20	2.25	–	3.40
150	15	N	100KHz, 0.1V	82.4	86	50	41	1.10	2.22	3.60	2.83
180	18	N	100KHz, 0.1V	101.5	116	–	46	1.05	1.90	–	2.62
220	22	N	100KHz, 0.1V	119.0	145	73	61	0.95	1.78	2.90	2.44
270	27	N	100KHz, 0.1V	146.0	176	83	69	0.85	1.63	2.80	2.24
330	33	N	100KHz, 0.1V	182.5	213	93	84	0.76	1.46	2.30	1.88
390	39	N	100KHz, 0.1V	209.5	270	–	106	0.68	1.32	–	1.70
470	47	N	100KHz, 0.1V	229.5	299	128	130	0.60	1.18	2.10	1.56
560	56	N	100KHz, 0.1V	305.0	335	–	149	0.55	1.10	–	1.39
680	68	N	100KHz, 0.1V	351.0	451	213	201	0.48	1.04	1.50	1.36
820	82	N	100KHz, 0.1V	418.5	513	–	227	0.45	0.94	–	1.20
101	100	N	100KHz, 0.1V	520.0	700	304	253	0.40	0.84	1.35	1.09
121	120	N	100KHz, 0.1V	–	765	–	303	–	0.76	–	1.00
151	150	N	100KHz, 0.1V	–	876	506	370	–	0.70	1.15	0.91
181	180	N	100KHz, 0.1V	–	–	631	419	–	–	1.03	0.84
221	220	N	100KHz, 0.1V	–	–	756	500	–	–	0.92	0.75
271	270	N	100KHz, 0.1V	–	–	–	672	–	–	–	0.68
331	330	N	100KHz, 0.1V	–	–	1090	812	–	–	0.70	0.60
391	390	N	100KHz, 0.1V	–	–	–	953	–	–	–	0.57
471	470	N	100KHz, 0.1V	–	–	–	1289	–	–	–	0.50
561	560	N	100KHz, 0.1V	–	–	–	1430	–	–	–	0.47
681	680	N	100KHz, 0.1V	–	–	–	1599	–	–	–	0.43
821	820	N	100KHz, 0.1V	–	–	–	1768	–	–	–	0.39
102	1000	N	100KHz, 0.1V	–	–	–	1989	–	–	–	0.35

LMax SMD Power Inductor



LMXS Series – Shielded Style K

FEATURES

- Silver Plated Type, Low cost design
- High power, High saturation inductors
- Ideal inductors for DC/DC converters
- With magnetically shielded against radiation
- Available on tape and reel for automatic surface mounting

APPLICATIONS

- Power Supply for VTRs
- LCD Televisions
- Notebook PCs
- Portable Communication
- DC/DC Converters, etc.

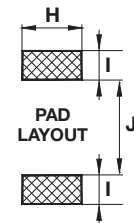
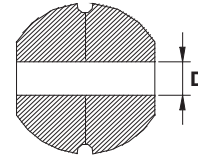
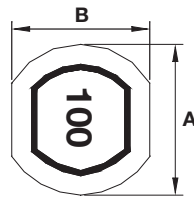
CHARACTERISTICS

- Rated DC current: The current when the inductance becomes 25% lower than its initial value or the actual current when the temperature of coil increases to $\Delta 40^{\circ}\text{C}$. The smaller one is defined as Rated DC Current. ($T_a=25^{\circ}\text{C}$)
- Operating temperature range: $-40 \sim 85^{\circ}\text{C}$

INDUCTANCE AND RATED CURRENT RANGES

- 0606 10 ~ 68pH 1.0 ~ 0.42A
- 0807 4.7 ~ 270pH 3.15 ~ 0.33A
- 1009 10 ~ 470pH 2.06 ~ 0.33A
- 1312 10 ~ 820pH 2.65 ~ 0.36A
- Electrical specifications at 25°C

DIMENSIONS



mm (inches)

Type	A	B	C	D	H	I	J
0606	6.20±0.30 (0.244±0.012)	5.60±0.30 (0.220±0.012)	3.20±0.30 (0.126±0.012)	1.70 (0.067)	5.50 (0.217)	2.25 (0.089)	1.70 (0.067)
0807	7.80±0.35 (0.307±0.014)	7.00±0.35 (0.276±0.014)	4.50±0.40 (0.177±0.016)	1.90 (0.075)	7.50 (0.295)	4.00 (0.157)	2.00 (0.079)
1009	10.0±0.40 (0.394±0.016)	9.00±0.40 (0.354±0.016)	5.00±0.50 (0.197±0.020)	2.50 (0.098)	9.50 (0.374)	5.00 (0.197)	2.50 (0.098)
1312	12.6±0.50 (0.496±0.020)	11.6±0.50 (0.457±0.020)	5.40±0.50 (0.213±0.020)	3.00 (0.118)	12.0 (0.472)	6.00 (0.236)	3.00 (0.118)

HOW TO ORDER

LM	XS	0606	M	R04	K	T	A	S
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XS = Shielded	0606 = 6x6xh 1312 = 13x12xh (h = see catalog)	M = ±20% N = ±30%	3R9 = 3.900μH 390 = 39.00μH 391 = 390.0μH 392 = 3900μH		T = Sn Plate	A = Standard	S = 13" Reel

LMax SMD Power Inductor



LMXS Series – Shielded Style K

ELECTRICAL CHARACTERISTICS

0606/0807/1009/1312

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.				IDC (A) max.			
				0606	0807	1009	1312	0606	0807	1009	1312
4R7	4.7	N	100KHz, 0.25V	–	0.03	–	–	–	3.15	–	–
100	10	M	2.52MHz, 0.25V	0.14	0.07	0.06	0.05	1.00	1.65	2.06	2.65
120	12	M	2.52MHz, 0.25V	0.16	0.07	0.07	0.05	0.94	1.57	1.94	2.50
150	15	M	2.52MHz, 0.25V	0.18	0.08	0.07	0.06	0.86	1.39	1.72	2.45
180	18	M	2.52MHz, 0.25V	0.25	0.10	0.08	0.06	0.78	1.29	1.58	2.40
220	22	M	2.52MHz, 0.25V	0.32	0.13	0.08	0.07	0.76	1.12	1.42	2.20
270	27	M	2.52MHz, 0.25V	0.36	0.16	0.10	0.08	0.64	1.06	1.32	2.00
330	33	M	2.52MHz, 0.25V	0.41	0.18	0.11	0.10	0.61	0.97	1.16	1.80
390	39	M	2.52MHz, 0.25V	0.47	0.18	0.12	0.11	0.53	0.91	1.10	1.65
470	47	M	2.52MHz, 0.25V	0.51	0.27	0.14	0.12	0.50	0.80	1.00	1.50
560	56	M	2.52MHz, 0.25V	0.72	0.29	0.19	0.15	0.46	0.76	0.93	1.38
680	68	M	2.52MHz, 0.25V	0.82	0.33	0.21	0.17	0.42	0.68	0.85	1.26
820	82	M	2.52MHz, 0.25V	–	0.43	0.28	0.20	–	0.62	0.79	1.14
101	100	M	1KHz, 0.25V	–	0.49	0.34	0.25	–	0.55	0.72	1.05
121	120	M	1KHz, 0.25V	–	0.68	0.37	0.28	–	0.49	0.63	0.95
151	150	M	1KHz, 0.25V	–	0.94	0.51	0.40	–	0.44	0.55	0.85
181	180	M	1KHz, 0.25V	–	1.00	0.57	0.48	–	0.40	0.50	0.77
221	220	M	1KHz, 0.25V	–	1.18	0.78	0.52	–	0.36	0.47	0.70
271	270	M	1KHz, 0.25V	–	1.30	0.87	0.70	–	0.33	0.41	0.63
331	330	M	1KHz, 0.25V	–	–	1.20	0.80	–	–	0.37	0.57
391	390	M	1KHz, 0.25V	–	–	1.34	1.08	–	–	0.35	0.52
471	470	M	1KHz, 0.25V	–	–	1.50	1.20	–	–	0.33	0.48
561	560	M	1KHz, 0.25V	–	–	–	1.34	–	–	–	0.44
681	680	M	1KHz, 0.25V	–	–	–	1.78	–	–	–	0.40
821	820	M	1KHz, 0.25V	–	–	–	2.00	–	–	–	0.36

