

# LMax SMD Power Inductor

## LMXS Series – Shielded Style J

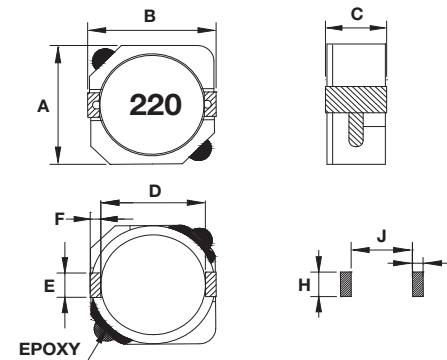
### FEATURES

- 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.

### DIMENSIONS



### 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 $\mu\text{H}$  2.60 ~ 0.40A
- 1010 10 ~ 150 $\mu\text{H}$  2.70 ~ 0.70A
- 101D 1.3 ~ 330 $\mu\text{H}$  10.0 ~ 0.70A
- 101E 1.5 ~ 1000 $\mu\text{H}$  10.5 ~ 0.35A
- Electrical specifications at  $25^{\circ}\text{C}$



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)

mm (inches)

### HOW TO ORDER

<b>LM</b>	<b>XS</b>	<b>0606</b>	<b>N</b>	<b>R04</b>	<b>J</b>	<b>T</b>	<b>A</b>	<b>S</b>
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 $\mu\text{H}$ R39 = 0.390 $\mu\text{H}$ 3R9 = 3.900 $\mu\text{H}$ 390 = 39.00 $\mu\text{H}$ 391 = 390.0 $\mu\text{H}$ 392 = 3900 $\mu\text{H}$		T = Sn Plate	A = Standard	S = 13" Reel

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### 0606/1010/101D/101E

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.				IDC (A) max.			
				0606	1010	101D	101E	0606	1010	101D	101E
1R3	1.3	N	100KHz, 0.1V	-	-	0.008	-	-	-	10.0	-
1R5	1.5	N	100KHz, 0.1V	-	-	0.008	0.006	-	-	10.0	10.5
2R2	2.2	N	100KHz, 0.1V	-	-	0.011	0.007	-	-	8.00	9.25
2R5	2.5	N	100KHz, 0.1V	0.0176	-	0.012	-	2.60	-	7.50	-
3R3	3.3	N	100KHz, 0.1V	0.0203	-	0.013	0.010	2.30	-	6.50	7.80
3R8	3.8	N	100KHz, 0.1V	-	-	0.017	-	-	-	6.00	-
4R0	4.0	N	100KHz, 0.1V	0.027	-	-	-	2.10	-	-	-
4R7	4.7	N	100KHz, 0.1V	-	-	0.021	0.012	-	-	5.70	6.40
5R0	5.0	N	100KHz, 0.1V	0.0311	-	-	-	1.85	-	-	-
5R2	5.2	N	100KHz, 0.1V	-	-	0.022	-	-	-	5.50	-
5R6	5.6	N	100KHz, 0.1V	-	-	0.025	-	-	-	5.20	-
6R0	6.0	N	100KHz, 0.1V	0.0419	-	-	-	1.70	-	-	-
6R8	6.8	N	100KHz, 0.1V	-	-	0.026	0.018	-	-	4.90	5.40
7R0	7.0	N	100KHz, 0.1V	-	-	0.027	-	-	-	4.80	-
8R0	8.0	N	100KHz, 0.1V	0.0499	-	-	-	1.50	-	-	-
8R2	8.2	N	100KHz, 0.1V	-	-	-	0.020	-	-	-	4.85
100	10	N	100KHz, 0.1V	0.054	0.058	0.035	0.026	1.30	2.70	4.40	3.45
120	12	N	100KHz, 0.1V	0.0716	0.072	-	0.033	1.20	2.25	-	3.40
150	15	N	100KHz, 0.1V	0.0824	0.086	0.050	0.041	1.10	2.22	3.60	2.83
180	18	N	100KHz, 0.1V	0.1015	0.116	-	0.046	1.05	1.90	-	2.62
220	22	N	100KHz, 0.1V	0.119	0.145	0.073	61	0.95	1.78	2.90	2.44
270	27	N	100KHz, 0.1V	0.146	0.176	0.083	0.069	0.85	1.63	2.80	2.24
330	33	N	100KHz, 0.1V	0.1825	0.213	0.093	0.084	0.76	1.46	2.30	1.88
390	39	N	100KHz, 0.1V	0.2095	0.270	-	0.106	0.68	1.32	-	1.70
470	47	N	100KHz, 0.1V	0.2295	0.299	0.128	0.130	0.60	1.18	2.10	1.56
560	56	N	100KHz, 0.1V	0.305	0.335	-	0.149	0.55	1.10	-	1.39
680	68	N	100KHz, 0.1V	0.351	0.451	0.213	0.201	0.48	1.04	1.50	1.36
820	82	N	100KHz, 0.1V	0.4185	0.513	-	0.227	0.45	0.94	-	1.20
101	100	N	100KHz, 0.1V	0.520	0.700	0.304	0.253	0.40	0.84	1.35	1.09
121	120	N	100KHz, 0.1V	-	0.765	-	0.303	-	0.76	-	1.00
151	150	N	100KHz, 0.1V	-	0.876	0.506	0.370	-	0.70	1.15	0.91
181	180	N	100KHz, 0.1V	-	-	0.631	0.419	-	-	1.03	0.84
221	220	N	100KHz, 0.1V	-	-	0.756	0.500	-	-	0.92	0.75
271	270	N	100KHz, 0.1V	-	-	-	0.672	-	-	-	0.68
331	330	N	100KHz, 0.1V	-	-	1.09	0.812	-	-	0.70	0.60
391	390	N	100KHz, 0.1V	-	-	-	0.953	-	-	-	0.57
471	470	N	100KHz, 0.1V	-	-	-	1.289	-	-	-	0.50
561	560	N	100KHz, 0.1V	-	-	-	1.430	-	-	-	0.47
681	680	N	100KHz, 0.1V	-	-	-	1.599	-	-	-	0.43
821	820	N	100KHz, 0.1V	-	-	-	1.768	-	-	-	0.39
102	1000	N	100KHz, 0.1V	-	-	-	1.989	-	-	-	0.35