LMax Low Profile Power Inductor

LMLP Series – Style C

FEATURES

- Small and low profile inductor
- It corresponds to high current
- Simple and original magnetic shield structure

APPLICATIONS

•For small DC/DC converter
(cellular phone, HDD, DVC, DSC, PDA, LCD display etc.)

CHARACTERISTICS

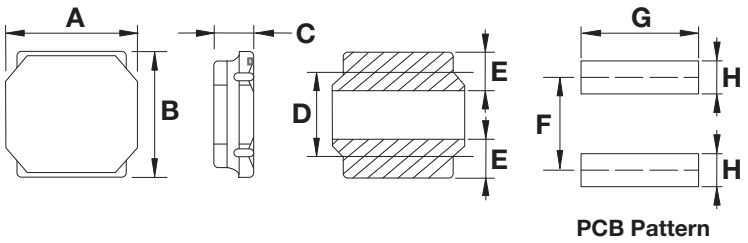
- Operating Temperature Range: -40°C to +125°C
- Storage Temperature Range: -40°C to +85°C
- Saturation Current: The saturation current value (ISAT) is the DC current value when the inductance decreases by 30% of it initial value (at 20ºC).
- Temperature Rise Current: The temperature rise current value (IRMS) is the DC current value that increases component temperature by up to 40ºC.

INDUCTANCE AND RATED CURRENT RANGES

• 0202	2.2 ~ 22µH	1.290 ~ 0.390A
• 0303	1.0 ~ 47µH	1.30 ~ 0.220A
• 03A3	1.0 ~ 47µH	1.50 ~0.250A
• 03B3	1.0 ~ 47µH	2.10 ~ 0.320A
• 0404	1.0 ~ 47µH	1.80 ~ 0.240A
• 04A4	1.0 ~ 47µH	2.50 ~ 0.350A
• 04B4	1.0 ~ 220µH	4.0 ~ 0.270A
• 0505	10µH	1.00A
• 05B5	1.50 ~ 22.0µH	3.35 ~ 0.90A
• 05D5	1.50 ~ 47.0µH	6.00 ~ 1.10A
• 0606	4.7 ~ 10.0µH	1.40 ~ 1.00A
• 06A6	2.50 ~ 100µH	2.10 ~ 0.35A
• 06B6	0.80 ~ 22.0µH	5.50 ~ 1.05A
• 06C6	1.50 ~ 100µH	5.00 ~ 0.62A
• 06D6	1.30 ~ 100µH	8.00 ~ 0.80A
• 0808	0.90 ~ 100µH	11.0 ~ 1.00A

RoHS COMPLIANT

DIMENSIONS



PCB Pattern

mm (inches)