LMax SMD Power Inductor



LMXS Series – Shielded Style M

FEATURES

- Magnetically shielded construction
- RoHS compliance

APPLICATIONS

- LCD TV
- DC to DC Converters
- Notebook PC

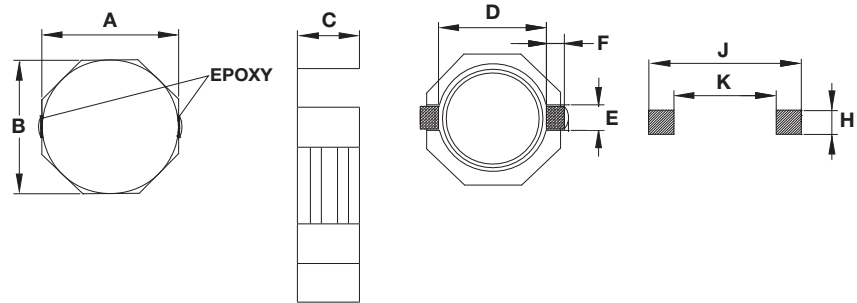
CHARACTERISTICS

- Rated DC Current: The current when the inductance becomes 35% lower than its initial value.
- Operating temperature: -40 ~ 85°C

INDUCTANCE AND RATED CURRENT RANGES

- 0808 1.0 ~ 100μH 6.5 ~ 0.75A
- 08D8 1.8 ~ 100μH 7.0 ~ 1.05A
- 08E8 1.0 ~ 100μH 9.0 ~ 1.30A
- Electrical specifications at 25°C

DIMENSIONS



mm (inches)

Type	A	B	C max.	D Ref.	E Ref.	F Ref.	H	J	K
0808	8.00±0.30 (0.315±0.012)	8.00±0.30 (0.315±0.012)	3.00 (0.118)	6.30 (0.248)	2.50 (0.098)	1.20 (0.047)	2.80 (0.110)	10.1 (0.398)	6.10 (0.240)
08D8	8.00±0.30 (0.315±0.012)	8.00±0.30 (0.315±0.012)	4.00 (0.157)	6.30 (0.248)	2.50 (0.098)	1.20 (0.047)	2.80 (0.110)	10.1 (0.398)	6.10 (0.240)
08E8	8.0±0.30 (0.315±0.012)	8.00±0.30 (0.315±0.012)	4.50 (0.177)	6.30 (0.248)	2.50 (0.098)	1.20 (0.047)	2.80 (0.110)	10.1 (0.398)	6.10 (0.240)

HOW TO ORDER

LM	XS	0808	N	R04	M	T	A	S
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XN = Non-shielded	0808 = 8x8xh 08D8 = 8x8xD(h) (h = see catalog)	N = ±30%	3R9 = 3.900μH 390 = 39.00μH 391 = 390.0μH 392 = 3900μH		T = Sn Plate	A = Standard	S = 13" Reel

LMax SMD Power Inductor



LMXS Series – Shielded Style M

ELECTRICAL CHARACTERISTICS

0808/08D8/08E8

Codes	L (μ H)	Tolerance	Test Condition		DCR (Ω) max.			IDC (A) max.		
			0808	08D8/08E8	0808	08D8	08E8	0808	08D8	0838
1R0	1.0	N	100KHz, 0.25V	100KHz, 0.1V	11.0	–	9.50	6.5	–	9.0
1R2	1.2	N	100KHz, 0.25V	100KHz, 0.1V	–	–	12.2	–	–	8.0
1R8	1.8	N	100KHz, 0.25V	100KHz, 0.1V	–	15.6	–	–	7.0	–
2R0	2.0	N	100KHz, 0.25V	100KHz, 0.1V	–	–	14.0	–	–	7.0
2R5	2.5	N	100KHz, 0.25V	100KHz, 0.1V	15.6	17.5	–	4.5	6.5	–
3R3	3.3	N	100KHz, 0.25V	100KHz, 0.1V	18.2	–	–	4.0	–	–
3R5	3.5	N	100KHz, 0.25V	100KHz, 0.1V	–	24.0	–	–	5.0	–
3R9	3.9	N	100KHz, 0.25V	100KHz, 0.1V	–	–	19.0	–	–	5.9
4R7	4.7	N	100KHz, 0.25V	100KHz, 0.1V	24.7	29.0	22.0	3.4	4.6	5.6
6R0	6.0	N	100KHz, 0.25V	100KHz, 0.1V	–	32.0	–	–	4.2	–
6R8	6.8	N	100KHz, 0.25V	100KHz, 0.1V	–	–	25.0	–	–	4.4
7R3	7.3	N	100KHz, 0.25V	100KHz, 0.1V	39.0	–	–	2.80	–	–
100	10	N	100KHz, 0.25V	100KHz, 0.1V	47.0	48.0	36.0	2.50	3.00	4.0
150	15	N	100KHz, 0.25V	100KHz, 0.1V	69.0	67.0	53.0	1.90	2.75	2.9
220	22	N	100KHz, 0.25V	100KHz, 0.1V	99.0	105	75.0	1.60	2.30	2.6
330	33	N	100KHz, 0.25V	100KHz, 0.1V	156	157	125	1.30	1.75	2.2
470	47	N	100KHz, 0.25V	100KHz, 0.1V	195	189	150	1.15	1.52	1.8
680	68	N	100KHz, 0.25V	100KHz, 0.1V	286	290	240	0.92	1.30	1.5
101	100	N	100KHz, 0.25V	100KHz, 0.1V	430	410	360	0.75	1.05	1.3

LMax SMD Power Inductor



LMMN Series – Miniature Style M

FEATURES

- The miniature chip inductors is wound on a special ferrite core.
- 0302/ 03A2/ 0403 are high Q value at high frequency and low DC resistance.
- 03A2/ 0403/ 0605 are low DC resistance, high current capacity, and high impedance characteristics. They are excellent for using as a choke coil in DC power supply circuits.

APPLICATIONS

- Pagers, Cordless Phone
- High Frequency Communication Products
- Personal Computers
- Disk Drives And Computer Peripherals
- DC Power Supply Circuits

CHARACTERISTICS

Except 0202/02A2/02B2/0302

- Rated DC Current: The current when the inductance becomes 10% lower than its initial value or the current when the temperature of coil increases A T20°C. The smaller one is defined as Rated DC Current. (Ta=25°C)
- Operating temperature range: -40 ~ 85°C

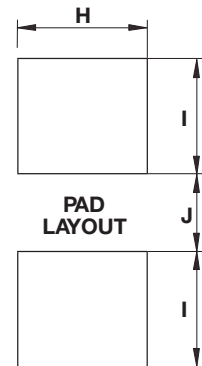
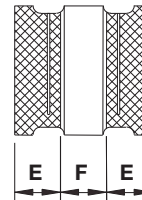
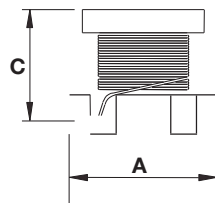
CHARACTERISTICS FOR LWI01/LWI02/LWI03/LWI04

- Rated DC Current (I sat): The current when the inductance becomes 30% typical its initial value (Ta=25°C)
- Temperature Rise Current (I rms): The actual current when the temperature of coil becomes A T=40°C (Ta=25°C)
- Operating temperature range: -40 ~ 105°C

INDUCTANCE AND RATED CURRENT RANGES

- 0202 0.47 ~ 10μH 2.80 ~ 0.65A
- 02A2 0.47 ~ 10μH 3.70 ~ 0.90A
- 02B2 1.00 ~ 22μH 2.30 ~ 0.51A
- 0302 1.00 ~ 100μH 1.00 ~ 0.1A
- 03A2 1.00 ~ 560μH 0.445 ~ 0.04A
- 0403 1.00 ~ 2200μH 0.50 ~ 0.03A
- 0302C 0.47 ~ 120μH 3.40 ~ 0.17A
- 03A2C 1.00 ~ 560μH 1.00 ~ 0.06A
- 0403C 1.00 ~ 470μH 1.08 ~ 0.09A
- 0605C 0.12 ~ 10000μH 6.00 ~ 0.05A
- Electrical specifications at 25°C

DIMENSIONS



mm (inches)

Type	A	B	C	E	F	H	I	J
0202	2.50±0.20 (0.098±0.008)	2.00±0.20 (0.079±0.008)	1.00 max. (0.039)	0.40±0.20 (0.016±0.008)	1.00 min. (0.039)	2.10 (0.083)	0.90 (0.035)	0.80 (0.031)
02A2	2.50±0.20 (0.098±0.008)	2.00±0.20 (0.079±0.008)	1.25 max. (0.049)	0.40±0.20 (0.016±0.008)	1.00 min. (0.039)	2.10 (0.083)	0.90 (0.035)	0.80 (0.031)
02B2	2.50±0.20 (0.098±0.008)	2.50±0.20 (0.098±0.008)	1.05 max. (0.041)	0.85 ref (0.033)	0.85 ref (0.033)	2.50 (0.098)	1.20 (0.047)	0.80 (0.031)
0302	3.20±0.30 (0.126±0.012)	2.50±0.20 (0.098±0.008)	1.55±0.30 (0.061±0.012)	1.05±0.30 (0.041±0.012)	1.05±0.30 (0.041±0.012)	2.00 (0.079)	1.50 (0.059)	1.00 (0.039)
03A2	3.20±0.30 (0.126±0.012)	2.50±0.20 (0.098±0.008)	2.00±0.30 (0.079±0.012)	1.05±0.30 (0.041±0.012)	1.05±0.30 (0.041±0.012)	2.00 (0.079)	1.50 (0.059)	1.00 (0.039)
0403	4.50±0.30 (0.177±0.012)	3.20±0.20 (0.126±0.008)	2.60±0.30 (0.102±0.012)	1.00 min. (0.039)	1.00 min. (0.039)	3.00 (0.118)	2.00 (0.079)	1.20 (0.047)
0605	5.70±0.30 (0.224±0.012)	5.00±0.30 (0.197±0.012)	4.70±0.50 (0.185±0.020)	1.30 min. (0.051)	1.70 min. (0.067)	5.00 (0.197)	2.00 (0.079)	2.00 (0.079)

