

LMax SMD Power Inductor



LMXS Series – Shielded Style Q, S

FEATURES

- Magnetically Shielded Construction
- Large Current
- Low DCR

APPLICATIONS

- LCD Televisions
- Notebooks
- PDAs
- Digital Cameras
- Handheld Communication
- DC/DC Converters, etc.

CHARACTERISTICS

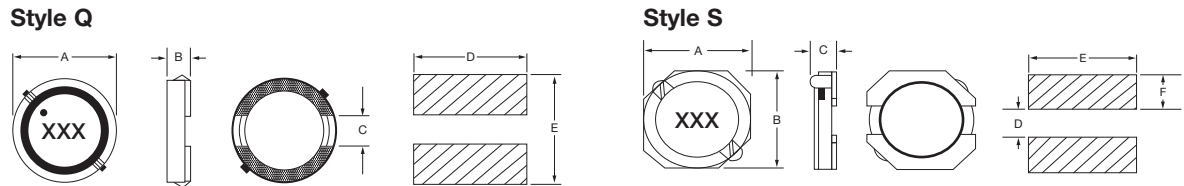
- Rated Current (IDC): The DC current that will cause an approximate ΔT of 40°C. ($T_a=25^\circ\text{C}$)
- Operating temperature range: $-40^\circ\text{C} \sim +125^\circ\text{C}$

INDUCTANCE AND RATED CURRENT RANGES

- 0707 3.3 μH ~ 47 μH 1.68 ~ 0.16A
- 07C7 2.2 μH ~ 68 μH 1.84 ~ 0.18A
- 1010 2.7 μH ~ 33 μH 3.40 ~ 0.80A
- 101B 3.9 μH ~ 33 μH 3.80 ~ 1.20A
- Electrical specifications at 25°C



DIMENSIONS



mm (inches)

Type	Style	A max	B max	C max	D	E	F
0707	Q	6.90 ± 0.40 (0.271 ± 0.157)	1.50 (0.059)	2.00 (0.079)	7.30 (0.288)	7.30 (0.288)	–
07C7	Q	7.00 ± 0.50 (0.276 ± 0.020)	2.80 (0.110)	2.00 (0.079)	7.30 (0.288)	7.30 (0.288)	–
1010	S	10.3 (0.406)	10.3 (0.406)	1.50 (0.059)	3.00 (0.119)	10.4 (0.410)	3.70 (0.146)
101B	S	10.3 (0.406)	10.3 (0.406)	2.50 (0.099)	3.0 (0.119)	10.4 (0.410)	3.70 (0.146)

HOW TO ORDER

LM	XS	0707	M	2R2	Q	T	A	S
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XS = Shielded	0707 = 7x7xh 07C7 = 7x7xC(h) (h = see catalog)	T = ±25%	2R2 = 2.20 μH 680 = 68.00 μH	Q Q S	T = Sn Plate	A = Standard	S = 13" Reel

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ELECTRICAL CHARACTERISTICS

0707

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
3R3	3.3	T	100KHz, 1.0V	0.085	2.10
4R7	4.7	T	100KHz, 1.0V	0.115	1.70
6R8	6.8	T	100KHz, 1.0V	0.144	1.45
100	10	T	100KHz, 1.0V	0.225	1.25
150	15	T	100KHz, 1.0V	0.290	1.05
220	22	T	100KHz, 1.0V	0.450	0.85
470	47	T	100KHz, 1.0V	0.850	0.55

07C7

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
2R2	2.2	T	100KHz, 1.0V	0.028	4.00
2R7	2.7	T	100KHz, 1.0V	0.030	3.60
3R3	3.3	T	100KHz, 1.0V	0.035	3.20
4R7	4.7	T	100KHz, 1.0V	0.045	2.60
6R8	6.8	T	100KHz, 1.0V	0.058	2.20
100	10	T	100KHz, 1.0V	0.075	1.80
220	22	T	100KHz, 1.0V	0.180	1.20
470	47	T	100KHz, 1.0V	0.390	0.90
680	68	T	100KHz, 1.0V	0.510	0.80

1010

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
2R7	2.7	T	100KHz, 1.0V	0.042	3.40
3R3	3.3	T	100KHz, 1.0V	0.057	3.00
4R7	4.7	T	100KHz, 1.0V	0.071	2.60
6R8	6.8	T	100KHz, 1.0V	0.106	2.10
100	10	T	100KHz, 1.0V	0.140	1.80
220	22	T	100KHz, 1.0V	0.288	1.20
470	47	T	100KHz, 1.0V	0.654	0.80

101B

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
3R9	3.9	T	100KHz, 1.0V	0.036	3.80
4R7	4.7	T	100KHz, 1.0V	0.039	3.60
6R8	6.8	T	100KHz, 1.0V	0.068	2.70
100	10	T	100KHz, 1.0V	0.082	2.60
150	15	T	100KHz, 1.0V	0.120	1.70
220	22	T	100KHz, 1.0V	0.178	1.40
330	33	T	100KHz, 1.0V	0.252	1.20