

# SMD Power Inductor

## Fixed Inductor for Surface Mounting

## SPH7040 Series

### Construction

- Metal alloy powder
- Shielded construction



### Features

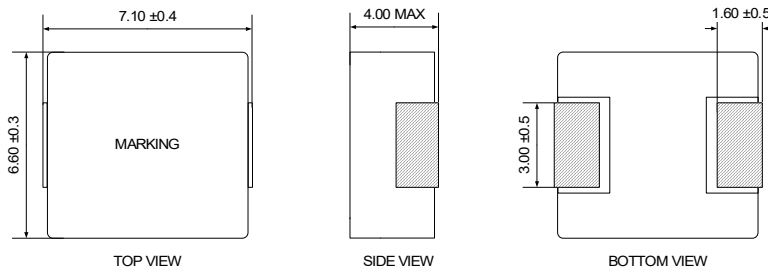
- Qualified to AEC-Q200
- Operating temperature -50 ~ +125°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



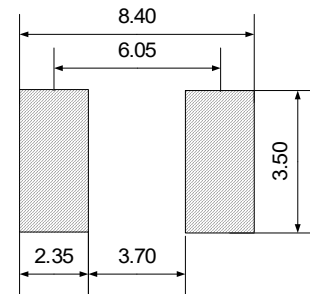
### Applications

- 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
SPH7040-R68M	0.68±20%	5.00	72.0	19.0	17.0	R68
SPH7040-1R0M	1.00±20%	6.60	54.0	16.0	13.5	1R0
SPH7040-1R5M	1.50±20%	10.0	42.0	12.5	12.0	1R5
SPH7040-2R2M	2.20±20%	14.0	33.0	11.0	10.0	2R2
SPH7040-3R3M	3.30±20%	20.0	25.0	9.50	8.50	3R3

#### ※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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SPH7040-4R7M	4.70±20%	30.0	20.0	9.00	6.50	4R7
SPH7040-6R8M	6.80±20%	45.0	17.5	6.50	5.50	6R8
SPH7040-8R2M	8.20±20%	55.0	13.0	6.00	5.20	8R2
SPH7040-100M	10.0±20%	65.0	12.5	5.50	4.80	100
SPH7040-150M	15.0±20%	95.0	11.0	4.50	3.70	150
SPH7040-220M	22.0±20%	125.0	10.0	4.00	3.30	220
SPH7040-330M	33.0±20%	240.0	7.00	3.00	2.20	330
SPH7040-470M	47.0±20%	320.0	6.00	2.00	1.80	470

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