

SMD Power Inductor

Fixed Inductor for Surface Mounting

SPH13040 Series

Construction

- Metal alloy powder
- Shielded construction



Features

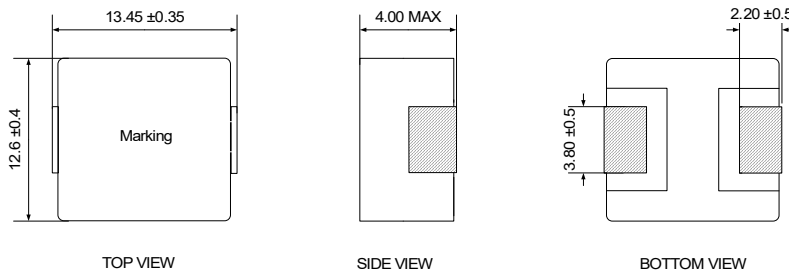
- Qualified to AEC-Q200
- Operating temperature -50 ~ +125°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



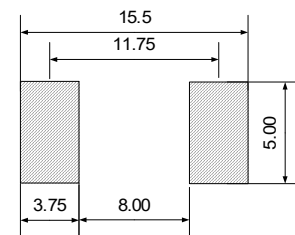
Applications

- 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)	Isat*1(A,TYP)	Irms*2(A,TYP)	Marking
SPH13040-R22M	0.22±20%	0.90	50.0	42.0	R22
SPH13040-R47M	0.47±20%	2.00	48.0	33.0	R47
SPH13040-R68M	0.68±20%	3.50	47.0	28.0	R68
SPH13040-R82M	0.82±20%	4.50	40.0	28.0	R82
SPH13040-1R0M	1.00±20%	7.50	35.0	24.0	1R0

※Test Equipment

*Inductance : MICROTTEST 6632 (100kHz, 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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SPH13040-1R5M	1.50±20%	9.50	30.5	20.0	1R5
SPH13040-2R2M	2.20±20%	11.5	26.0	18.0	2R2
SPH13040-3R3M	3.30±20%	13.0	21.0	15.0	3R3
SPH13040-4R7M	4.70±20%	14.5	18.0	13.0	4R7
SPH13040-6R8M	6.80±20%	20.0	14.0	9.00	6R8
SPH13040-100M	10.0±20%	25.0	10.0	8.00	100
SPH13040-150M	15.0±20%	39.0	7.50	6.50	150
SPH13040-220M	22.0±20%	51.0	6.00	4.50	220

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