Type	A	B	C max	D	E	F	G	H
0202	2.40 ± 0.10 (0.095 ± 0.004)	2.40 ± 0.10 (0.095 ± 0.004)	1.00 (0.039)	1.45 ± 0.20 (0.057 ± 0.008)	0.60 ± 0.20 (0.240 ± 0.008)	1.45 (0.057)	2.00 (0.079)	0.70 (0.028)
0303	3.00 ± 0.20 (0.118 ± 0.008)	3.00 ± 0.20 (0.118 ± 0.008)	1.00 (0.039)	1.90 ± 0.20 (0.075 ± 0.008)	0.90 ± 0.20 (0.035 ± 0.008)	2.20 (0.087)	2.70 (0.106)	0.80 (0.032)
03A3	3.00 ± 0.20 (0.118 ± 0.008)	3.00 ± 0.20 (0.118 ± 0.008)	1.20 (0.047)	1.90 ± 0.20 (0.075 ± 0.008)	0.90 ± 0.20 (0.035 ± 0.008)	2.20 (0.087)	2.70 (0.106)	0.80 (0.032)
03B3	3.00 ± 0.20 (0.118 ± 0.008)	3.00 ± 0.20 (0.118 ± 0.008)	1.50 (0.059)	1.90 ± 0.20 (0.075 ± 0.008)	0.90 ± 0.20 (0.035 ± 0.008)	2.20 (0.087)	2.70 (0.106)	0.80 (0.032)
0404	4.00 ± 0.20 (0.157 ± 0.008)	4.00 ± 0.20 (0.157 ± 0.008)	1.00 (0.039)	2.50 ± 0.20 (0.099 ± 0.008)	1.10 ± 0.20 (0.043 ± 0.008)	2.80 (0.110)	3.70 (0.146)	1.20 (0.047)
04A4	4.00 ± 0.20 (0.157 ± 0.008)	4.00 ± 0.20 (0.157 ± 0.008)	1.20 (0.047)	2.50 ± 0.20 (0.099 ± 0.008)	1.10 ± 0.20 (0.043 ± 0.008)	2.80 (0.110)	3.70 (0.146)	1.20 (0.047)
04B4	4.00 ± 0.20 (0.157 ± 0.008)	4.00 ± 0.20 (0.157 ± 0.008)	1.80 (0.071)	2.50 ± 0.20 (0.099 ± 0.008)	1.10 ± 0.20 (0.043 ± 0.008)	2.80 (0.110)	3.70 (0.146)	1.20 (0.047)
0505	5.00 ± 0.20 (0.197 ± 0.008)	5.00 ± 0.20 (0.197 ± 0.008)	1.00 (0.039)	3.50 ± 0.20 (0.138 ± 0.008)	1.50 ± 0.20 (0.059 ± 0.008)	3.80 (0.150)	4.70 (0.185)	1.60 (0.063)
05B5	5.00 ± 0.20 (0.197 ± 0.008)	5.00 ± 0.20 (0.197 ± 0.008)	2.00 (0.078)	3.50 ± 0.20 (0.138 ± 0.008)	1.50 ± 0.20 (0.059 ± 0.008)	3.80 (0.150)	4.70 (0.185)	1.60 (0.063)
05D5	5.00 ± 0.20 (0.197 ± 0.008)	5.00 ± 0.20 (0.197 ± 0.008)	4.00 (0.157)	3.50 ± 0.20 (0.138 ± 0.008)	1.50 ± 0.20 (0.059 ± 0.008)	3.80 (0.150)	4.70 (0.185)	1.60 (0.063)
0606	6.00 ± 0.20 (0.236 ± 0.008)	6.00 ± 0.20 (0.236 ± 0.008)	1.00 ± 0.10 (0.039 ± 0.004)	4.00 ± 0.20 (0.157 ± 0.008)	1.35 ± 0.20 (0.053 ± 0.008)	4.70 (0.185)	5.70 (0.224)	1.60 (0.063)
06A6	6.00 ± 0.20 (0.236 ± 0.008)	6.00 ± 0.20 (0.236 ± 0.008)	1.20 (0.047)	4.00 ± 0.20 (0.157 ± 0.008)	1.35 ± 0.20 (0.053 ± 0.008)	4.70 (0.185)	5.70 (0.224)	1.60 (0.063)
06B6	6.00 ± 0.20 (0.236 ± 0.008)	6.00 ± 0.20 (0.236 ± 0.008)	2.00 (0.078)	4.00 ± 0.20 (0.157 ± 0.008)	1.35 ± 0.20 (0.053 ± 0.008)	4.70 (0.185)	5.70 (0.224)	1.60 (0.063)
06C6	6.00 ± 0.20 (0.236 ± 0.008)	6.00 ± 0.20 (0.236 ± 0.008)	2.80 (0.110)	4.00 ± 0.20 (0.157 ± 0.008)	1.35 ± 0.20 (0.053 ± 0.008)	4.70 (0.185)	5.70 (0.224)	1.60 (0.063)
06D6	6.00 ± 0.20 (0.236 ± 0.008)	6.00 ± 0.20 (0.236 ± 0.008)	4.50 (0.177)	4.00 ± 0.20 (0.157 ± 0.008)	1.35 ± 0.20 (0.053 ± 0.008)	4.70 (0.185)	5.70 (0.224)	1.60 (0.063)
0808	8.00 ± 0.20 (0.315 ± 0.008)	8.00 ± 0.20 (0.315 ± 0.008)	4.20 (0.165)	5.60 ± 0.30 (0.220 ± 0.011)	1.60 ± 0.30 (0.063 ± 0.011)	5.60 (0.220)	7.50 (0.188)	1.80 (0.071)

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HOW TO ORDER

LM	LP	0303	M	R04	C	T	A	S
Family LM = Power Inductor	**Series** LP = Low Profile	**Size** 0303 = 3x3xh 03A3 = 3x3xA(h) (h = see catalog)	**Tolerance** M = 20% N = 30%	**Inductance** R39 = 0.390µH 3R9 = 3.900µH 390 = 39.00µH 391 = 390.0µH	**Style**	**Termination** T = Sn Plate	**Special** A = Standard	**Packaging** R = 7" Reel S = 13" Reel

