

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPH5030 Series

Construction

- Metal alloy powder
- Shielded construction



Features

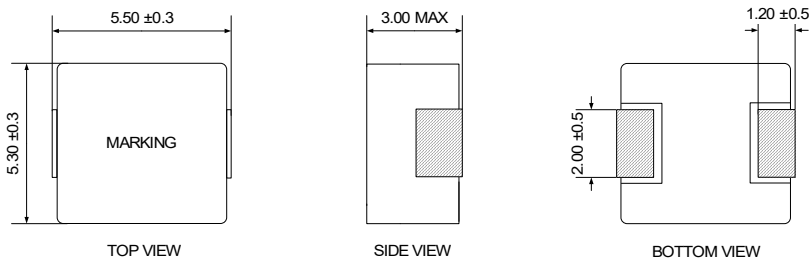
- Qualified to AEC-Q200
- Operating temperature -50 ~ +125°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



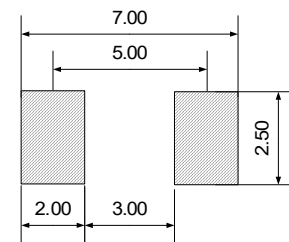
Applications

- 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)	SRF(MHz,TYP)	Isat*1(A,TYP)	Irms*2(A,TYP)	Marking
SPH5030-R10M	0.10±20%	3.00	320.0	30.0	25.0	R10
SPH5030-R20M	0.20±20%	4.00	185.0	20.0	14.0	R20
SPH5030-R33M	0.33±20%	6.00	115.0	18.0	12.0	R33
SPH5030-R47M	0.47±20%	8.50	105.0	15.0	11.0	R47
SPH5030-R68M	0.68±20%	12.0	85.0	11.5	9.00	R68

※Test Equipment

*Inductance : MICROTTEST 6632 (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : MICROTTEST 6632 + 6240

*SRF : Agilent HP8753ES

*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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SPH5030-1R0M	1.00±20%	14.0	55.0	10.0	8.50	1R0
SPH5030-1R2M	1.20±20%	16.0	52.0	9.50	8.30	1R2
SPH5030-1R5M	1.50±20%	25.0	51.0	9.00	8.20	1R5
SPH5030-2R2M	2.20±20%	29.0	38.0	7.00	6.50	2R2
SPH5030-3R3M	3.30±20%	38.0	30.0	6.00	5.50	3R3
SPH5030-4R7M	4.70±20%	60.0	29.0	4.60	4.30	4R7
SPH5030-6R8M	6.80±20%	90.0	22.0	3.60	3.40	6R8
SPH5030-8R2M	8.20±20%	105.0	20.0	3.50	3.25	8R2
SPH5030-100M	10.0±20%	125.0	18.0	3.40	3.20	100
SPH5030-150M	15.0±20%	180.0	12.0	2.20	1.70	150

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