LMax SMD Power Inductor



LMMN Series – Miniature Style M

HOW TO ORDER

LM	XS	0202	N	R04	M	T	A	R
↓	↓	↓	↓	↓	↓	↓	↓	↓
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XN = Non-shielded	0202 = 2x2xh (h = see catalog)	J = ±5% K = ±10% M = ±20% N = ±30%	R04 = 0.039µH R39 = 0.390µH 3R9 = 3.900µH 390 = 39.00µH 391 = 390.0µH 392 = 3900µH		T = Sn Plate	A = Standard C = Choke	R = 7" Reel

ELECTRICAL CHARACTERISTICS

0202

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	I rms (A) Typical	I sat (A) Typical
R47	0.47	M	1MHz, 0.1V	0.048	2.30	2.80
1R0	1.00	M	1MHz, 0.1V	0.085	1.70	2.00
1R5	1.50	M	1MHz, 0.1V	0.128	1.40	1.70
2R2	2.20	M	1MHz, 0.1V	0.19	1.10	1.40
3R3	3.30	M	1MHz, 0.1V	0.304	0.94	1.20
4R7	4.70	M	1MHz, 0.1V	0.44	0.78	0.98
6R8	6.80	M	1MHz, 0.1V	0.541	0.70	0.82
100	10.0	M	1MHz, 0.1V	0.854	0.52	0.65

02A2

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	I rms (A) Typical	I sat (A) Typical
R47	0.47	M	1MHz, 0.1V	0.056	2.20	3.70
1R0	1.00	M	1MHz, 0.1V	0.088	1.80	2.70
1R5	1.50	M	1MHz, 0.1V	0.126	1.50	2.20
2R2	2.20	M	1MHz, 0.1V	0.155	1.30	2.00
3R3	3.30	M	1MHz, 0.1V	0.272	1.00	1.60
4R7	4.70	M	1MHz, 0.1V	0.45	0.81	1.20
5R6	5.60	M	1MHz, 0.1V	0.45	0.72	1.15
6R8	6.80	M	1MHz, 0.1V	0.612	0.66	1.10
100	10.0	M	1MHz, 0.1V	0.756	0.59	0.90

02B2

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	I rms (A) Typical	I sat (A) Typical
1R0	1.00	M	1MHz, 0.1V	0.085	1.90	2.30
1R5	1.50	M	1MHz, 0.1V	0.115	1.50	1.90
2R2	2.20	M	1MHz, 0.1V	0.168	1.20	1.50
3R3	3.30	M	1MHz, 0.1V	0.239	1.10	1.30
4R7	4.70	M	1MHz, 0.1V	0.316	0.90	1.10
5R6	5.60	M	1MHz, 0.1V	0.42	0.83	0.98
6R8	6.80	M	1MHz, 0.1V	0.487	0.80	0.90
8R2	8.20	M	1MHz, 0.1V	0.548	0.71	0.84
100	10.0	M	1MHz, 0.1V	0.61	0.68	0.79
220	22.0	M	1MHz, 0.1V	1.552	0.40	0.51

LMax SMD Power Inductor



LMMN Series – Miniature Style M

0302

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.	SRF (MHz) min.
1R0	1.00	N	1MHz, 0.1V	0.078	1.00	100
1R5	1.50	N	1MHz, 0.1V	0.068	1.20	100
2R2	2.20	M	1MHz, 0.1V	0.126	0.79	64.0
3R3	3.30	M	1MHz, 0.1V	0.18	0.70	50.0
4R7	4.70	M	1MHz, 0.1V	0.195	0.65	43.0
100	10.0	K	1MHz, 0.1V	0.42	0.45	26.0
150	15.0	K	1MHz, 0.1V	0.75	0.30	22.0
220	22.0	K	1MHz, 0.1V	1.00	0.25	19.0
330	33.0	K	1MHz, 0.1V	1.40	0.20	17.0
470	47.0	K	1MHz, 0.1V	2.20	0.17	13.0
680	68.0	K	1MHz, 0.1V	3.20	0.13	9.00
101	100	K	1MHz, 0.1V	4.50	0.10	8.00

03A2

Codes	L (μH)	Tolerance	Test Condition	Quality Factor		DCR (Ω) max.	IDC (A) max.	SRF (MHz) min.
				Spec. min.	Test Condition			
1R0	1.00	M	1MHz, 0.1V	20	1MHz, 0.1V	0.50	0.445	100
1R2	1.20	M	1MHz, 0.1V	20	1MHz, 0.1V	0.60	0.425	100
1R5	1.50	K, M	1MHz, 0.1V	20	1MHz, 0.1V	0.60	0.40	75.0
1R8	1.80	K, M	1MHz, 0.1V	20	1MHz, 0.1V	0.70	0.39	60.0
2R2	2.20	K, M	1MHz, 0.1V	20	1MHz, 0.1V	0.80	0.37	50.0
2R7	2.70	K, M	1MHz, 0.1V	20	1MHz, 0.1V	0.90	0.32	43.0
3R3	3.30	K, M	1MHz, 0.1V	20	1MHz, 0.1V	1.00	0.30	38.0
3R9	3.90	K, M	1MHz, 0.1V	20	1MHz, 0.1V	1.10	0.29	35.0
4R7	4.70	K, M	1MHz, 0.1V	20	1MHz, 0.1V	1.20	0.27	31.0
5R6	5.60	K, M	1MHz, 0.1V	20	1MHz, 0.1V	1.30	0.25	28.0
6R8	6.80	K, M	1MHz, 0.1V	20	1MHz, 0.1V	1.50	0.24	25.0
8R2	8.20	K, M	1MHz, 0.1V	20	1MHz, 0.1V	1.60	0.225	23.0
100	10.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	1.80	0.19	20.0
120	12.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	2.00	0.18	18.0
150	15.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	2.20	0.17	16.0
180	18.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	2.50	0.165	15.0
220	22.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	2.80	0.15	14.0
270	27.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	3.10	0.125	13.0
330	33.0	J, K	1MHz, 0.1V	40	1MHz, 0.1V	3.50	0.115	12.0
390	39.0	J, K	1MHz, 0.1V	40	1MHz, 0.1V	3.90	0.11	11.0
470	47.0	J, K	1MHz, 0.1V	40	1MHz, 0.1V	4.30	0.10	11.0
560	56.0	J, K	1MHz, 0.1V	40	1MHz, 0.1V	4.90	0.085	10.0
680	68.0	J, K	1MHz, 0.1V	40	1MHz, 0.1V	5.50	0.08	9.00
820	82.0	J, K	1MHz, 0.1V	40	1MHz, 0.1V	6.20	0.07	8.50
101	100	J, K	1MHz, 0.1V	40	796KHz, 0.1V	7.00	0.08	8.00
121	120	J, K	1MHz, 0.1V	40	796KHz, 0.1V	8.00	0.075	7.50
151	150	J, K	1MHz, 0.1V	40	796KHz, 0.1V	9.30	0.07	7.00
181	180	J, K	1MHz, 0.1V	40	796KHz, 0.1V	10.20	0.065	6.00
221	220	J, K	1MHz, 0.1V	40	796KHz, 0.1V	11.80	0.065	5.50
271	270	J, K	1MHz, 0.1V	40	796KHz, 0.1V	12.50	0.065	5.00
331	330	J, K	1MHz, 0.1V	40	796KHz, 0.1V	15.00	0.065	5.00
391	390	J, K	1MHz, 0.1V	50	796KHz, 0.1V	22.00	0.05	5.00
471	470	J, K	1KHz, 0.1V	50	796KHz, 0.1V	25.00	0.045	5.00
561	560	J, K	1KHz, 0.1V	50	796KHz, 0.1V	28.00	0.04	5.00 ref