ELECTRICAL CHARACTERISTICS

0202

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP0202N2R2CTAR	2.2	±30%	1.29	0.97	0.15
LMLP0202N3R3CTAR	3.3	±30%	1	0.77	0.22
LMLP0202N4R7CTAR	4.7	±30%	0.88	0.67	0.29
LMLP0202N6R8CTAR	6.8	±30%	0.75	0.57	0.41
LMLP0202M100CTAR	10	±20%	0.55	0.45	0.69
LMLP0202M150CTAR	15	±20%	0.47	0.37	1.02
LMLP0202M220CTAR	22	±20%	0.39	0.3	1.47

0303

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP0303N1R0CTAR	1.0	±30%	1.3	1.4	0.065
LMLP0303N1R5CTAR	1.5	±30%	1.2	1.3	0.08
LMLP0303N2R2CTAR	2.2	±30%	1.1	1.1	0.095
LMLP0303N3R3CTAR	3.3	±30%	0.87	0.94	0.14
LMLP0303N4R7CTAR	4.7	±30%	0.75	0.78	0.19
LMLP0303N6R8CTAR	6.8	±30%	0.61	0.63	0.3
LMLP0303M100CTAR	10	±20%	0.5	0.51	0.45
LMLP0303M150CTAR	15	±20%	0.4	0.4	0.74
LMLP0303M220CTAR	22	±20%	0.35	0.35	1.03
LMLP0303M330CTAR	33	±20%	0.26	0.275	1.55
LMLP0303M470CTAR	47	±20%	0.22	0.235	2.05

03A2

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP03A2N1R0CTAR	1.0	±30%	1.5	1.49	0.05
LMLP03A2N1R5CTAR	1.5	±30%	1.36	1.4	0.06
LMLP03A2N2R2CTAR	2.2	±30%	1.1	1.2	0.08
LMLP03A2N3R3CTAR	3.3	±30%	0.91	1.05	0.1
LMLP03A2N4R7CTAR	4.7	±30%	0.77	0.98	0.13
LMLP03A2N6R8CTAR	6.8	±30%	0.67	0.74	0.19
LMLP03A2M100CTAR	10	±20%	0.54	0.63	0.29
LMLP03A2M150CTAR	15	±20%	0.44	0.485	0.45
LMLP03A2M220CTAR	22	±20%	0.37	0.42	0.63
LMLP03A2M330CTAR	33	±20%	0.31	0.33	1.03
LMLP03A2M470CTAR	47	±20%	0.25	0.28	1.45

*The saturation current value (ISAT) is the DC current value when the inductance decreases by 30% of it initial value (at 20ºC).
**The temperature rise current value (IRMS) is the DC current value that increases component temperature by up to 40ºC.

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03B3

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP03B3N1R0CTAR	1.0	±30%	2.1	2.1	0.03
LMLP03B3N1R5CTAR	1.5	±30%	1.8	1.82	0.04
LMLP03B3N2R2CTAR	2.2	±30%	1.48	1.5	0.06
LMLP03B3N3R3CTAR	3.3	±30%	1.21	1.23	0.08
LMLP03B3N4R7CTAR	4.7	±30%	1.02	1.04	0.12
LMLP03B3N6R8CTAR	6.8	±30%	0.87	0.88	0.16
LMLP03B3M100CTAR	10	±20%	0.7	0.71	0.23
LMLP03B3M150CTAR	15	±20%	0.56	0.56	0.36
LMLP03B3M220CTAR	22	±20%	0.47	0.47	0.52
LMLP03B3M330CTAR	33	±20%	0.39	0.37	0.84
LMLP03B3M470CTAR	47	±20%	0.32	0.3	1.34

0404

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP0404N1R0CTAS	1.0	±30%	1.8	1.05	0.1
LMLP0404N2R2CTAS	2.2	±30%	1.15	0.89	0.15
LMLP0404N3R3CTAS	3.3	±30%	1.1	0.82	0.18
LMLP0404N4R7CTAS	4.7	±30%	0.9	0.75	0.21
LMLP0404N6R8CTAS	6.8	±30%	0.74	0.62	0.3
LMLP0404N100CTAS	10	±30%	0.56	0.6	0.38
LMLP0404M150CTAS	15	±20%	0.47	0.51	0.51
LMLP0404M220CTAS	22	±20%	0.36	0.4	0.87
LMLP0404M330CTAS	33	±20%	0.28	0.3	1.54
LMLP0404M470CTAS	47	±20%	0.24	0.28	1.81

