

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPH7030 Series

Construction

- Metal alloy powder
- Shielded construction



Features

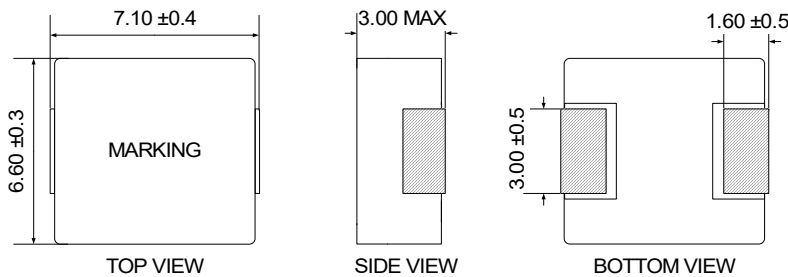
- Qualified to AEC-Q200
- Operating temperature -50 ~ +125°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



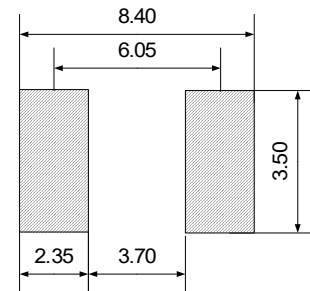
Applications

- 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
SPH7030-R12N	0.12±30%	1.30	300.0	55.0	30.0	R12
SPH7030-R15N	0.15±30%	1.60	220.0	41.0	29.0	R15
SPH7030-R22M	0.22±30%	3.00	185.0	34.0	24.0	R22
SPH7030-R33M	0.33±20%	3.50	110.0	25.0	21.0	R33
SPH7030-R47M	0.47±20%	4.10	83.0	20.0	18.0	R47

※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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SPH7030-R56M	0.56±20%	4.50	79.0	18.0	16.5	R56
SPH7030-R68M	0.68±20%	5.30	65.0	17.0	16.0	R68
SPH7030-R82M	0.82±20%	6.00	56.0	16.0	14.0	R82
SPH7030-1R0M	1.00±20%	7.40	55.0	15.0	12.0	1R0
SPH7030-1R5M	1.50±20%	12.1	37.0	12.0	11.0	1R5
SPH7030-2R2M	2.20±20%	15.0	31.0	10.0	9.50	2R2
SPH7030-3R3M	3.30±20%	22.0	30.0	9.50	8.50	3R3
SPH7030-4R7M	4.70±20%	33.0	19.0	9.00	6.00	4R7
SPH7030-5R6M	5.60±20%	42.0	18.0	6.50	5.50	5R6
SPH7030-6R8M	6.80±20%	48.0	16.0	6.00	5.00	6R8
SPH7030-8R2M	8.20±20%	60.0	15.0	5.50	4.80	8R2
SPH7030-100M	10.0±20%	68.0	14.0	5.50	4.50	100
SPH7030-150M	15.0±20%	113.0	11.0	4.00	3.00	150
SPH7030-220M	22.0±20%	170.0	10.0	3.00	2.50	220
SPH7030-330M	33.0±20%	270.0	8.00	2.50	2.00	330
SPH7030-470M	47.0±20%	385.0	6.50	2.00	1.50	470

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