

# LMax SMD Power Inductor

## LMXN Series – Non-Shielded Style B



### FEATURES

- Miniature surface mount design
- High power, High saturation inductors
- Very low resistance
- Maximum power density
- Ideal inductors for DC–DC converters
- Available on tape and reel for auto surface mounting

### APPLICATIONS

- Notebook Computers
- Handheld Communications
- LCD Televisions
- Power Supply For VTRs
- DC/DC Converters, etc.

### CHARACTERISTICS

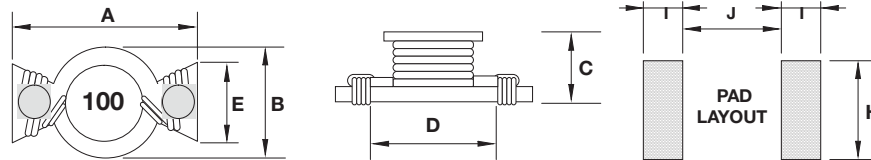
- Saturation Rated Current: The current when the inductance becomes 30% lower than its initial value. (Ta=25°C)
- Operating temperature range: -40 ~ 85°C

### INDUCTANCE AND RATED CURRENT RANGES

- 0705 0.47µH ~ 22.0µH 7.7 ~ 0.70A
- 0906 0.56µH ~ 100µH 7.7 ~ 0.53A
- 1310 0.47µH ~ 100µH 11.4 ~ 0.95A
- 1913 0.47µH ~ 100µH 25.1 ~ 1.80A
- 2216 0.78µH ~ 470µH 30.0 ~ 0.8A
- Electrical specifications at 25°C



### DIMENSIONS



mm (inches)

Type	A max.	B max.	C max.	D	E	H	I	J
0705	7.50 (0.295)	5.20 (0.205)	3.20 (0.126)	4.60 (0.181)	2.50 (0.098)	4.00 (0.157)	2.00 (0.079)	4.00 (0.157)
0906	8.89 (0.350)	6.40 (0.252)	5.00 (0.197)	5.84 (0.230)	2.60 (0.103)	4.06 (0.160)	2.00 (0.079)	5.08 (0.200)
1310	13.20 (0.560)	9.90 (0.390)	6.35 (0.250)	9.50 (0.374)	4.50 (0.177)	6.50 (0.256)	2.30 (0.091)	9.00 (0.344)
1913	19.40 (0.764)	13.30 (0.524)	6.80 (0.268)	12.7 (0.500)	6.60 (0.260)	8.00 (0.315)	3.80 (0.150)	11.7 (0.460)
2216	22.35 (0.880)	16.26 (0.604)	8.00 (0.315)	16.0 (0.630)	8.00 (0.315)	8.64 (0.340)	4.30 (0.169)	14.35 (0.565)

### HOW TO ORDER

<b>LM</b>	<b>XN</b>	<b>0705</b>	<b>M</b>	<b>R04</b>	<b>B</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	XN = Non-Shielded	0705 = 7x5xh (h = see catalog)	M = ±20% P = +40% -20%	R04 = 0.039µH R39 = 0.390µH 3R9 = 3.900µH 390 = 39.00µH 391 = 390.0µH 392 = 3900µH		T = Sn Plate	A = Standard	S = 13" Reel

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### ELECTRICAL CHARACTERISTICS

#### 0705/0906/1310/1913/2216

Codes	L ( $\mu$ H)	Tolerance			Test Condition	DCR ( $\Omega$ ) max.					I sat (A) max*				
		705	0906 2216	1310 1913		0705	0906	1310	1913	2216	0705	0906	1310	1913	2216
R47	0.47	P	-	P	100KHz, 0.1V	0.025	-	0.005	0.003	-	7.7	-	11.4	25.1	-
R56	0.56	-	M	-	100KHz, 0.1V	-	0.010	-	-	-	-	7.7	-	-	-
R78	0.78	-	M	-	100KHz, 0.1V	-	-	-	-	0.003	-	-	-	-	30
1R0	1.0	M	-	P	100KHz, 0.1V	0.050	-	0.006	0.004	-	2.9	-	9.9	15.3	-
1R5	1.5	M	M	P	100KHz, 0.1V	0.050	-	0.008	0.006	0.004	2.6	-	7.9	12	25
2R2	2.2	M	M	M	100KHz, 0.1V	0.070	0.035	0.011	0.008	0.006	2.3	3.5	6.1	10.2	20
3R3	3.3	M	M	M	100KHz, 0.1V	0.080	0.040	0.014	0.009	0.009	2	3	5.1	9.3	17
3R9	3.9	-	M	-	100KHz, 0.1V	-	-	-	-	0.010	-	-	-	-	15
4R7	4.7	M	M	M	100KHz, 0.1V	0.090	0.054	0.018	0.012	0.014	1.5	2.6	4.2	7.7	13
6R0	6.0	-	M	-	100KHz, 0.1V	-	-	-	-	0.017	-	-	-	-	12
6R8	6.8	M	M	M	100KHz, 0.1V	0.130	0.08	0.027	0.019	-	1.2	2.2	3.6	6.2	-
7R8	7.8	-	M	-	100KHz, 0.1V	-	-	-	-	0.018	-	-	-	-	11
100	10	M	M	M	100KHz, 0.1V	0.160	0.111	0.038	0.027	0.026	1.1	1.9	3.3	5.2	10
150	15	M	M	M	100KHz, 0.1V	0.230	0.170	0.045	0.032	0.032	0.9	1.5	2.4	4.3	8
220	22	M	M	M	100KHz, 0.1V	0.370	0.250	0.070	0.050	0.043	0.7	1.2	2	3.7	7
330	33	-	M	M	100KHz, 0.1V	-	0.350	0.100	0.069	0.066	-	0.99	1.7	3	6
470	47	-	M	M	100KHz, 0.1V	-	0.470	0.150	0.109	0.096	-	0.87	1.4	2.4	5
680	68	-	M	M	100KHz, 0.1V	-	0.730	0.220	0.156	0.115	-	0.68	1.2	2	4
101	100	-	M	M	100KHz, 0.1V	-	1.110	0.280	0.206	0.165	-	0.53	0.95	1.8	3
221	220	-	M	-	100KHz, 0.1V	-	-	-	-	0.396	-	-	-	-	2.4
331	330	-	M	-	100KHz, 0.1V	-	-	-	-	0.588	-	-	-	-	1
471	470	-	M	-	100KHz, 0.1V	-	-	-	-	0.950	-	-	-	-	0.8

\*Saturation Current: The current when the inductance becomes 30% lower than its initial value. (Ta=25°C)