04A4

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP04A4N1R0CTAS	1.0	±30%	2.5	1.5	0.06
LMLP04A4N2R2CTAS	2.2	±30%	1.65	1.2	0.09
LMLP04A4N3R3CTAS	3.3	±30%	1.2	0.98	0.13
LMLP04A4N4R7CTAS	4.7	±30%	1.05	0.96	0.14
LMLP04A4N6R8CTAS	6.8	±30%	0.9	0.84	0.18
LMLP04A4M100CTAS	10	±20%	0.74	0.77	0.24
LMLP04A4M150CTAS	15	±20%	0.56	0.6	0.4
LMLP04A4M220CTAS	22	±20%	0.51	0.54	0.48
LMLP04A4M330CTAS	33	±20%	0.4	0.42	0.81
LMLP04A4M470CTAS	47	±20%	0.35	0.37	1

*The saturation current value (ISAT) is the DC current value when the inductance decreases by 30% of it initial value (at 20ºC).
**The temperature rise current value (IRMS) is the DC current value that increases component temperature by up to 40ºC.

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04B4

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP04B4N1R0CTAS	1.0	±30%	4	1.83	0.03
LMLP04B4N2R2CTAS	2.2	±30%	2.7	1.44	0.06
LMLP04B4N3R3CTAS	3.3	±30%	2	1.23	0.07
LMLP04B4N4R7CTAS	4.7	±30%	1.7	1.2	0.09
LMLP04B4N6R8CTAS	6.8	±30%	1.45	1.06	0.11
LMLP04B4M100CTAS	10	±20%	1.2	0.84	0.18
LMLP04B4M150CTAS	15	±20%	0.94	0.65	0.28
LMLP04B4M220CTAS	22	±20%	0.8	0.59	0.36
LMLP04B4M330CTAS	33	±20%	0.65	0.49	0.53
LMLP04B4M470CTAS	47	±20%	0.57	0.42	0.65
LMLP04B4M680CTAS	68	±20%	0.47	0.32	1
LMLP04B4M101CTAS	100	±20%	0.4	0.27	1.5
LMLP04B4M151CTAS	150	±20%	0.31	0.22	2.5
LMLP04B4M221CTAS	220	±20%	0.27	0.17	4

0505

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP0505M100CTAR	10	±20%	1	0.94	0.48

05B5

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP05B5N1R5CTAR	1.5	±30%	3.35	3.2	0.026
LMLP05B5N2R2CTAR	2.2	±30%	2.9	2.9	0.035
LMLP05B5N3R3CTAR	3.3	±30%	2.4	2.4	0.048
LMLP05B5N4R7CTAR	4.7	±30%	2	2	0.06
LMLP05B5N6R8CTAR	6.8	±30%	1.6	1.65	0.09
LMLP05B5M100CTAR	10	±20%	1.3	1.45	0.12
LMLP05B5M150CTAR	15	±20%	1.1	1.2	0.165
LMLP05B5M220CTAR	22	±20%	0.9	1	0.26

05D5

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP05D5N1R5CTAS	1.5	±30%	6	3.6	0.02
LMLP05D5N2R2CTAS	2.2	±30%	4.6	3.5	0.022
LMLP05D5N3R3CTAS	3.3	±30%	3.8	3.3	0.027
LMLP05D5N4R7CTAS	4.7	±30%	3.3	3.1	0.029
LMLP05D5N6R8CTAS	6.8	±30%	2.6	2.3	0.049
LMLP05D5M100CTAS	10	±20%	2.3	2.1	0.056
LMLP05D5M150CTAS	15	±20%	2	1.8	0.08
LMLP05D5M220CTAS	22	±20%	1.6	1.4	0.126
LMLP05D5M330CTAS	33	±20%	1.3	1.2	0.18
LMLP05D5M470CTAS	47	±20%	1.1	0.9	0.31

*The saturation current value (ISAT) is the DC current value when the inductance decreases by 30% of it initial value (at 20ºC).
**The temperature rise current value (IRMS) is the DC current value that increases component temperature by up to 40ºC.

