

# LMax SMD Power Inductor



## LMXS Series – Shielded Style L

### FEATURES

- Magnetically Shielded Construction
- Large Current
- Low DCR

### APPLICATIONS

- LCD Televisions
- Notebooks
- Camcorders
- Digital Cameras
- DC/DC Converters for Portable Devices

### CHARACTERISTICS

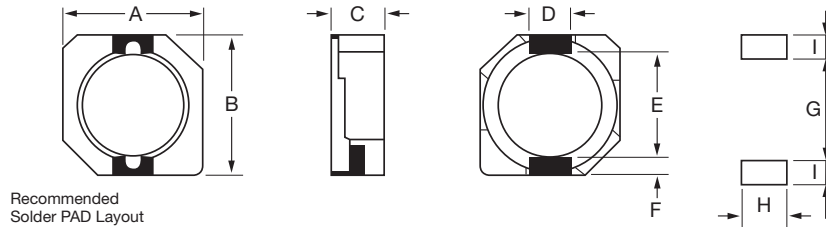
- Rated Current (IDC): The DC current that will cause an approximate  $\Delta T$  of 40°C. (Ta=25°C)
- Operating temperature range: -40°C ~ +125°C

### INDUCTANCE AND RATED CURRENT RANGES

- 1010 0.8uH ~ 47.0uH 11.2 ~ 1.43A
- 101D 1.5uH ~ 330uH 10.0 ~ 0.70A
- Electrical specifications at 25°C



### DIMENSIONS



Recommended Solder PAD Layout

mm (inches)

Type	A max	B max	C max	D	E	F	G	H	I
1010	10.3 (0.398)	10.5 (0.414)	3.10 (0.122)	3.00 ± 0.10 (0.119 ± 0.004)	7.70 ± 0.30 (0.303 ± 0.012)	1.20 ± 0.150 (0.048 ± 0.006)	7.30 (0.288)	3.20 (0.126)	1.60 (0.630)
101D	10.3 (0.398)	10.5 (0.414)	3.80 ± 0.20 (0.150 ± 0.008)	3.00 ± 0.1 (0.119 ± 0.004)	7.70 ± 0.30 (0.303 ± 0.012)	1.2 ± 0.15 (0.048 ± 0.006)	7.30 (0.288)	3.20 (0.126)	1.60 (0.630)

### HOW TO ORDER

<b>LM</b>	<b>XS</b>	<b>1010</b>	<b>N</b>	<b>2R2</b>	<b>L</b>	<b>T</b>	<b>A</b>	<b>S</b>
<b>Family</b>	<b>Series</b>	<b>Size</b>	<b>Tolerance</b>	<b>Inductance</b>	<b>Style</b>	<b>Termination</b>	<b>Special</b>	<b>Packaging</b>
LM = Power Inductor	XS = Shielded	1010 = 10x10xh 101D = 10x10xD(h) (h = see catalog)	N = ±30%	0R8 = 0.8µH 470 = 47.00µH 331 = 330.0µH		T = Sn Plate	A = Standard	S = 13" Reel

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### ELECTRICAL CHARACTERISTICS

#### 1010

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
0R8	0.8	N	100KHz, 1.0V	0.0057	11.2
1R5	1.5	N	100KHz, 1.0V	0.011	8.00
2R2	2.2	N	100KHz, 1.0V	0.0159	6.70
3R3	3.3	N	100KHz, 1.0V	0.021	5.56
4R7	4.7	N	100KHz, 1.0V	0.030	4.55
6R8	6.8	N	100KHz, 1.0V	0.035	3.84
8R0	8.0	N	100KHz, 1.0V	0.050	3.54
100	10	N	100KHz, 1.0V	0.059	3.18
150	15	N	100KHz, 1.0V	0.091	2.60
220	22	N	100KHz, 1.0V	0.143	2.16
330	33	N	100KHz, 1.0V	0.202	1.74
470	47	N	100KHz, 1.0V	0.299	1.43

#### 101D

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
1R5	1.5	N	100KHz, 1.0V	0.0081	10.0
2R5	2.5	N	100KHz, 1.0V	0.010	7.50
3R8	3.8	N	100KHz, 1.0V	0.013	6.00
4R7	4.7	N	100KHz, 1.0V	0.022	5.50
5R2	5.2	N	100KHz, 1.0V	0.022	5.50
7R0	7.0	N	100KHz, 1.0V	0.027	4.80
100	10	N	100KHz, 1.0V	0.035	4.40
150	15	N	100KHz, 1.0V	0.050	3.60
220	22	N	100KHz, 1.0V	0.073	2.90
330	33	N	100KHz, 1.0V	0.093	2.30
470	47	N	100KHz, 1.0V	0.128	2.10
680	68	N	100KHz, 1.0V	0.213	1.50
101	100	N	100KHz, 1.0V	0.304	1.35
151	150	N	100KHz, 1.0V	0.506	1.15
221	220	N	100KHz, 1.0V	0.756	0.92
331	330	N	100KHz, 1.0V	1.090	0.70