

SMD Power Inductor

Fixed Inductor for Surface Mounting

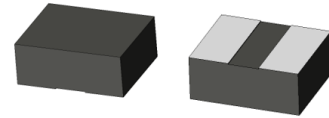
SPH2520-12NN Series

Construction

- alloy powder
- Shielded construction

Features

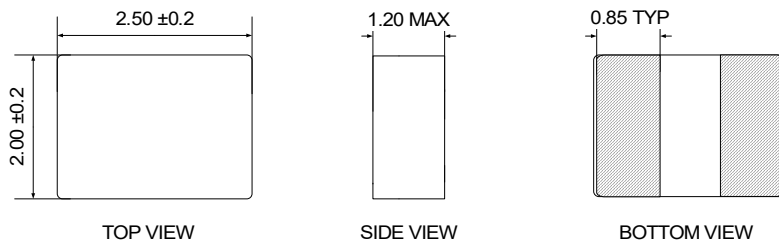
- Qualified to AEC-Q200
- Operating temperature -50 ~ +125°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



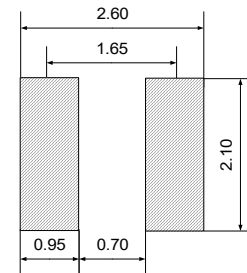
Applications

- 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-R10M-12NN	0.10±20%	10.0	13.5	12.5	12.0	10.5
SPH2520-R15M-12NN	0.15±20%	11.0	13.0	12.0	11.5	10.0
SPH2520-R22M-12NN	0.22±20%	14.0	9.60	9.00	8.20	7.60
SPH2520-R24M-12NN	0.24±20%	15.0	9.30	8.80	8.00	7.50
SPH2520-R33M-12NN	0.33±20%	17.0	8.30	7.80	6.80	6.40

※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-R47M-12NN	0.47±20%	19.0	7.50	7.00	6.50	6.00
SPH2520-R68M-12NN	0.68±20%	23.0	6.50	6.00	6.30	5.50
SPH2520-1R0M-12NN	1.00±20%	42.0	5.60	5.00	4.00	3.60
SPH2520-1R5M-12NN	1.50±20%	50.0	4.50	4.10	3.70	3.20
SPH2520-2R2M-12NN	2.20±20%	65.0	3.80	3.30	3.00	2.70
SPH2520-3R3M-12NN	3.30±20%	97.0	3.00	2.70	2.30	1.80
SPH2520-4R7M-12NN	4.70±20%	170.0	2.40	2.10	1.80	1.50
SPH2520-6R8M-12NN	6.80±20%	270.0	2.00	1.70	1.60	1.40
SPH2520-100M-12NN	10.0±20%	400.0	1.60	1.45	1.20	1.05

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