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0606

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP0606N4R7CTAR	4.7	±30%	1.4	1.4	0.29
LMLP0606N6R8CTAR	6.8	±30%	1.2	1	0.372
LMLP0606M100CTAR	10	±20%	1	0.85	0.5

06A6

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP06A6N2R5CTAR	2.5	±30%	2.1	1.73	0.09
LMLP06A6N4R0CTAR	4	±30%	1.8	1.57	0.105
LMLP06A6N5R0CTAR	5	±30%	1.5	1.4	0.11
LMLP06A6N6R8CTAR	6.8	±30%	1.3	1.18	0.165
LMLP06A6M100CTAR	10	±20%	1	1	0.235
LMLP06A6M150CTAR	15	±20%	0.8	0.79	0.33
LMLP06A6M220CTAR	22	±20%	0.76	0.63	0.53
LMLP06A6M330CTAR	33	±20%	0.59	0.53	0.7
LMLP06A6M470CTAR	47	±20%	0.52	0.46	1.05
LMLP06A6M680CTAR	68	±20%	0.44	0.41	1.35
LMLP06A6M101CTAR	100	±20%	0.35	0.32	2.18

06B6

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP06B6N0R8CTAS	0.8	±30%	5.5	3.8	0.02
LMLP06B6N1R5CTAS	1.5	±30%	4	3.2	0.026
LMLP06B6N2R2CTAS	2.2	±30%	3.2	2.7	0.034
LMLP06B6N3R3CTAS	3.3	±30%	2.8	2.6	0.04
LMLP06B6N4R7CTAS	4.7	±30%	2.4	2	0.058
LMLP06B6N6R8CTAS	6.8	±30%	2	1.8	0.085
LMLP06B6M100CTAS	10	±20%	1.7	1.4	0.125
LMLP06B6M220CTAS	22	±20%	1.05	0.95	0.29

06C6

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP06C6N1R5CTAS	1.5	±30%	5	4.2	0.016
LMLP06C6N2R2CTAS	2.2	±30%	4.2	3.7	0.02
LMLP06C6N3R0CTAS	3	±30%	3.6	3.4	0.023
LMLP06C6N4R7CTAS	4.7	±30%	2.7	3	0.031
LMLP06C6N6R0CTAS	6	±30%	2.5	2.5	0.04
LMLP06C6M100CTAS	10	±20%	1.9	1.9	0.065
LMLP06C6M150CTAS	15	±20%	1.6	1.8	0.095
LMLP06C6M220CTAS	22	±20%	1.3	1.4	0.135
LMLP06C6M330CTAS	33	±20%	1.1	1.1	0.22
LMLP06C6M470CTAS	47	±20%	0.95	0.92	0.3
LMLP06C6M680CTAS	68	±20%	0.76	0.77	0.42
LMLP06C6M101CTAS	100	±20%	0.62	0.66	0.6

*The saturation current value (ISAT) is the DC current value when the inductance decreases by 30% of it initial value (at 20ºC).
**The temperature rise current value (IRMS) is the DC current value that increases component temperature by up to 40ºC.

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06D6

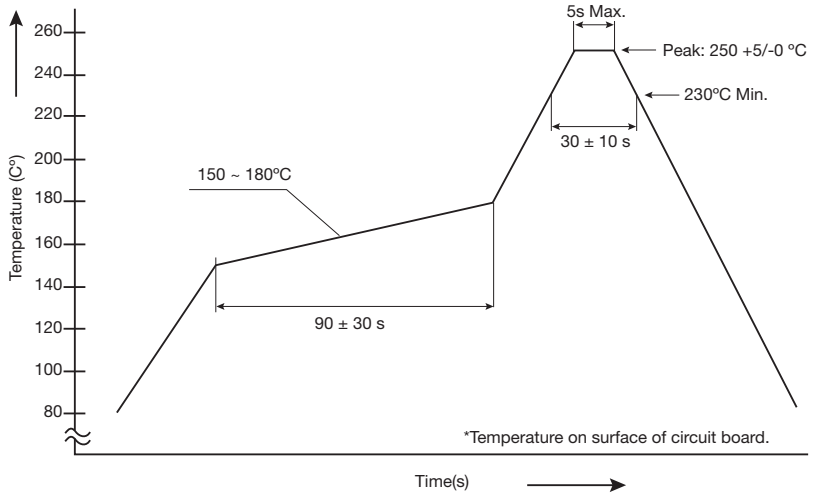
AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP06D6N1R3CTAS	1.3	±30%	8	4	0.016
LMLP06D6N1R8CTAS	1.8	±30%	7	3.7	0.018
LMLP06D6N2R3CTAS	2.3	±30%	6	3.5	0.021
LMLP06D6N3R0CTAS	3	±30%	5	3.2	0.024
LMLP06D6N4R5CTAS	4.5	±30%	4	3	0.031
LMLP06D6N6R3CTAS	6.3	±30%	3.8	2.8	0.038
LMLP06D6M100CTAS	10	±20%	3	2.5	0.047
LMLP06D6M150CTAS	15	±20%	2.3	1.9	0.077
LMLP06D6M220CTAS	22	±20%	1.9	1.5	0.115
LMLP06D6M330CTAS	33	±20%	1.5	1.4	0.145
LMLP06D6M470CTAS	47	±20%	1.3	1.1	0.22
LMLP06D6M680CTAS	68	±20%	1	0.9	0.33
LMLP06D6M101CTAS	100	±20%	0.8	0.7	0.5

