

LMax SMD Power Inductor

LMXS Series – Shielded Style M

FEATURES

- Magnetically shielded construction
- RoHS compliance

APPLICATIONS

- LCD TV
- DC to DC Converters
- Notebook PC

INDUCTANCE AND RATED CURRENT RANGES

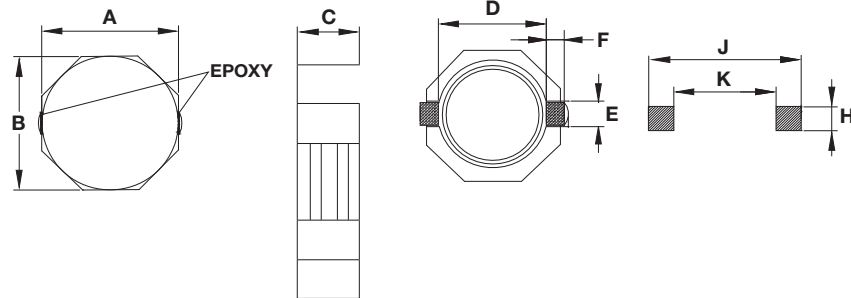
- 0808 1.0 ~ 100 μ H 6.5 ~ 0.75A
- 08D8 1.8 ~ 100 μ H 7.0 ~ 1.05A
- 08E8 1.0 ~ 100 μ H 9.0 ~ 1.30A
- Electrical specifications at 25°C



CHARACTERISTICS

- Rated DC Current: The current when the inductance becomes 35% lower than its initial value.
- Operating temperature: -40 ~ 85°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 = 3.900 μ H 390 = 39.00 μ H 391 = 390.0 μ H 392 = 3900 μ H		T = Sn Plate	A = Standard	S = 13" Reel

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ELECTRICAL CHARACTERISTICS

0808/08D8/08E8

Codes	L (μ H)	Tolerance	Test Condition		DCR (Ω) max.			I sat (A) max*		
			0808	08D8/08E8	0808	08D8	08E8	0808	08D8	0838
1R0	1.0	N	100KHz, 0.25V	100KHz, 0.1V	0.011	–	0.0095	6.5	–	9.0
1R2	1.2	N	100KHz, 0.25V	100KHz, 0.1V	–	–	0.0122	–	–	8.0
1R8	1.8	N	100KHz, 0.25V	100KHz, 0.1V	–	0.0156	–	–	7.0	–
2R0	2.0	N	100KHz, 0.25V	100KHz, 0.1V	–	–	0.014	–	–	7.0
2R5	2.5	N	100KHz, 0.25V	100KHz, 0.1V	0.0156	0.0175	–	4.5	6.5	–
3R3	3.3	N	100KHz, 0.25V	100KHz, 0.1V	0.0182	–	–	4.0	–	–
3R5	3.5	N	100KHz, 0.25V	100KHz, 0.1V	–	0.024	–	–	5.0	–
3R9	3.9	N	100KHz, 0.25V	100KHz, 0.1V	–	–	0.019	–	–	5.9
4R7	4.7	N	100KHz, 0.25V	100KHz, 0.1V	0.0247	0.029	0.022	3.4	4.6	5.6
6R0	6.0	N	100KHz, 0.25V	100KHz, 0.1V	–	0.032	–	–	4.2	–
6R8	6.8	N	100KHz, 0.25V	100KHz, 0.1V	–	–	0.025	–	–	4.4
7R3	7.3	N	100KHz, 0.25V	100KHz, 0.1V	0.039	–	–	2.80	–	–
100	10	N	100KHz, 0.25V	100KHz, 0.1V	0.047	0.048	0.036	2.50	3.00	4.0
150	15	N	100KHz, 0.25V	100KHz, 0.1V	0.069	0.067	0.053	1.90	2.75	2.9
220	22	N	100KHz, 0.25V	100KHz, 0.1V	0.099	0.105	0.075	1.60	2.30	2.6
330	33	N	100KHz, 0.25V	100KHz, 0.1V	0.156	0.157	0.125	1.30	1.75	2.2
470	47	N	100KHz, 0.25V	100KHz, 0.1V	0.159	0.189	0.150	1.15	1.52	1.8
680	68	N	100KHz, 0.25V	100KHz, 0.1V	0.286	0.290	0.240	0.92	1.30	1.5
101	100	N	100KHz, 0.25V	100KHz, 0.1V	0.430	0.410	0.360	0.75	1.05	1.3

*Saturation Current: The current when the inductance becomes 35% lower than its initial value.