

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPH2016-12NN Series

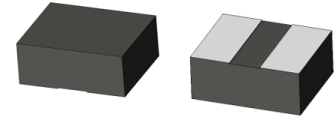
Construction

- alloy powder
- Shielded construction



Features

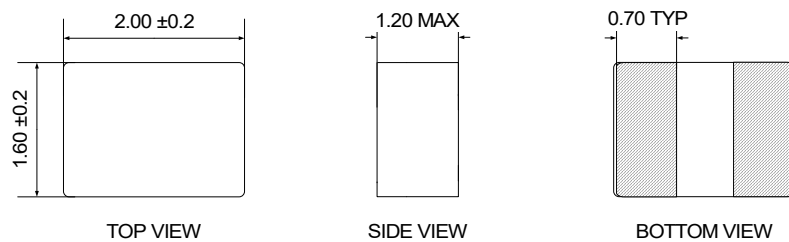
- Qualified to AEC-Q200
- Operating temperature -50 ~ +125°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



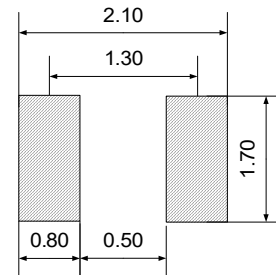
Applications

- 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)
SPH2016-R10M-12NN	0.10±20%	7.00	12.0	10.5	11.0	10.0
SPH2016-R15M-12NN	0.15±20%	11.0	11.0	9.50	9.00	8.00
SPH2016-R24M-12NN	0.24±20%	13.0	9.00	8.00	8.90	7.50
SPH2016-R33M-12NN	0.33±20%	16.0	7.50	7.00	7.40	7.00
SPH2016-R47M-12NN	0.47±20%	20.0	6.20	5.50	6.10	5.20

※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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SPH2016-R68M-12NN	0.68±20%	26.0	6.00	5.00	6.00	5.10
SPH2016-1R0M-12NN	1.00±20%	43.0	4.80	4.20	4.80	4.30
SPH2016-1R5M-12NN	1.50±20%	55.0	3.90	3.30	3.80	3.20
SPH2016-2R2M-12NN	2.20±20%	100.0	3.00	2.50	3.10	2.80
SPH2016-3R3M-12NN	3.30±20%	180.0	2.60	2.10	2.30	1.90

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