0808

AVX PN	L (µH) at 100KHz 1.0V	Tolerance	I_{SAT}* (A)	I_{RMS}** (A)	DCR ±20% (Ω)
LMLP0808N0R9CTAS	0.9	±30%	11	7.8	0.006
LMLP0808N1R4CTAS	1.4	±30%	9	7	0.007
LMLP0808N2R0CTAS	2	±30%	7.4	6.3	0.009
LMLP0808N3R6CTAS	3.6	±30%	5.3	4.9	0.015
LMLP0808N4R7CTAS	4.7	±30%	4.7	4.1	0.018
LMLP0808N6R8CTAS	6.8	±30%	4	3.7	0.025
LMLP0808M100CTAS	10	±20%	3.4	3.1	0.034
LMLP0808M150CTAS	15	±20%	2.7	2.4	0.05
LMLP0808M220CTAS	22	±20%	2.2	2.2	0.066
LMLP0808M330CTAS	33	±20%	1.9	1.7	0.1
LMLP0808M470CTAS	47	±20%	1.5	1.4	0.15
LMLP0808M680CTAS	68	±20%	1.2	1.1	0.23
LMLP0808M101CTAS	100	±20%	1	1	0.29

*The saturation current value (ISAT) is the DC current value when the inductance decreases by 30% of it initial value (at 20ºC).
**The temperature rise current value (IRMS) is the DC current value that increases component temperature by up to 40ºC.

RECOMMENDED REFLOW PROFILE

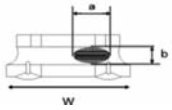
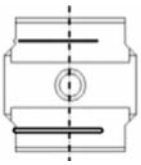


The products may be exposed to reflow soldering process of above profile tup to two times.

