

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPL12080-00Z/NA Series

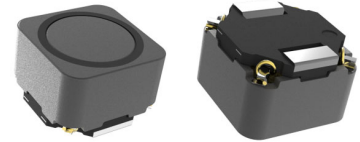
Construction

- Ni Ferrite core
- Shielded construction



Features

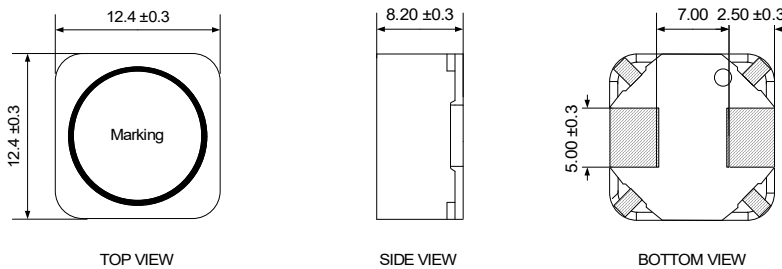
- Qualified to AEC-Q200
- Operating temperature -50 ~ +155°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



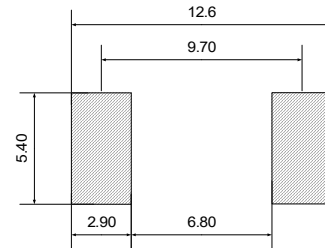
Applications

- 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*1(A, MAX)	Irms*2(A, MAX)	Marking
SPL12080-1R0N-00NA	1.00±30%	12.0	25.5	22.5	10.3	1R0
SPL12080-1R0N-00ZA	1.00±30%	7.00	27.0	24.0	12.0	1R0
SPL12080-1R8N-00NA	1.80±30%	14.0	21.0	19.0	9.00	1R8
SPL12080-1R8N-00ZA	1.80±30%	8.00	22.0	20.0	11.5	1R8
SPL12080-2R2N-00NA	2.20±30%	15.5	18.5	16.5	8.50	2R2

※Test Equipment

*Inductance : MICROTEST 6632 (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : MICROTEST 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-00ZA	2.20±30%	9.00	19.5	17.0	10.0	2R2
SPL12080-3R3N-00ZA	3.30±30%	10.5	18.0	15.5	7.80	3R3
SPL12080-3R6N-00NA	3.60±30%	17.5	17.5	15.0	8.00	3R6
SPL12080-4R7M-00NA	4.70±20%	19.5	14.5	13.0	6.70	4R7
SPL12080-4R7M-00ZA	4.70±20%	12.0	15.0	13.5	6.90	4R7
SPL12080-5R6M-00NA	5.60±20%	21.0	12.5	11.0	6.00	5R6
SPL12080-5R6M-00ZA	5.60±20%	14.0	13.0	11.8	6.20	5R6
SPL12080-6R8M-00NA	6.80±20%	23.0	11.5	10.0	5.50	6R8
SPL12080-6R8M-00ZA	6.80±20%	15.5	12.0	11.0	5.90	6R8
SPL12080-8R2M-00NA	8.20±20%	25.5	10.4	9.00	5.40	8R2
SPL12080-8R2M-00ZA	8.20±20%	17.0	11.0	10.0	5.60	8R2
SPL12080-100M-00NA	10.0±20%	28.0	10.0	8.50	5.20	100
SPL12080-100M-00ZA	10.0±20%	19.0	10.5	9.00	5.40	100
SPL12080-150M-00NA	15.0±20%	32.0	7.50	7.30	4.30	150
SPL12080-150M-00ZA	15.0±20%	27.0	8.00	7.80	4.60	150
SPL12080-180M-00NA	18.0±20%	35.0	7.50	7.00	3.85	180
SPL12080-220M-00NA	22.0±20%	40.0	6.50	6.00	3.20	220
SPL12080-330M-00NA	33.0±20%	55.0	5.50	5.00	3.00	330
SPL12080-470M-00NA	47.0±20%	83.0	4.80	4.20	2.40	470
SPL12080-560M-00NA	56.0±20%	90.0	4.30	3.90	2.20	560
SPL12080-680M-00NA	68.0±20%	100.0	4.00	3.50	2.00	680
SPL12080-820M-00NA	82.0±20%	114.0	3.40	3.00	1.90	820
SPL12080-101M-00NA	100.0±20%	139.0	3.00	2.80	1.85	101
SPL12080-151M-00NA	150.0±20%	225.0	2.40	2.30	1.75	151
SPL12080-181M-00NA	180.0±20%	248.0	2.20	2.00	1.65	181

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SPL12080-221M-00NA	220.0±20%	280.0	2.00	1.90	1.50	221
SPL12080-331M-00NA	330.0±20%	390.0	1.70	1.60	1.30	331
SPL12080-471M-00NA	470.0±20%	530.0	1.45	1.30	1.10	471
SPL12080-561M-00NA	560.0±20%	670.0	1.30	1.20	1.00	561
SPL12080-681M-00NA	680.0±20%	935.0	1.20	1.10	0.90	681
SPL12080-821M-00NA	820.0±20%	1.14Ω	1.10	1.00	0.70	821
SPL12080-102M-00NA	1.00mH±20%	1.46Ω	1.00	0.90	0.60	102

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