

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

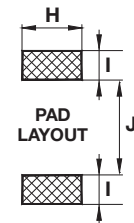
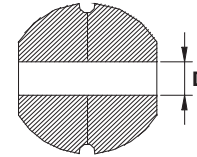
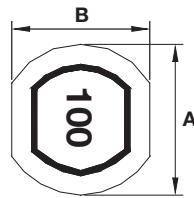
- Rated DC current: The current when the inductance becomes 25% lower than its initial value or the actual current when the temperature of coil increases to $\Delta 40^{\circ}\text{C}$. The smaller one is defined as Rated DC Current. ($T_a=25^{\circ}\text{C}$)
- Operating temperature range: $-40 \sim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

INDUCTANCE AND RATED CURRENT RANGES

- 0606 10 ~ 68 μH 1.0 ~ 0.42A
- 0807 4.7 ~ 270 μH 3.15 ~ 0.33A
- 1009 10 ~ 470 μH 2.06 ~ 0.33A
- 1312 10 ~ 820 μH 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 = 3.900 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 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