LMax Low Profile Power Inductor

LMLP Series – Style C

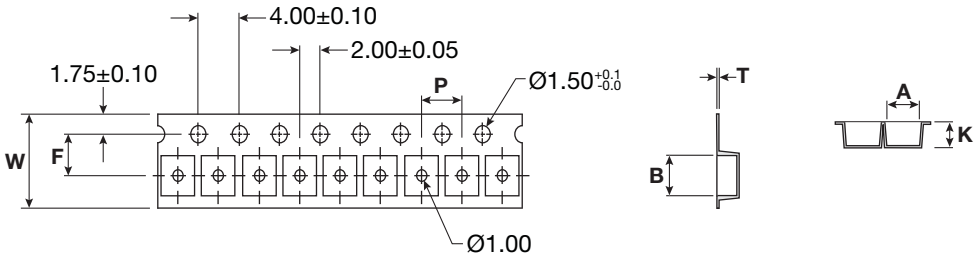
TEST CONDITIONS

ITEM	SPECIFICATION DESCRIPTION	TEST METHOD
Temperature Range	Operation temp.:-40ºC ~ +125℃(Including self-generated heat) Storage temp.: -40ºC ~ +85ºC	–
Appearance	No defects or abnormalities.	Visual inspection
Core Chipping	The appearance standard of the chipping size in top side, of bottom side ferrite core is following dimension. L: 0.5 mm (max) W: 0.5 mm (max)	 Using calipers
Void Appearance Exposed	Size of voids occurring to coating resin is specified as following. 1. Width direction (dimension a): acceptable when a ≦w/2 nonconforming when a > w/2 2. Length direction (dimension b): it is not specified. 3. When total area of voids(including one exposing coil) occurring to each sides is not greater than 50% of coating resin area that is acceptable	 Using calipers
Electrode Appearance Criterion for Exposed Wire	 <Cross section of wire joint part>  Only top side of wire exposed. (regardlesss of whole top side of wire exposed)  Wire is soldered insufficiently and less than half of outer diameter is covered with solder. <Appearance judgement> Conforming Less than 1/2 of joint side Lenght (More than 1/2 is selected as defect	Visual inspection
Solderability		Solder heat proof: 1. Preheating: 160±10ºC 90s 2. Retention time: 245±5ºC for 3 ± 1 sec
Vibration	Inductance change: within ± 10% without mechanical damage such as break	1. Vibration frequency: (10Hz to 55Hz to 10Hz) in 60 sec. as a period 2. Vibration time: period cycled for 2 hr in each of 3 mutual perpendicular directions 3. Amplitude: 1.5mm max.
Terminal Strength	No detachment of terminal pin and no breakage of wire	Add static load 4.9N(500gf) to inductor through hole of test board for 10 ± 2 sec
Thermal Shock	Inductance change: within ± 10% without mechanical damage such as break	1. Repeat 100 cycles as follow: (-40ºC ± 2ºC, 30 ± 3 minutes) ➞ (room temperature , 5 minutes) ➞ (+125ºC ± 2ºC, 30 ± 3 minutes) ➞ (room temperature , 5 minutes) 2. Recovery: 48 +4/-0 hours of recovery under the standard condition after the test.
High Temperature Resistance	Inductance change: within ± 10% without mechanical damage such as break	1. Environment condition: 85ºC ± 2ºC 2. Applied current: rated current 3. Duration: 500 +4/-0 hours
Humidity Resistance	Inductance change: within ± 10% without mechanical damage such as break	1. Environment condition: 60ºC ± 2ºC 2. Humidity: 90~95% 3. Applied current: rated current 4. Duration: 500 +4/-0 hours
Low Temperature Storage	Inductance change: within ± 10% without mechanical damage such as break	Store temperature: -40ºC ± 2ºC for total 500 +4/-0 hours
High Temperature Storage	Inductance change: within ± 10% without mechanical damage such as break	Store temperature: +125ºC ± 2ºC for total 500 +4/-0 hours
Inductance	a. Temperature: 25 ± 3ºC b. Relative Humidity: 45 to 75%RH c. Measuring equipment: Current measure: Chroma 3302 + Chroma 1320	Within specified tolerance
DC Resistance	Measuring instrument: Chroma A165022	In accordance with electrical specification.

LMax Low Profile Power Inductor

LMLP Series – Style C

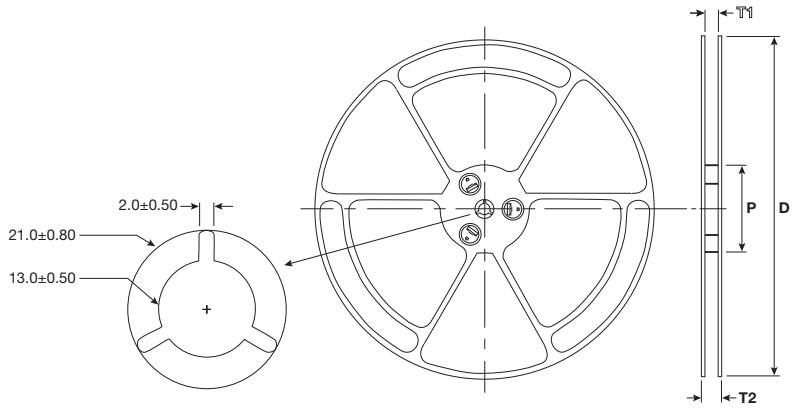
PACKAGING SPECIFICATIONS – CARRIER TAPE DIMENSIONS



mm (inches)