LMax SMD Power Inductor



LMMN Series – Miniature Style M

0403

Codes	L (μ H)	Tolerance	Test Condition	Quality Factor		DCR (Ω) max.	IDC (A) max.	SRF (MHz) min.
				Spec. min.	Test Condition			
1R0	1.00	M	1MHz, 0.1V	20	1MHz, 0.1V	0.20	0.50	120
1R2	1.20	M	1MHz, 0.1V	20	1MHz, 0.1V	0.20	0.50	100
1R5	1.50	M	1MHz, 0.1V	20	1MHz, 0.1V	0.30	0.50	85.0
1R8	1.80	M	1MHz, 0.1V	20	1MHz, 0.1V	0.30	0.50	75.0
2R2	2.20	M	1MHz, 0.1V	20	1MHz, 0.1V	0.30	0.50	62.0
2R7	2.70	M	1MHz, 0.1V	20	1MHz, 0.1V	0.32	0.50	53.0
3R3	3.30	M	1MHz, 0.1V	20	1MHz, 0.1V	0.35	0.50	47.0
3R9	3.90	M	1MHz, 0.1V	20	1MHz, 0.1V	0.38	0.50	41.0
4R7	4.70	K, M	1MHz, 0.1V	30	1MHz, 0.1V	0.40	0.50	38.0
5R6	5.60	K, M	1MHz, 0.1V	30	1MHz, 0.1V	0.47	0.50	33.0
6R8	6.80	K, M	1MHz, 0.1V	30	1MHz, 0.1V	0.50	0.45	31.0
8R2	8.20	K, M	1MHz, 0.1V	30	1MHz, 0.1V	0.56	0.45	27.0
100	10.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	0.56	0.40	23.0
120	12.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	0.62	0.38	21.0
150	15.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	0.73	0.36	19.0
180	18.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	0.82	0.34	17.0
220	22.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	0.94	0.32	15.0
270	27.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	1.10	0.30	14.0
330	33.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	1.20	0.27	12.0
390	39.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	1.40	0.24	11.0
470	47.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	1.50	0.22	10.0
560	56.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	1.70	0.20	9.30
680	68.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	1.90	0.18	8.40
820	82.0	J, K	1MHz, 0.1V	35	1MHz, 0.1V	2.20	0.17	7.50
101	100	J, K	1MHz, 0.1V	40	796KHz, 0.1V	2.50	0.16	6.80
121	120	J, K	1MHz, 0.1V	40	796KHz, 0.1V	3.00	0.15	6.20
151	150	J, K	1MHz, 0.1V	40	796KHz, 0.1V	3.70	0.13	5.50
181	180	J, K	1MHz, 0.1V	40	796KHz, 0.1V	4.50	0.12	5.00
221	220	J, K	1MHz, 0.1V	40	796KHz, 0.1V	5.40	0.11	4.50
271	270	J, K	1MHz, 0.1V	40	796KHz, 0.1V	6.80	0.10	4.00
331	330	J, K	1MHz, 0.1V	40	796KHz, 0.1V	8.20	0.095	3.60
391	390	J, K	1MHz, 0.1V	40	796KHz, 0.1V	9.70	0.09	3.30
471	470	J, K	1KHz, 0.1V	40	796KHz, 0.1V	11.80	0.08	3.00
561	560	J, K	1KHz, 0.1V	40	796KHz, 0.1V	14.50	0.07	2.70
681	680	J, K	1KHz, 0.1V	40	796KHz, 0.1V	17.00	0.065	2.50
821	820	J, K	1KHz, 0.1V	40	796KHz, 0.1V	20.50	0.06	2.20
102	1000	J, K	1KHz, 0.1V	40	252KHz, 0.1V	25.00	0.05	2.00
122	1200	J, K	1KHz, 0.1V	40	252KHz, 0.1V	30.00	0.045	1.80
152	1500	J, K	1KHz, 0.1V	40	252KHz, 0.1V	37.00	0.04	1.60
182	1800	J, K	1KHz, 0.1V	40	252KHz, 0.1V	45.00	0.035	1.50
222	2200	J, K	1KHz, 0.1V	40	252KHz, 0.1V	50.00	0.03	1.30

LMax SMD Power Inductor



LMMN Series – Miniature Style M

0302 (C)

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) ±20%	I sat (A) max.	I rms (A) max.	SRF (MHz) min.
R47	0.47	N	1MHz, 0.1V	0.03	3.40	2.55	100
1R0	1.00	N	1MHz, 0.1V	0.045	2.30	2.05	100
1R5	1.50	N	1MHz, 0.1V	0.057	1.75	1.75	70.0
2R2	2.20	N	1MHz, 0.1V	0.076	1.55	1.60	70.0
3R3	3.30	N	1MHz, 0.1V	0.12	1.25	1.20	50.0
4R7	4.70	N	1MHz, 0.1V	0.18	1.00	1.00	40.0
6R8	6.80	N	1MHz, 0.1V	0.24	0.85	0.85	40.0
100	10.0	M	1MHz, 0.1V	0.38	0.75	0.70	30.0
150	15.0	M	1MHz, 0.1V	0.57	0.60	0.52	20.0
220	22.0	M	1MHz, 0.1V	0.81	0.50	0.45	20.0
330	33.0	M	1MHz, 0.1V	1.15	0.38	0.39	13.0
470	47.0	M	1MHz, 0.1V	1.78	0.33	0.31	11.0
680	68.0	M	1MHz, 0.1V	2.28	0.28	0.275	11.0
101	100	M	1MHz, 0.1V	2.70	0.18	0.25	8.00
121	120	M	1MHz, 0.1V	4.38	0.17	0.20	8.00

03A2 (C)

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.	SRF (MHz) min.
1R0	1.00	M	1MHz, 0.1V	0.078	1.00	100
2R2	2.20	M	1MHz, 0.1V	0.126	0.79	64.0
3R3	3.30	M	1MHz, 0.1V	0.165	0.50	50.0
4R7	4.70	M	1MHz, 0.1V	0.195	0.45	43.0
6R8	6.80	M	1MHz, 0.1V	0.33	0.45	38.0
100	10.0	M	1MHz, 0.1V	0.572	0.30	26.0
220	22.0	K, M	1MHz, 0.1V	0.923	0.25	19.0
470	47.0	K, M	1MHz, 0.1V	1.69	0.17	12.0
101	100	J, K	1MHz, 0.1V	4.55	0.10	8.00
151	150	J, K	1MHz, 0.1V	9.10	0.08	7.00
221	220	J, K	1MHz, 0.1V	10.92	0.07	5.50
331	330	J, K	1MHz, 0.1V	13.0	0.06	4.50
391	390	J, K	1MHz, 0.1V	22.1	0.06	4.00
471	470	J, K	1MHz, 0.1V	24.7	0.06	3.70
561	560	J, K	1MHz, 0.1V	28.6	0.06	3.40

0403 (C)

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.	SRF (MHz) min.
1R0	1.00	M	1MHz, 0.1V	0.08	1.08	100
1R5	1.50	M	1MHz, 0.1V	0.09	1.00	85.0
2R2	2.20	M	1MHz, 0.1V	0.11	0.90	60.0
3R3	3.30	M	1MHz, 0.1V	0.13	0.80	47.0
4R7	4.70	K, M	1MHz, 0.1V	0.15	0.75	35.0
6R8	6.80	K, M	1MHz, 0.1V	0.20	0.72	30.0
100	10.0	J, K	1MHz, 0.1V	0.24	0.65	23.0
150	15.0	J, K	1MHz, 0.1V	0.32	0.57	20.0
220	22.0	J, K	1MHz, 0.1V	0.60	0.42	15.0
330	33.0	J, K	1MHz, 0.1V	1.00	0.31	12.0
470	47.0	J, K	1MHz, 0.1V	1.10	0.28	10.0
680	68.0	J, K	1MHz, 0.1V	1.70	0.22	8.40
101	100	J, K	1MHz, 0.1V	2.20	0.19	6.80
151	150	J, K	1MHz, 0.1V	3.50	0.13	5.50
221	220	J, K	1MHz, 0.1V	4.00	0.11	4.50
331	330	J, K	1MHz, 0.1V	6.80	0.10	3.60
471	470	J, K	1kHz, 0.1V	8.50	0.09	3.00

LMax SMD Power Inductor



LMMN Series – Miniature Style M

0605 (C)

