

# SMD Power Inductor

## Fixed Inductor for Surface Mounting

## SPL12080-00Y/MA Series

### Construction

- Mn Ferrite core
- Shielded construction



### Features

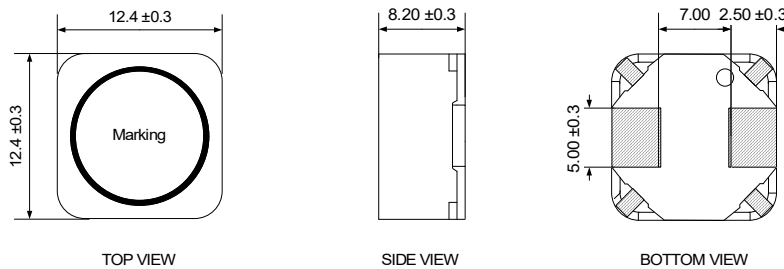
- Qualified to AEC-Q200
- Operating temperature -50 ~ +155°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



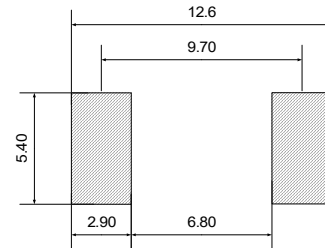
### Applications

- Automotive / Noise filtering and filter chokes
- DC/DC converters
- Portable gaming devices / personal navigation systems
- multimedia devices
- Portable and devices

### Dimensions (Unit:mm)



### Recommended Land Pattern (Unit:mm)



### Electrical Characteristics

Ordering code	Inductance(uH)	DCR(mΩ,±30%)	Isat*1(A,TYP)	Isat*2(A,MAX)	Irms*2(A,MAX)	Marking
SPL12080-1R0N-00MA	1.00±30%	12.0	39.0	31.0	10.3	1R0
SPL12080-1R0N-00YA	1.00±30%	6.50	40.0	33.0	13.0	1R0
SPL12080-1R5N-00MA	1.50±30%	13.5	31.0	26.0	9.30	1R5
SPL12080-1R5N-00YA	1.50±30%	7.50	32.0	27.5	11.5	1R5
SPL12080-2R2N-00MA	2.20±30%	15.5	25.0	19.0	9.00	2R2

#### \*Test Equipment

\*Inductance : MICROTTEST 6632 (100kHz, 1.0V)

\*DCR Meter : ABM3245 (20mΩ~2MΩ)

\*Bias Current : MICROTTEST 6632 + 6240

\*Specifications subject to change without notice. Please check our website for latest information.

#### \*Notes

\*1.Isat : DC current (A) that will cause L0 to drop approximately 30%

\*2.Irms : DC current (A) that will cause an approximate ΔT of 40°C

Revised 05/03/26

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SPL12080-2R2N-00YA	2.20±30%	8.50	26.0	20.0	10.0	2R2
SPL12080-3R3N-00MA	3.30±30%	18.6	19.0	16.5	7.80	3R3
SPL12080-3R3N-00YA	3.30±30%	10.0	20.0	17.5	8.70	3R3
SPL12080-4R7M-00MA	4.70±20%	20.1	16.0	15.5	7.00	4R7
SPL12080-4R7M-00YA	4.70±20%	12.0	17.5	16.2	7.40	4R7
SPL12080-5R6M-00MA	5.60±20%	21.0	15.0	14.0	6.40	5R6
SPL12080-5R6M-00YA	5.60±20%	14.0	15.8	14.9	6.70	5R6
SPL12080-6R8M-00MA	6.80±20%	23.5	14.0	13.0	5.50	6R8
SPL12080-6R8M-00YA	6.80±20%	15.0	15.0	13.7	6.30	6R8
SPL12080-8R2M-00MA	8.20±20%	25.5	13.0	12.0	5.40	8R2
SPL12080-8R2M-00YA	8.20±20%	17.0	13.8	12.9	6.00	8R2
SPL12080-100M-00MA	10.0±20%	27.5	12.5	11.0	5.30	100
SPL12080-100M-00YA	10.0±20%	18.5	13.0	11.8	5.80	100
SPL12080-150M-00MA	15.0±20%	34.0	10.5	9.30	4.50	150
SPL12080-150M-00YA	15.0±20%	25.5	10.9	9.80	5.00	150
SPL12080-180M-00MA	18.0±20%	35.0	9.00	8.70	4.10	180
SPL12080-220M-00MA	22.0±20%	38.5	8.50	7.60	3.40	220
SPL12080-330M-00MA	33.0±20%	58.0	7.30	6.70	3.30	330
SPL12080-470M-00MA	47.0±20%	84.0	6.00	5.60	2.70	470
SPL12080-560M-00MA	56.0±20%	95.0	5.50	5.20	2.40	560
SPL12080-680M-00MA	68.0±20%	103.0	5.20	4.80	2.20	680
SPL12080-820M-00MA	82.0±20%	118.0	4.50	4.30	2.10	820
SPL12080-101M-00MA	100.0±20%	140.0	4.20	3.90	1.90	101
SPL12080-151M-00MA	150.0±20%	235.0	3.00	2.75	1.80	151
SPL12080-181M-00MA	180.0±20%	260.0	2.70	2.45	1.70	181

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SPL12080-221M-00MA	220.0±20%	295.0	2.50	2.25	1.50	221
SPL12080-331M-00MA	330.0±20%	405.0	2.20	1.95	1.30	331
SPL12080-471M-00MA	470.0±20%	545.0	2.00	1.80	1.10	471
SPL12080-561M-00MA	560.0±20%	680.0	1.65	1.45	1.00	561
SPL12080-681M-00MA	680.0±20%	960.0	1.45	1.30	0.90	681
SPL12080-821M-00MA	820.0±20%	1.15Ω	1.20	1.05	0.80	821
SPL12080-102M-00MA	1.00mH±20%	1.52Ω	1.10	0.95	0.70	102

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