

# SMD Power Inductor

## Fixed Inductor for Surface Mounting

## SPL10055-00Z/NA Series

### Construction

- Ni Ferrite core
- Shielded construction



### Features

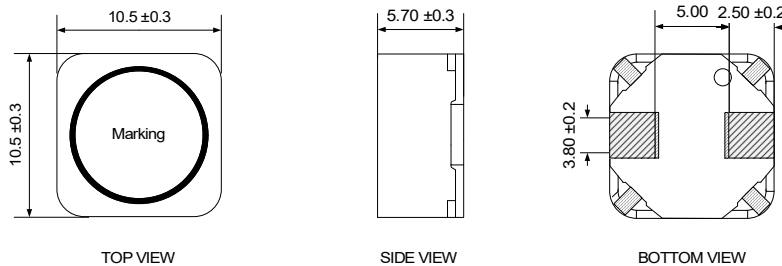
- Qualified to AEC-Q200
- Operating temperature -50 ~ +155°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



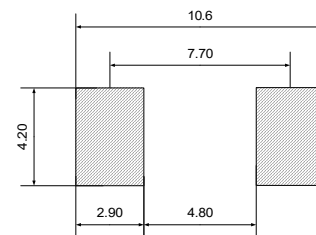
### Applications

- 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
SPL10055-1R2N-00NA	1.20±30%	13.0	14.0	13.0	9.00	1R2
SPL10055-1R8N-00NA	1.80±30%	14.5	12.0	11.0	7.00	1R8
SPL10055-2R2N-00NA	2.20±30%	16.5	11.0	9.50	6.80	2R2
SPL10055-3R3N-00NA	3.30±30%	18.5	8.80	7.70	6.00	3R3
SPL10055-3R3N-00ZA	3.30±30%	10.4	9.30	8.00	6.30	3R3

#### ※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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SPL10055-3R6N-00ZA	3.60±30%	13.5	8.00	7.00	5.90	3R6
SPL10055-4R7M-00NA	4.70±20%	20.5	7.20	5.90	5.20	4R7
SPL10055-4R7M-00ZA	4.70±20%	15.0	7.50	6.30	5.50	4R7
SPL10055-5R6M-00NA	5.60±20%	22.5	6.70	5.50	4.90	5R6
SPL10055-5R6M-00ZA	5.60±20%	16.5	6.90	5.80	5.10	5R6
SPL10055-6R8M-00NA	6.80±20%	24.5	6.50	5.30	4.70	6R8
SPL10055-7R5M-00ZA	7.50±20%	20.0	6.30	5.20	4.60	7R5
SPL10055-8R2M-00NA	8.20±20%	26.5	5.40	4.50	4.00	8R2
SPL10055-8R2M-00ZA	8.20±20%	22.0	5.60	4.70	4.30	8R2
SPL10055-100M-00NA	10.0±20%	37.0	4.90	4.20	4.00	100
SPL10055-100M-00ZA	10.0±20%	27.5	5.00	4.40	4.10	100
SPL10055-120M-00NA	12.0±20%	39.5	4.85	3.90	3.70	120
SPL10055-120M-00ZA	12.0±20%	30.0	4.95	4.00	3.80	120
SPL10055-150M-00NA	15.0±20%	45.0	4.10	3.40	3.40	150
SPL10055-150M-00ZA	15.0±20%	39.0	4.20	3.50	3.50	150
SPL10055-180M-00NA	18.0±20%	46.0	3.80	3.20	3.35	180
SPL10055-220M-00NA	22.0±20%	52.0	3.60	3.00	3.15	220
SPL10055-270M-00NA	27.0±20%	65.0	3.40	2.80	3.00	270
SPL10055-330M-00NA	33.0±20%	78.0	3.00	2.60	2.80	330
SPL10055-470M-00NA	47.0±20%	108.0	2.40	2.10	2.60	470
SPL10055-560M-00NA	56.0±20%	126.0	2.10	1.70	2.40	560
SPL10055-680M-00NA	68.0±20%	160.0	2.00	1.60	2.20	680
SPL10055-820M-00NA	82.0±20%	170.0	1.80	1.50	2.00	820
SPL10055-101M-00NA	100.0±20%	215.0	1.50	1.20	1.75	101
SPL10055-121M-00NA	120.0±20%	305.0	1.40	1.15	1.50	121

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SPL10055-151M-00NA	150.0 $\pm$ 20%	350.0	1.30	1.10	1.35	151
SPL10055-181M-00NA	180.0 $\pm$ 20%	390.0	1.20	1.00	1.15	181
SPL10055-221M-00NA	220.0 $\pm$ 20%	490.0	1.10	0.95	1.05	221
SPL10055-331M-00NA	330.0 $\pm$ 20%	660.0	0.85	0.70	1.00	331
SPL10055-471M-00NA	470.0 $\pm$ 20%	1.16 $\Omega$	0.75	0.65	0.90	471
SPL10055-561M-00NA	560.0 $\pm$ 20%	1.23 $\Omega$	0.70	0.63	0.80	561
SPL10055-681M-00NA	680.0 $\pm$ 20%	1.68 $\Omega$	0.65	0.60	0.75	681
SPL10055-821M-00NA	820.0 $\pm$ 20%	1.87 $\Omega$	0.60	0.55	0.70	821
SPL10055-102M-00NA	1.00mH $\pm$ 20%	2.12 $\Omega$	0.50	0.45	0.67	102

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