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.	SRF (MHz) min.
R12	0.12	M	1MHz, 0.1V	0.0098	6.00	450
R27	0.27	M	1MHz, 0.1V	0.014	5.30	300
R47	0.47	M	1MHz, 0.1V	0.0182	4.80	200
1R0	1.00	M	1MHz, 0.1V	0.027	4.00	150
1R5	1.50	M	1MHz, 0.1V	0.031	3.70	110
2R2	2.20	M	1MHz, 0.1V	0.041	3.20	80.0
3R3	3.30	M	1MHz, 0.1V	0.050	2.90	40.0
4R7	4.70	M	1MHz, 0.1V	0.0574	2.70	30.0
6R8	6.80	M	1MHz, 0.1V	0.104	2.00	25.0
100	10.0	K, M	1MHz, 0.1V	0.130	1.70	20.0
150	15.0	K, M	1MHz, 0.1V	0.21	1.40	17.0
220	22.0	K, M	1MHz, 0.1V	0.266	1.20	15.0
330	33.0	K, M	1MHz, 0.1V	0.448	0.90	12.0
470	47.0	K, M	1MHz, 0.1V	0.56	0.80	10.0 ref
680	68.0	K, M	1MHz, 0.1V	0.938	0.64	7.60
101	100	K, M	100KHz, 0.1V	1.204	0.56	6.50
151	150	K, M	100KHz, 0.1V	2.66	0.42	5.00
221	220	K, M	100KHz, 0.1V	3.36	0.32	4.00
331	330	K, M	100KHz, 0.1V	6.16	0.27	3.10
471	470	K, M	100KHz, 0.1V	7.56	0.24	2.40
681	680	K, M	100KHz, 0.1V	11.34	0.19	1.90
102	1000	K, M	10KHz, 0.1V	14.42	0.15	1.70
222	2200	K, M	10KHz, 0.1V	30.1	0.10	1.20
472	4700	K, M	10KHz, 0.1V	61.04	0.07	0.80
103	10000	K, M	10KHz, 0.1V	140.	0.05	0.50

LMax DIP Power Inductor



LMDP Series – Non Shielded Style N

FEATURES

- Density design, small size, and low cost
- Comparatively range rated current and high inductance
- Low DCR and high dip stability

APPLICATIONS

- Personal Computers
- Variety of Battery Power Equipment
- DC Power Supply Circuits

CHARACTERISTICS

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

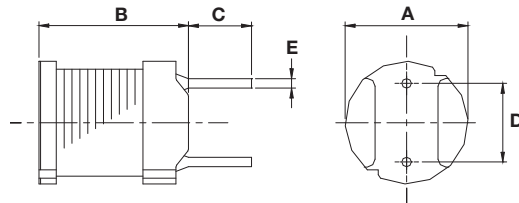
INDUCTANCE AND RATED CURRENT RANGES

- 0605 22 ~ 1000μH 0.90 ~ 0.13A
- 0606 22 ~ 1000μH 1.27 ~ 0.19A
- 0805 10 ~ 10000μH 2.50 ~ 0.081A
- 0807 10 ~ 10000μH 2.90 ~ 0.084A
- 0809 10 ~ 47000μH 2.60 ~ 0.038A
- 1006 10 ~ 1000μH 3.60 ~ 0.36A
- 1008 10 ~ 1000μH 4.50 ~ 0.45A
- 1010 10 ~ 1000μH 5.30 ~ 0.53A
- Electrical specifications at 25°C

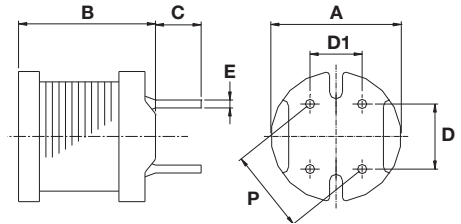
DIMENSIONS



LMDP 0605 / 0606 / 0805 / 0807 / 0809



LMDP 1006 / 1008 / 1010



mm (inches)

Type	A	B max.	C	D	D1	E	P
0605	6.00±0.50 (0.236±0.020)	5.00 (0.197)	4.00±1.00 (0.157±0.039)	4.00±0.30 (0.157±0.012)	-	0.50±0.10 (0.010±0.004)	-
0606	6.00±0.50 (0.236±0.020)	6.50 (0.256)	4.00±1.00 (0.157±0.039)	4.00±0.30 (0.157±0.012)	-	0.50±0.10 (0.010±0.004)	-
0805	7.80±0.50 (0.307±0.020)	5.50 (0.217)	5.00±1.00 (0.197±0.039)	5.00±0.30 (0.197±0.012)	-	0.65±0.10 (0.026±0.004)	-
0807	7.80±0.50 (0.307±0.020)	7.50 (0.295)	5.00±1.00 (0.197±0.039)	5.00±0.30 (0.197±0.012)	-	0.65±0.10 (0.026±0.004)	-
0809	7.80±0.50 (0.307±0.020)	9.50 (0.374)	5.00±1.00 (0.197±0.039)	5.00±0.30 (0.197±0.012)	-	0.65±0.10 (0.026±0.004)	-
1006	10.0±0.50 (0.394±0.020)	6.50 (0.256)	3.50±1.00 (0.138±0.039)	5.00±0.30 (0.197±0.012)	4.00±0.30 (0.157±0.012)	0.80±0.10 (0.031±0.004)	6.40±0.50 (0.252±0.020)
1008	10.0±0.50 (0.394±0.020)	8.50 (0.335)	3.50±1.00 (0.138±0.039)	5.00±0.30 (0.197±0.012)	4.00±0.30 (0.157±0.012)	0.65±0.10 (0.026±0.004)	6.40±0.50 (0.252±0.020)
1010	10.0±0.50 (0.394±0.020)	10.5 (0.413)	3.50±1.00 (0.138±0.039)	5.00±0.30 (0.197±0.012)	4.00±0.30 (0.157±0.012)	0.70±0.10 (0.028±0.004)	6.40±0.50 (0.252±0.020)

LMax DIP Power Inductor



LMDP Series – Non Shielded Style N

HOW TO ORDER

LM	DP	0807	M	R04	N	T	A	B
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	DP = DIP	0807 = 8x7xh (h = see catalog)	K = ±10% M = ±20%	100 = 10µH 101 = 100µH 102 = 1000µH 103 = 10000µH		T = Sn Plate	A = Standard	B = Box

ELECTRICAL CHARACTERISTICS

0605/0606/0805/0807

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.				IDC (A) max.			
				0605	0606	0805	0807	0605	0606	0805	0807
100	10	M	100KHz, 0.1V	–	–	0.07	0.05	–	–	2.50	2.90
120	12	M	100KHz, 0.1V	–	–	0.08	0.06	–	–	2.40	2.50
150	15	M	100KHz, 0.1V	–	–	0.09	0.07	–	–	2.10	2.20
180	18	M	100KHz, 0.1V	–	–	0.10	0.08	–	–	2.00	1.90
220	22	M	100KHz, 0.1V	0.18	0.11	0.12	0.09	0.90	1.27	1.70	1.80
270	27	M	100KHz, 0.1V	0.21	0.14	0.14	0.11	0.81	1.14	1.60	1.70
330	33	M	100KHz, 0.1V	0.27	0.17	0.17	0.13	0.74	1.03	1.40	1.50
390	39	M	100KHz, 0.1V	0.29	0.19	0.21	0.14	0.68	0.95	1.30	1.30
470	47	M	100KHz, 0.1V	0.34	0.23	0.24	0.15	0.62	0.87	1.20	1.30
560	56	M	100KHz, 0.1V	0.42	0.26	0.31	0.18	0.57	0.80	1.10	1.20
680	68	M	100KHz, 0.1V	0.48	0.28	0.34	0.20	0.51	0.72	1.00	1.10
820	82	M	100KHz, 0.1V	0.55	0.39	0.40	0.24	0.47	0.66	0.93	1.00
101	100	K	1KHz, 0.1V	0.68	0.43	0.52	0.28	0.42	0.59	0.81	0.89
121	120	K	1KHz, 0.1V	0.77	0.54	0.59	0.36	0.39	0.54	0.76	0.81
151	150	K	1KHz, 0.1V	0.95	0.64	0.71	0.42	0.35	0.48	0.67	0.72
181	180	K	1KHz, 0.1V	1.15	0.74	0.89	0.57	0.32	0.44	0.62	0.66
221	220	K	1KHz, 0.1V	1.30	0.96	1.04	0.63	0.29	0.40	0.54	0.57
271	270	K	1KHz, 0.1V	1.55	1.12	1.28	0.88	0.26	0.36	0.49	0.51
331	330	K	1KHz, 0.1V	2.18	1.48	1.47	1.05	0.23	0.33	0.44	0.46
391	390	K	1KHz, 0.1V	2.47	1.66	1.67	1.17	0.21	0.30	0.41	0.44
471	470	K	1KHz, 0.1V	2.92	1.91	1.95	1.34	0.20	0.27	0.38	0.41
561	560	K	1KHz, 0.1V	3.97	2.31	2.83	1.72	0.18	0.25	0.35	0.36
681	680	K	1KHz, 0.1V	4.57	2.67	3.25	1.96	0.16	0.23	0.32	0.33
821	820	K	1KHz, 0.1V	5.28	3.10	3.82	2.56	0.15	0.21	0.31	0.30
102	1000	K	1KHz, 0.1V	7.06	4.45	5.28	2.94	0.13	0.19	0.25	0.27
122	1200	K	1KHz, 0.1V	–	–	6.03	4.04	–	–	0.23	0.24
152	1500	K	1KHz, 0.1V	–	–	7.15	4.70	–	–	0.21	0.22
182	1800	K	1KHz, 0.1V	–	–	8.26	5.05	–	–	0.20	0.20
222	2200	K	1KHz, 0.1V	–	–	11.1	6.25	–	–	0.18	0.18
272	2700	K	1KHz, 0.1V	–	–	13.1	8.72	–	–	0.16	0.16
332	3300	K	1KHz, 0.1V	–	–	15.9	10.6	–	–	0.14	0.15
392	3900	K	1KHz, 0.1V	–	–	18.0	14.2	–	–	0.13	0.14
472	4700	K	1KHz, 0.1V	–	–	23.9	16.7	–	–	0.12	0.12
562	5600	K	1KHz, 0.1V	–	–	26.8	18.7	–	–	0.11	0.11
682	6800	K	1KHz, 0.1V	–	–	31.7	21.8	–	–	0.098	0.10
822	8200	K	1KHz, 0.1V	–	–	46.5	28.7	–	–	0.088	0.093
103	10000	K	1KHz, 0.1V	–	–	55.7	33.0	–	–	0.081	0.084