AVX PN	A	B	P	F	W	T	K	Reel Size	SPQ
LMLP0202****CTAR	2.6 ± 0.1 (0.102 ± 0.004)	2.6 ± 0.1 (0.102 ± 0.004)	4 ± 0.1 (0.157±0.004)	3.5 ± 0.1 (0.138 ± 0.004)	8.0 ± 0.2 (0.315 ± 0.008)	0.25 ± 0.05 (0.009 ± 0.002)	1.3 ± 0.1 (0.051 ± 0.004)	7"	2500
LMLP0303****CTAR	3.2 ± 0.1 (0.126 ± 0.004)	3.2 ± 0.1 (0.126 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	3.5 ± 0.1 (0.138 ± 0.004)	8.0 ± 0.2 (0.315 ± 0.008)	0.3 ± 0.05 (0.012 ± 0.002)	1.4 ± 0.1 (0.055 ± 0.004)	7"	2000
LMLP03A3****CTAR	3.2 ± 0.1 (0.126 ± 0.004)	3.2 ± 0.1 (0.126 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	3.5 ± 0.1 (0.138 ± 0.004)	8.0 ± 0.2 (0.315 ± 0.008)	0.3 ± 0.05 (0.012 ± 0.002)	1.6 ± 0.1 (0.063 ± 0.004)	7"	2000
LMLP03B3****CTAR	3.2 ± 0.1 (0.126 ± 0.004)	3.2 ± 0.1 (0.126 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	3.5 ± 0.1 (0.138 ± 0.004)	8.0 ± 0.2 (0.315 ± 0.008)	0.3 ± 0.05 (0.012 ± 0.002)	1.9 ± 0.1 (0.075 ± 0.004)	7"	2000
LMLP0404****CTAS	4.3 ± 0.1 (0.169 ± 0.004)	4.3 ± 0.1 (0.169 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.3 ± 0.1 (0.012 ± 0.004)	1.4 ± 0.1 (0.055 ± 0.004)	13"	5000
LMLP04A4****CTAS	4.3 ± 0.1 (0.169 ± 0.004)	4.3 ± 0.1 (0.169 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.3 ± 0.1 (0.012 ± 0.004)	1.6 ± 0.1 (0.063 ± 0.004)	13"	4500
LMLP04B4****CTAS	4.3 ± 0.1 (0.169 ± 0.004)	4.3 ± 0.1 (0.169 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.3 ± 0.1 (0.012 ± 0.004)	2.1 ± 0.1 (0.083 ± 0.004)	13"	3500
LMLP0505****CTAR	5.25 ± 0.1 (0.207 ± 0.004)	5.25 ± 0.1 (0.207 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.3 ± 0.1 (0.012 ± 0.004)	1.4 ± 0.1 (0.055 ± 0.004)	7"	1000
LMLP05B5****CTAR	5.25 ± 0.1 (0.207 ± 0.004)	5.25 ± 0.1 (0.207 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.3 ± 0.1 (0.012 ± 0.004)	2.3 ± 0.1 (0.091 ± 0.004)	7"	800
LMLP05D5****CTAS	5.15 ± 0.1 (0.203 ± 0.004)	5.15 ± 0.1 (0.203 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.4 ± 0.1 (0.016 ± 0.004)	4.2 ± 0.1 (0.165 ± 0.004)	13"	1500
LMLP0606****CTAR	6.3 ± 0.1 (0.248 ± 0.004)	6.3 ± 0.1 (0.248 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.4 ± 0.1 (0.016 ± 0.004)	1.4 ± 0.1 (0.055 ± 0.004)	7"	1000
LMLP06A6****CTAR	6.3 ± 0.1 (0.248 ± 0.004)	6.3 ± 0.1 (0.248 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.4 ± 0.1 (0.016 ± 0.004)	1.6 ± 0.1 (0.063 ± 0.004)	7"	1000
LMLP06B6****CTAS	6.3 ± 0.1 (0.248 ± 0.004)	6.3 ± 0.1 (0.248 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.4 ± 0.1 (0.016 ± 0.004)	2.3 ± 0.1 (0.091 ± 0.004)	13"	2500
LMLP06C6****CTAS	6.3 ± 0.1 (0.248 ± 0.004)	6.3 ± 0.1 (0.248 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.4 ± 0.1 (0.016 ± 0.004)	3.1 ± 0.1 (0.122 ± 0.004)	13"	2000
LMLP06D6****CTAS	6.3 ± 0.1 (0.248 ± 0.004)	6.3 ± 0.1 (0.248 ± 0.004)	8.0 ± 0.1 (0.315 ± 0.004)	5.5 ± 0.1 (0.217 ± 0.004)	12.0 ± 0.3 (0.472 ± 0.012)	0.4 ± 0.1 (0.016 ± 0.004)	4.7 ± 0.1 (0.185 ± 0.004)	13"	1500
LMLP0808****CTAS	8.3 ± 0.1 (0.327 ± 0.004)	8.3 ± 0.1 (0.327 ± 0.004)	12.0 ± 0.1 (0.472 ± 0.004)	7.5 ± 0.1 (0.295 ± 0.004)	16.0 ± 0.3 (0.630 ± 0.012)	0.5 ± 0.1 (0.020 ± 0.004)	4.5 ± 0.1 (0.177 ± 0.004)	13"	1000

PACKAGING SPECIFICATIONS – REEL DIMENSIONS



Code	7" Reel	13" Reel
D	180±1.50	330±1.50
P	62.0±1.50	100±1.50

OCEAN CHIPS
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