

# SMD Power Inductor

## Fixed Inductor for Surface Mounting

## SPH13060 Series

### Construction

- Metal alloy powder
- Shielded construction



### Features

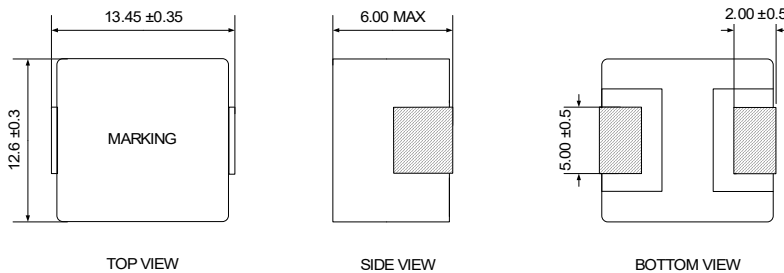
- Qualified to AEC-Q200
- Operating temperature -50 ~ +125°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



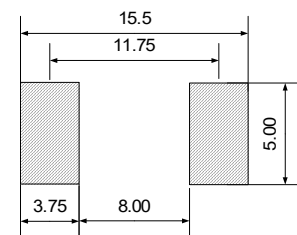
### Applications

- 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
SPH13060-3R3M	3.30±20%	6.80	19.0	25.0	17.5	3R3
SPH13060-4R7M	4.70±20%	9.00	15.0	24.0	15.0	4R7
SPH13060-5R6M	5.60±20%	11.0	13.0	22.5	13.0	5R6
SPH13060-6R8M	6.80±20%	13.5	12.0	19.0	12.0	6R8
SPH13060-8R2M	8.20±20%	16.0	11.5	13.5	11.0	8R2

#### ※Test Equipment

\*Inductance : MICROTEST 6632 (100kHz, 1.0V)

\*DCR Meter : ABM3245 (20mΩ~2MΩ)

\*Bias Current : MICROTEST 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 20/04/21

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Ordering code	Inductance(uH)	DCR(mΩ,MAX)	SRF(MHz,TYP)	Isat*1(A,TYP)	Irms*2(A,TYP)	Marking
SPH13060-100M	10.0±20%	20.7	8.10	12.5	10.0	100
SPH13060-120M	12.0±20%	23.0	7.90	10.0	9.00	120
SPH13060-150M	15.0±20%	29.0	7.70	9.00	8.50	150
SPH13060-180M	18.0±20%	35.0	6.80	8.00	7.50	180
SPH13060-220M	22.0±20%	39.5	6.50	7.50	7.00	220
SPH13060-270M	27.0±20%	56.0	6.00	6.50	6.00	270
SPH13060-330M	33.0±20%	75.0	4.70	6.00	5.50	330
SPH13060-470M	47.0±20%	90.0	4.00	5.50	5.00	470
SPH13060-680M	68.0±20%	140.0	3.50	4.50	4.00	680
SPH13060-101M	100.0±20%	200.0	2.50	3.50	3.00	101
SPH13060-121M	120.0±20%	235.0	2.40	3.20	2.00	121
SPH13060-151M	150.0±20%	350.0	2.00	2.70	1.50	151

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