LMax DIP Power Inductor



LMDP Series – Non Shielded Style N

0809/1006/1008/1010

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.				IDC (A) max.			
				0809	1006	1008	1010	0809	1006	1008	1010
100	10	M	100KHz, 0.1V	0.04	0.040	0.027	0.022	2.60	3.60	4.50	5.30
120	12	M	100KHz, 0.1V	0.04	0.044	0.031	0.023	2.60	3.30	4.10	4.90
150	15	M	100KHz, 0.1V	0.05	0.058	0.036	0.026	2.10	2.90	3.70	4.40
180	18	M	100KHz, 0.1V	0.05	0.064	0.049	0.033	2.00	2.70	3.40	4.00
220	22	M	100KHz, 0.1V	0.06	0.088	0.055	0.037	1.70	2.40	3.10	3.60
270	27	M	100KHz, 0.1V	0.06	0.100	0.062	0.048	1.60	2.20	2.80	3.30
330	33	M	100KHz, 0.1V	0.07	0.110	0.078	0.055	1.40	2.00	2.50	2.90
390	39	M	100KHz, 0.1V	0.08	0.140	0.087	0.073	1.40	1.80	2.30	2.70
470	47	M	100KHz, 0.1V	0.10	0.160	0.099	0.083	1.30	1.70	2.10	2.50
560	56	M	100KHz, 0.1V	0.11	0.190	0.130	0.092	1.20	1.50	1.90	2.30
680	68	M	100KHz, 0.1V	0.14	0.220	0.140	0.120	1.10	1.40	1.70	2.10
820	82	M	100KHz, 0.1V	0.16	0.290	0.160	0.140	1.00	1.30	1.60	1.90
101	100	K	1KHz, 0.1V	0.19	0.320	0.210	0.160	0.90	1.30	1.40	1.70
121	120	K	1KHz, 0.1V	0.22	0.380	0.240	0.200	0.82	1.20	1.30	1.50
151	150	K	1KHz, 0.1V	0.27	0.500	0.320	0.230	0.74	1.00	1.20	1.40
181	180	K	1KHz, 0.1V	0.31	0.560	0.350	0.310	0.71	0.84	1.10	1.30
221	220	K	1KHz, 0.1V	0.38	0.780	0.450	0.340	0.64	0.76	0.96	1.10
271	270	K	1KHz, 0.1V	0.53	0.920	0.610	0.400	0.57	0.69	0.87	1.00
331	330	K	1KHz, 0.1V	0.61	1.100	0.690	0.520	0.51	0.62	0.79	0.93
391	390	K	1KHz, 0.1V	0.69	1.300	0.780	0.650	0.48	0.57	0.72	0.86
471	470	K	1KHz, 0.1V	0.89	1.500	1.000	0.710	0.43	0.52	0.66	0.78
561	560	K	1KHz, 0.1V	1.01	1.900	1.200	1.000	0.40	0.48	0.60	0.71
681	680	K	1KHz, 0.1V	1.18	2.200	1.400	1.100	0.35	0.43	0.55	0.65
821	820	K	1KHz, 0.1V	1.57	2.600	1.800	1.300	0.32	0.40	0.50	0.59
102	1000	K	1KHz, 0.1V	1.84	3.200	2.100	1.700	0.30	0.36	0.45	0.53
122	1200	K	1KHz, 0.1V	2.10	-	-	-	0.27	-	-	-
152	1500	K	1KHz, 0.1V	2.80	-	-	-	0.23	-	-	-
182	1800	K	1KHz, 0.1V	3.21	-	-	-	0.21	-	-	-
222	2200	K	1KHz, 0.1V	4.21	-	-	-	0.19	-	-	-
272	2700	K	1KHz, 0.1V	4.94	-	-	-	0.17	-	-	-
332	3300	K	1KHz, 0.1V	6.16	-	-	-	0.15	-	-	-
392	3900	K	1KHz, 0.1V	6.84	-	-	-	0.14	-	-	-
472	4700	K	1KHz, 0.1V	7.89	-	-	-	0.13	-	-	-
562	5600	K	1KHz, 0.1V	11.50	-	-	-	0.12	-	-	-
682	6800	K	1KHz, 0.1V	13.20	-	-	-	0.11	-	-	-
822	8200	K	1KHz, 0.1V	15.20	-	-	-	0.10	-	-	-
103	10000	K	1KHz, 0.1V	22.00	-	-	-	0.089	-	-	-
123	12000	K	1KHz, 0.1V	25.00	-	-	-	0.073	-	-	-
153	15000	K	1KHz, 0.1V	29.10	-	-	-	0.068	-	-	-
183	18000	K	1KHz, 0.1V	38.90	-	-	-	0.066	-	-	-
223	22000	K	1KHz, 0.1V	44.90	-	-	-	0.059	-	-	-
273	27000	K	1KHz, 0.1V	55.70	-	-	-	0.052	-	-	-
333	33000	K	1KHz, 0.1V	64.20	-	-	-	0.048	-	-	-
393	39000	K	1KHz, 0.1V	74.20	-	-	-	0.042	-	-	-
473	47000	K	1KHz, 0.1V	96.40	-	-	-	0.038	-	-	-

LMax DIP Power Inductor



LMDP Series – Shielded Style P

FEATURES

- Density design, small size, and low cost
- Comparatively range rated current and high inductance
- Low DCR and high dip stability

APPLICATIONS

- Personal Computers
- Variety of Battery Power Equipment
- DC Power Supply Circuits

CHARACTERISTICS

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

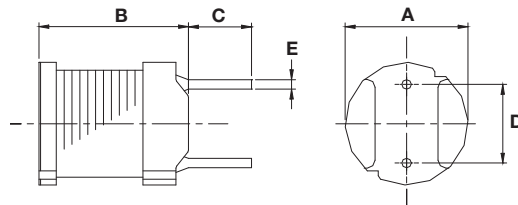
INDUCTANCE AND RATED CURRENT RANGES

- 0606 22 ~ 1000μH 0.96 ~ 0.14A
- 0807 22 ~ 10000μH 1.60 ~ 0.074A
- 1008 10 ~ 1000μH 2.80 ~ 0.28A
- 1010 10 ~ 1000μH 3.51 ~ 0.35A
- Electrical specifications at 25°C

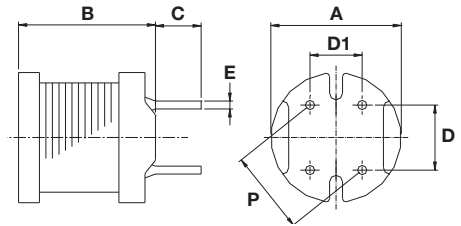
DIMENSIONS



LMDP 0606 / 0807



LMDP 1008 / 1010



mm (inches)

Type	A	B max.	C	D	D1	E	P
0606	6.00±0.50 (0.236±0.020)	6.50 (0.256)	4.00±1.00 (0.157±0.039)	4.00±0.30 (0.157±0.012)	-	0.50±0.10 (0.010±0.004)	-
0807	7.80±0.50 (0.307±0.020)	7.50 (0.295)	5.00±1.00 (0.197±0.039)	5.00±0.30 (0.197±0.012)	-	0.65±0.10 (0.026±0.004)	-
1008	10.0±0.50 (0.394±0.020)	8.50 (0.335)	3.50±1.00 (0.138±0.039)	5.00±0.30 (0.197±0.012)	4.00±0.30 (0.157±0.012)	0.65±0.10 (0.026±0.004)	6.40±0.50 (0.252±0.020)
1010	10.0±0.5 (0.394±0.020)	10.5 (0.413)	3.5±1.0 (0.138±0.039)	5.0±0.3 (0.197±0.012)	4.0±0.3 (0.157±0.012)	0.70±0.1 (0.028±0.004)	6.40±0.5 (0.252±0.020)

