

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPL7045-00Z/NA Series

Construction

- Ni Ferrite core
- Shielded construction



Features

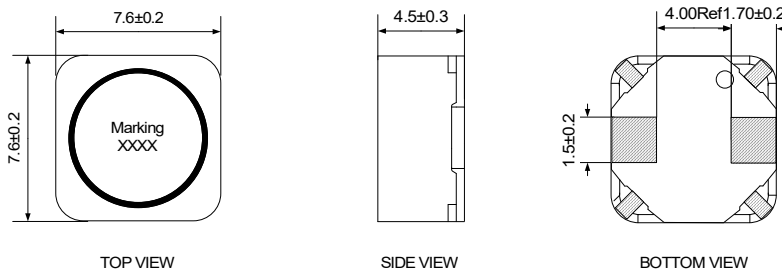
- Qualified to AEC-Q200
- Operating temperature -50 ~ +155°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



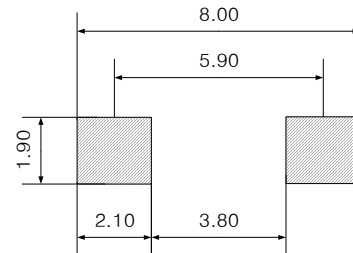
Applications

- 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
SPL7045-1R2N-00NA	1.20±30%	21.0	9.50	7.50	5.50	1R2
SPL7045-1R5N-00NA	1.50±30%	22.5	7.70	6.50	5.00	1R5
SPL7045-2R2N-00NA	2.20±30%	26.0	6.50	5.50	4.30	2R2
SPL7045-3R3N-00NA	3.30±30%	30.0	5.00	4.50	3.70	3R3
SPL7045-3R3N-00ZA	3.30±30%	18.0	5.40	4.80	3.85	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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SPL7045-4R7M-00NA	4.70±20%	35.0	4.10	3.70	3.05	4R7
SPL7045-4R7M-00ZA	4.70±20%	25.0	4.35	3.90	3.15	4R7
SPL7045-5R6M-00NA	5.60±20%	38.0	3.90	3.55	2.80	5R6
SPL7045-5R6M-00ZA	5.60±20%	31.0	4.00	3.65	2.90	5R6
SPL7045-6R8M-00NA	6.80±20%	40.0	3.65	3.25	2.65	6R8
SPL7045-6R8M-00ZA	6.80±20%	33.0	3.75	3.35	2.75	6R8
SPL7045-8R2M-00NA	8.20±20%	42.5	3.10	2.70	2.40	8R2
SPL7045-8R2M-00ZA	8.20±20%	38.0	3.20	2.80	2.50	8R2
SPL7045-100M-00NA	10.0±20%	46.5	3.00	2.60	2.30	100
SPL7045-100M-00ZA	10.0±20%	45.0	3.10	2.70	2.40	100
SPL7045-120M-00NA	12.0±20%	61.0	2.70	2.40	2.15	120
SPL7045-150M-00NA	15.0±20%	68.0	2.40	2.10	1.95	150
SPL7045-220M-00NA	22.0±20%	90.0	2.10	1.85	1.60	220
SPL7045-330M-00NA	33.0±20%	130.0	1.70	1.50	1.30	330
SPL7045-470M-00NA	47.0±20%	190.0	1.40	1.20	1.10	470
SPL7045-560M-00NA	56.0±20%	220.0	1.30	1.15	1.00	560
SPL7045-680M-00NA	68.0±20%	250.0	1.25	1.05	0.95	680
SPL7045-820M-00NA	82.0±20%	320.0	1.05	0.90	0.82	820
SPL7045-101M-00NA	100.0±20%	355.0	1.00	0.85	0.80	101
SPL7045-221M-00NA	220.0±20%	805.0	0.65	0.55	0.50	221
SPL7045-331M-00NA	330.0±20%	1.25Ω	0.54	0.45	0.40	331
SPL7045-471M-00NA	470.0±20%	1.60Ω	0.50	0.43	0.35	471
SPL7045-561M-00NA	560.0±20%	2.35Ω	0.45	0.39	0.31	561
SPL7045-681M-00NA	680.0±20%	2.55Ω	0.36	0.30	0.28	681
SPL7045-821M-00NA	820.0±20%	3.75Ω	0.33	0.25	0.23	821
SPL7045-102M-00NA	1.00mH±20%	4.45Ω	0.30	0.23	0.21	102

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