

LMax SMD Power Inductor

LMXS Series – Shielded Style H

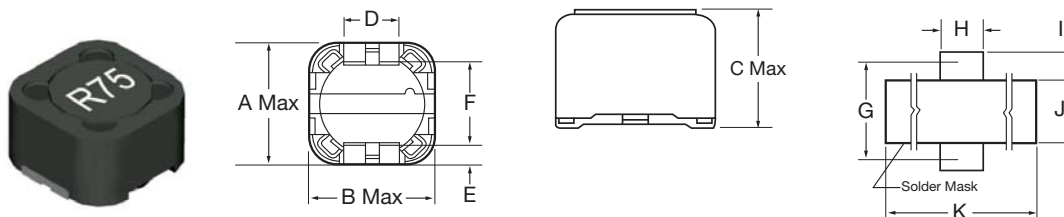
FEATURES

- Magnetically Shielded Construction
- Large Current
- Low DCR

APPLICATIONS

- LCD Televisions
- Notebooks
- Handheld Communication
- DC/DC Converters, etc.

DIMENSIONS



CHARACTERISTICS

- Rated Current (IDC): The DC Current that will cause a drop in inductance value of approximately 20%.
- Operating temperature range: -40°C ~ +125°C

INDUCTANCE AND RATED CURRENT RANGES

- 1212 3.9μH ~ 330μH 6.5 ~ 0.50A
- 121G 2.4μH ~ 47μH 8.0 ~ 2.5A
- 121J 10μH ~ 1000μH 4.0 ~ 0.40A
- Electrical specifications at 25°C



mm (inches)

Type	A max.	B max.	C max.	D	E	F	G	H	I	J	K
1212	12.5 (0.492)	12.5 (0.492)	4.50 (0.177)	5.00 (0.197)	2.00 (0.079)	7.60 (0.299)	10.00 (0.393)	6.00 (0.236)	3.00 (0.118)	7.00 (0.276)	18.0 (0.709)
121G	12.5 (0.492)	12.5 (0.492)	6.20 (0.244)	5.00 (0.197)	2.00 (0.079)	7.60 (0.299)	10.00 (0.394)	6.00 (0.236)	3.00 (0.118)	7.00 (0.276)	18.0 (0.709)
121J	12.5 (0.492)	12.5 (0.492)	8.00 (0.315)	5.00 (0.197)	2.00 (0.079)	7.60 (0.299)	10.00 (0.394)	6.00 (0.236)	3.00 (0.118)	7.00 (0.276)	18.0 (0.709)

HOW TO ORDER

LM	XS	1212	M	R04	H	T	A	S
Family	Series	Size	Tolerance	Inductance	Style	Termination	Special	Packaging
LM = Power Inductor	XS = Shielded	1212 = 12x12xh 121G = 12x12xG(h) (h = see catalog)	M = ±20%	3R9 = 3.900μH 390 = 39.00μH 391 = 390μH 102 = 1000μH		T = Sn Plate	A = Standard	S = 13" Reel

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ELECTRICAL CHARACTERISTICS

1212

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
3R9	3.9	M	100KHz, 1.0V	0.015	6.50
4R7	4.7	M	100KHz, 1.0V	0.018	5.70
6R8	6.8	M	100KHz, 1.0V	0.023	4.90
100	10	M	100KHz, 1.0V	0.028	4.50
120	12	M	100KHz, 1.0V	0.038	4.00
150	15	M	100KHz, 1.0V	0.050	3.20
180	18	M	100KHz, 1.0V	0.057	3.10
220	22	M	100KHz, 1.0V	0.066	2.90
270	27	M	100KHz, 1.0V	0.080	2.80
330	33	M	100KHz, 1.0V	0.097	2.70
390	39	M	100KHz, 1.0V	0.132	2.10
470	47	M	100KHz, 1.0V	0.150	1.90
560	56	M	100KHz, 1.0V	0.190	1.80
680	68	M	100KHz, 1.0V	0.220	1.50
820	82	M	100KHz, 1.0V	0.260	1.30
101	100	M	100KHz, 1.0V	0.308	1.20
121	120	M	100KHz, 1.0V	0.380	1.10
151	150	M	100KHz, 1.0V	0.530	0.95
181	180	M	100KHz, 1.0V	0.620	0.85
221	220	M	100KHz, 1.0V	0.700	0.80
271	270	M	100KHz, 1.0V	0.876	0.60
331	330	M	100KHz, 1.0V	0.990	0.50

121G

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
100	10	M	100KHz, 1.0V	0.025	4.00
120	12	M	100KHz, 1.0V	0.027	3.50
150	15	M	100KHz, 1.0V	0.030	3.30
180	18	M	100KHz, 1.0V	0.038	3.00
220	22	M	100KHz, 1.0V	0.045	2.80
270	27	M	100KHz, 1.0V	0.055	2.30
330	33	M	100KHz, 1.0V	0.063	2.10
390	39	M	100KHz, 1.0V	0.075	2.00
470	47	M	100KHz, 1.0V	0.085	1.80
560	56	M	100KHz, 1.0V	0.110	1.70
680	68	M	100KHz, 1.0V	0.120	1.50
820	82	M	100KHz, 1.0V	0.140	1.040
101	100	M	100KHz, 1.0V	0.165	1.30
121	120	M	100KHz, 1.0V	0.195	1.10
151	150	M	100KHz, 1.0V	0.250	1.00
181	180	M	100KHz, 1.0V	0.290	0.90
221	220	M	100KHz, 1.0V	0.400	0.80
271	270	M	100KHz, 1.0V	0.460	0.75
331	330	M	100KHz, 1.0V	0.510	0.68
391	390	M	100KHz, 1.0V	0.690	0.65
471	470	M	100KHz, 1.0V	0.770	0.58
561	560	M	100KHz, 1.0V	0.880	0.54
681	680	M	100KHz, 1.0V	1.200	0.048
821	820	M	100KHz, 1.0V	1.340	0.043
102	1000	M	100KHz, 1.0V	1.530	0.040

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121J

Codes	L (μH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
2R4	2.4	M	100KHz, 1.0V	0.012	8.00
4R7	4.7	M	100KHz, 1.0V	0.016	6.80
7R6	7.6	M	100KHz, 1.0V	0.020	5.90
100	10	M	100KHz, 1.0V	0.022	5.40
120	12	M	100KHz, 1.0V	0.025	4.90
150	15	M	100KHz, 1.0V	0.027	4.50
180	18	M	100KHz, 1.0V	0.039	3.90
220	22	M	100KHz, 1.0V	0.043	3.60
270	27	M	100KHz, 1.0V	0.046	3.40
330	33	M	100KHz, 1.0V	0.065	3.00
390	39	M	100KHz, 1.0V	0.073	2.75
470	47	M	100KHz, 1.0V	0.100	2.50

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