HOW TO ORDER

LM	DP	0606	M	101	P	T	A	B
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	DP = DIP	0606 = 6x6xh 0807 = 8x7xh 1008 = 10x8xh 1010 = 10x10xh (h = see catalog)	K = ±10% M = ±20%	100 = 10μH 101 = 100μH 102 = 1000μH 103 = 10000μH	T = Sn Plate	A = Standard B = Box		

LMax DIP Power Inductor



LMDP Series – Shielded Style P

ELECTRICAL CHARACTERISTICS

0606/0807/1008/1010

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.				IDC (A) max.			
				0606	0807	1008	1010	0606	0807	1008	1010
100	10	M	100KHz, 0.1V	–	–	0.05	0.023	–	–	2.80	3.51
120	12	M	100KHz, 0.1V	–	–	0.06	0.024	–	–	2.50	3.24
150	15	M	100KHz, 0.1V	–	–	0.07	0.036	–	–	2.30	2.88
180	18	M	100KHz, 0.1V	–	–	0.08	0.039	–	–	2.10	2.61
220	22	M	100KHz, 0.1V	0.13	0.08	0.09	0.042	0.96	1.60	2.00	2.34
270	27	M	100KHz, 0.1V	0.18	0.10	0.10	0.045	0.87	1.40	1.76	2.16
330	33	M	100KHz, 0.1V	0.21	0.14	0.11	0.057	0.78	1.30	1.60	1.89
390	39	M	100KHz, 0.1V	0.26	0.15	0.12	0.076	0.72	1.20	1.38	1.80
470	47	M	100KHz, 0.1V	0.29	0.17	0.14	0.100	0.66	1.10	1.28	1.62
560	56	M	100KHz, 0.1V	0.33	0.19	0.15	0.110	0.60	0.99	1.20	1.44
680	68	M	100KHz, 0.1V	0.36	0.21	0.16	0.150	0.55	0.89	1.00	1.35
820	82	M	100KHz, 0.1V	0.39	0.27	0.18	0.160	0.50	0.81	0.96	1.26
101	100	K	1KHz, 0.1V	0.54	0.32	0.20	0.190	0.45	0.74	0.92	1.08
121	120	K	1KHz, 0.1V	0.62	0.36	0.24	0.210	0.41	0.67	0.80	0.99
151	150	K	1KHz, 0.1V	0.72	0.51	0.35	0.230	0.37	0.60	0.73	0.90
181	180	K	1KHz, 0.1V	0.88	0.57	0.40	0.260	0.34	0.55	0.64	0.82
221	220	K	1KHz, 0.1V	0.99	0.76	0.54	0.290	0.30	0.50	0.61	0.74
271	270	K	1KHz, 0.1V	1.52	0.86	0.76	0.360	0.27	0.45	0.56	0.67
331	330	K	1KHz, 0.1V	1.69	0.97	0.86	0.510	0.25	0.41	0.50	0.61
391	390	K	1KHz, 0.1V	1.85	1.28	0.93	0.690	0.23	0.37	0.44	0.55
471	470	K	1KHz, 0.1V	2.85	1.44	1.23	0.980	0.21	0.34	0.41	0.51
561	560	K	1KHz, 0.1V	3.21	1.61	1.34	1.100	0.19	0.31	0.38	0.46
681	680	K	1KHz, 0.1V	3.60	2.07	1.53	1.200	0.17	0.28	0.34	0.42
821	820	K	1KHz, 0.1V	4.87	2.33	2.10	1.300	0.16	0.26	0.32	0.38
102	1000	K	1KHz, 0.1V	5.56	2.72	2.30	1.500	0.14	0.23	0.28	0.35
122	1200	K	1KHz, 0.1V	–	3.98	–	–	–	0.21	–	–
152	1500	K	1KHz, 0.1V	–	4.50	–	–	–	0.19	–	–
182	1800	K	1KHz, 0.1V	–	6.81	–	–	–	0.17	–	–
222	2200	K	1KHz, 0.1V	–	7.56	–	–	–	0.16	–	–
272	2700	K	1KHz, 0.1V	–	8.54	–	–	–	0.14	–	–
332	3300	K	1KHz, 0.1V	–	9.74	–	–	–	0.13	–	–
392	3900	K	1KHz, 0.1V	–	12.90	–	–	–	0.12	–	–
472	4700	K	1KHz, 0.1V	–	14.70	–	–	–	0.11	–	–
562	5600	K	1KHz, 0.1V	–	20.40	–	–	–	0.099	–	–
682	6800	K	1KHz, 0.1V	–	23.00	–	–	–	0.089	–	–
822	8200	K	1KHz, 0.1V	–	30.60	–	–	–	0.081	–	–
103	10000	K	1KHz, 0.1V	–	35.00	–	–	–	0.074	–	–

LMax DIP Power Inductor



LMDP Series – Shielded Style P

0809/1006/1008/1010

Codes	L (μ H)	Tolerance	Test Condition	DCR (Ω) max.				IDC (A) max.			
				0809	1006	1008	1010	0809	1006	1008	1010
100	10	M	100KHz, 0.1V	0.04	0.040	0.027	0.022	2.60	3.60	4.50	5.30
120	12	M	100KHz, 0.1V	0.04	0.044	0.031	0.023	2.60	3.30	4.10	4.90
150	15	M	100KHz, 0.1V	0.05	0.058	0.036	0.026	2.10	2.90	3.70	4.40
180	18	M	100KHz, 0.1V	0.05	0.064	0.049	0.033	2.00	2.70	3.40	4.00
220	22	M	100KHz, 0.1V	0.06	0.088	0.055	0.037	1.70	2.40	3.10	3.60
270	27	M	100KHz, 0.1V	0.06	0.100	0.062	0.048	1.60	2.20	2.80	3.30
330	33	M	100KHz, 0.1V	0.07	0.110	0.078	0.055	1.40	2.00	2.50	2.90
390	39	M	100KHz, 0.1V	0.08	0.140	0.087	0.073	1.40	1.80	2.30	2.70
470	47	M	100KHz, 0.1V	0.10	0.160	0.099	0.083	1.30	1.70	2.10	2.50
560	56	M	100KHz, 0.1V	0.11	0.190	0.130	0.092	1.20	1.50	1.90	2.30
680	68	M	100KHz, 0.1V	0.14	0.220	0.140	0.120	1.10	1.40	1.70	2.10
820	82	M	100KHz, 0.1V	0.16	0.290	0.160	0.140	1.00	1.30	1.60	1.90
101	100	K	1KHz, 0.1V	0.19	0.320	0.210	0.160	0.90	1.30	1.40	1.70
121	120	K	1KHz, 0.1V	0.22	0.380	0.240	0.200	0.82	1.20	1.30	1.50
151	150	K	1KHz, 0.1V	0.27	0.500	0.320	0.230	0.74	1.00	1.20	1.40
181	180	K	1KHz, 0.1V	0.31	0.560	0.350	0.310	0.71	0.84	1.10	1.30
221	220	K	1KHz, 0.1V	0.38	0.780	0.450	0.340	0.64	0.76	0.96	1.10
271	270	K	1KHz, 0.1V	0.53	0.920	0.610	0.400	0.57	0.69	0.87	1.00
331	330	K	1KHz, 0.1V	0.61	1.100	0.690	0.520	0.51	0.62	0.79	0.93
391	390	K	1KHz, 0.1V	0.69	1.300	0.780	0.650	0.48	0.57	0.72	0.86
471	470	K	1KHz, 0.1V	0.89	1.500	1.000	0.710	0.43	0.52	0.66	0.78
561	560	K	1KHz, 0.1V	1.01	1.900	1.200	1.000	0.40	0.48	0.60	0.71
681	680	K	1KHz, 0.1V	1.18	2.200	1.400	1.100	0.35	0.43	0.55	0.65
821	820	K	1KHz, 0.1V	1.57	2.600	1.800	1.300	0.32	0.40	0.50	0.59
102	1000	K	1KHz, 0.1V	1.84	3.200	2.100	1.700	0.30	0.36	0.45	0.53
122	1200	K	1KHz, 0.1V	2.10	-	-	-	0.27	-	-	-
152	1500	K	1KHz, 0.1V	2.80	-	-	-	0.23	-	-	-
182	1800	K	1KHz, 0.1V	3.21	-	-	-	0.21	-	-	-
222	2200	K	1KHz, 0.1V	4.21	-	-	-	0.19	-	-	-
272	2700	K	1KHz, 0.1V	4.94	-	-	-	0.17	-	-	-
332	3300	K	1KHz, 0.1V	6.16	-	-	-	0.15	-	-	-
392	3900	K	1KHz, 0.1V	6.84	-	-	-	0.14	-	-	-
472	4700	K	1KHz, 0.1V	7.89	-	-	-	0.13	-	-	-
562	5600	K	1KHz, 0.1V	11.50	-	-	-	0.12	-	-	-
682	6800	K	1KHz, 0.1V	13.20	-	-	-	0.11	-	-	-
822	8200	K	1KHz, 0.1V	15.20	-	-	-	0.10	-	-	-
103	10000	K	1KHz, 0.1V	22.00	-	-	-	0.089	-	-	-
123	12000	K	1KHz, 0.1V	25.00	-	-	-	0.073	-	-	-
153	15000	K	1KHz, 0.1V	29.10	-	-	-	0.068	-	-	-
183	18000	K	1KHz, 0.1V	38.90	-	-	-	0.066	-	-	-
223	22000	K	1KHz, 0.1V	44.90	-	-	-	0.059	-	-	-
273	27000	K	1KHz, 0.1V	55.70	-	-	-	0.052	-	-	-
333	33000	K	1KHz, 0.1V	64.20	-	-	-	0.048	-	-	-
393	39000	K	1KHz, 0.1V	74.20	-	-	-	0.042	-	-	-
473	47000	K	1KHz, 0.1V	96.40	-	-	-	0.038	-	-	-

