

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPH2520-10NN Series

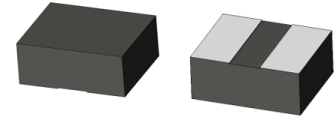
Construction

- alloy powder
- Shielded construction



Features

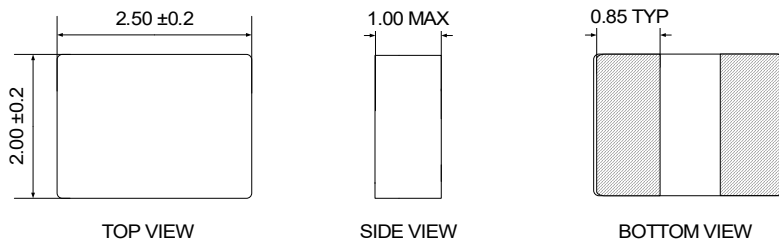
- Qualified to AEC-Q200
- Operating temperature -50 ~ +125°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



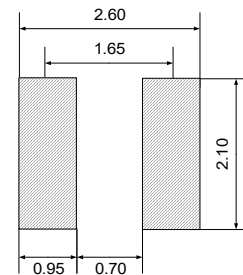
Applications

- 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,MAX)	Isat*1(A,TYP)	Isat*1(A,MAX)	Irms*2(A,TYP)	Irms*2(A,MAX)
SPH2520-R22M-10NN	0.22±20%	17.0	8.60	7.90	6.80	6.50
SPH2520-R24M-10NN	0.24±20%	17.5	8.50	7.80	6.70	6.40
SPH2520-R33M-10NN	0.33±20%	19.0	7.60	7.20	6.50	6.20
SPH2520-R47M-10NN	0.47±20%	22.0	6.90	6.50	6.10	5.60
SPH2520-R68M-10NN	0.68±20%	27.0	5.90	5.50	5.60	5.00

※Test Equipment

*Inductance : MICROTTEST 6632 (1MHz, 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 01/02/25

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SPH2520-1R0M-10NN	1.00±20%	30.0	5.30	4.80	4.50	4.10
SPH2520-1R5M-10NN	1.50±20%	55.0	4.30	3.90	3.40	3.00
SPH2520-2R2M-10NN	2.20±20%	70.0	3.70	3.30	2.60	2.30
SPH2520-3R3M-10NN	3.30±20%	100.0	2.80	2.50	2.50	2.10
SPH2520-4R7M-10NN	4.70±20%	180.0	2.60	2.00	2.00	1.60
SPH2520-6R8M-10NN	6.80±20%	320.0	2.40	1.90	1.60	1.40
SPH2520-100M-10NN	10.0±20%	560.0	1.55	1.40	1.05	0.95
SPH2520-150M-10NN	15.0±20%	760.0	1.20	1.00	0.90	0.80
SPH2520-220M-10NN	22.0±20%	1300.0	1.10	0.90	0.85	0.60

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Revised 11/24/25