LMax DIP Power Inductor



LMDP Series – Shielded Style S

FEATURES

- Ultra low cost
- Shielded construction
- High current rating up DC 40A
- High frequency range up to 500KHz
- Very low DC resistance
- Low noise

APPLICATIONS

- Motherboards For Laptop And Desktop Computers
- DC/DC Converter

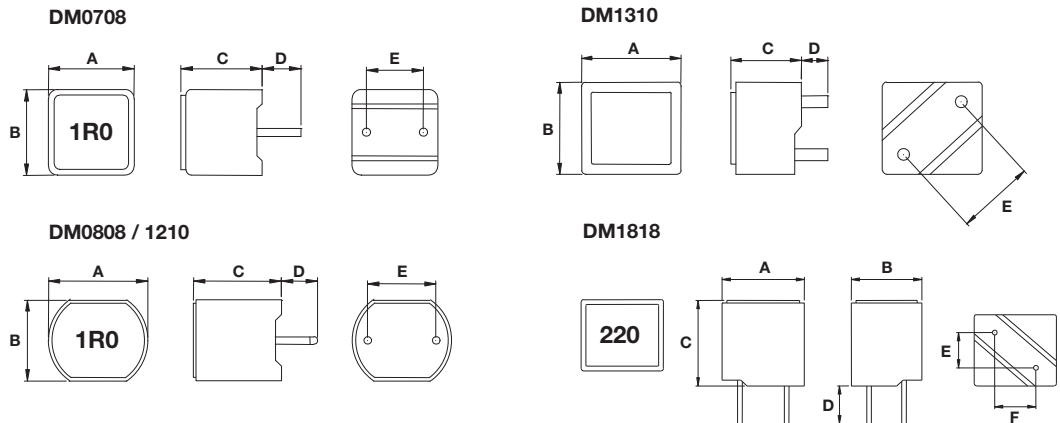
CHARACTERISTICS

- Saturation Rated Current (IDC/Isat) : The DC current when the inductance becomes 20% Typical its initial value. (Ta=25°C)
- Temperature Rise Current (Irms): The actual current when temperature of coil becomes Δ40°C (Ta=25°C)
- Operating Temperature Range: -25°C ~ 125°C

INDUCTANCE AND RATED CURRENT RANGES

- 0707 0.56 ~ 4.7μH 32A ~ 12A
- 0907 0.56 ~ 4.7μH 32A ~ 12A
- 1210 0.22 ~ 4.7μH 56A ~ 15A
- 1312 0.33 ~ 2.2μH 55A ~ 25A
- 1815 10.0 ~ 33μH 11A ~ 6A
- Electrical specifications at 25°C

DIMENSIONS



mm (inches)

Type	A	B	C max.	D	E	F
0707	7.50±0.50 (0.295±0.020)	7.50±0.50 (0.295±0.020)	8.50 (0.335)	3.40±0.50 (0.134±0.020)	5.00±0.40 (0.197±0.016)	-
0907	8.70±0.50 (0.343±0.020)	7.20±0.50 (0.283±0.020)	8.50 (0.335)	3.40±0.50 (0.134±0.020)	6.00±0.50 (0.236±0.020)	-
1210	12.3±0.50 (0.484±0.020)	10.2±0.50 (0.402±0.020)	10.0 (0.394)	3.40±0.50 (0.134±0.020)	8.00±0.50 (0.315±0.020)	-
1312	13.0±0.50 (0.512±0.020)	12.0±0.50 (0.472±0.020)	10.0 (0.394)	3.40±0.50 (0.134±0.020)	10.0±0.50 (0.394±0.020)	-
1815	18.0 max (0.709)	15.5 max (0.610)	18.0 (0.709)	8.00±0.50 (0.315±0.020)	7.00±0.50 (0.276±0.020)	5.00±0.10 (0.197±0.004)

LMax DIP Power Inductor



LMDP Series – Shielded Style S

HOW TO ORDER

LM	DP	0707	M	101	S	T	A	B
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	DP = DIP	0707 = 7x7xh 0907 = 9x7xh 1210 = 12x10xh 1312 = 13x12xh 1815 = 18x15xh (h = see catalog)	M = ±20%	R56 = 0.56µH 2R2 = 2.20µH 100 = 10.0µH 330 = 33.0µH		T = Sn Plate	A = Standard	B = Box

ELECTRICAL CHARACTERISTICS

0707

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
R56	0.56	M	100KHz, 0.1V	2.50	32
1R0	1.0	M	100KHz, 0.1V	5.60	21
1R5	1.5	M	100KHz, 0.1V	7.50	18
2R2	2.2	M	100KHz, 0.1V	10.0	16
2R8	2.8	M	100KHz, 0.1V	11.8	15
3R3	3.3	M	100KHz, 0.1V	13.6	14
4R7	4.7	M	100KHz, 0.1V	17.0	12

0907

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
R56	0.56	M	100KHz, 0.1V	2.50	32
1R0	1.0	M	100KHz, 0.1V	5.60	21
1R5	1.5	M	100KHz, 0.1V	7.50	18
2R2	2.2	M	100KHz, 0.1V	10.0	16
2R8	2.8	M	100KHz, 0.1V	11.8	15
3R3	3.3	M	100KHz, 0.1V	13.6	14
4R7	4.7	M	100KHz, 0.1V	17.0	12

1210

Codes	L (µH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
R22	0.22	M	100KHz, 0.1V	0.60	56
R33	0.33	M	100KHz, 0.1V	0.80	48
R36	0.36	M	100KHz, 0.1V	0.80	45
R39	0.39	M	100KHz, 0.1V	0.80	45
R47	0.47	M	100KHz, 0.1V	1.00	40
R56	0.56	M	100KHz, 0.1V	1.00	40
R60	0.60	M	100KHz, 0.1V	1.00	40
R68	0.68	M	100KHz, 0.1V	1.00	40
R80	0.80	M	100KHz, 0.1V	1.25	36
1R0	1.0	M	100KHz, 0.1V	2.00	32
1R5	1.5	M	100KHz, 0.1V	3.50	30
2R2	2.2	M	100KHz, 0.1V	5.00	24
2R8	2.8	M	100KHz, 0.1V	6.40	20
3R3	3.3	M	100KHz, 0.1V	7.70	16
4R7	4.7	M	100KHz, 0.1V	10.0	15

LMax DIP Power Inductor



LMDP Series – Shielded Style S

1312

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
R33	0.33	M	100KHz, 0.1V	0.65	55
R39	0.39	M	100KHz, 0.1V	0.65	55
R47	0.47	M	100KHz, 0.1V	0.80	54
R56	0.56	M	100KHz, 0.1V	0.80	52
R60	0.60	M	100KHz, 0.1V	0.80	52
R68	0.68	M	100KHz, 0.1V	0.80	50
R80	0.80	M	100KHz, 0.1V	0.85	48
1R0	1.00	M	100KHz, 0.1V	1.35	40
1R5	1.50	M	100KHz, 0.1V	1.70	38
2R2	2.20	M	100KHz, 0.1V	3.30	25

1815

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.		I sat (A) max.	I _{rms} (A) max
				Typical	max.		
100	10	M	10KHz, 0.1V	10.0	13.0	11.0	11.0
150	15	M	10KHz, 0.1V	13.0	17.0	10.0	10.0
220	22	M	10KHz, 0.1V	16.0	20.0	8.0	8.0
330	33	M	10KHz, 0.1V	23.0	25.0	6.0	6.0

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