SMD Power Inductor

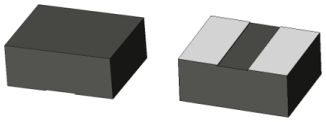
Fixed Inductor for Surface Mounting — SPH2016-10NN Series

Construction

- alloy powder
- Shielded construction

Features

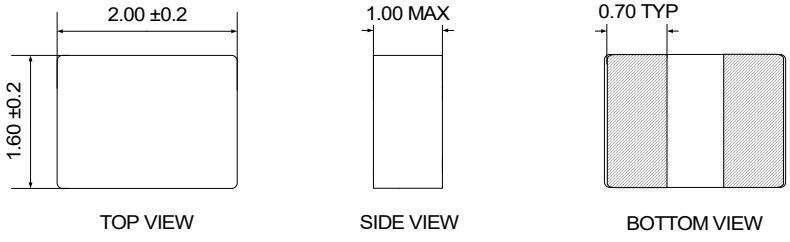
- Qualified to AEC-Q200
- Operating temperature -50 ~ +125°C (Including self temperature)
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



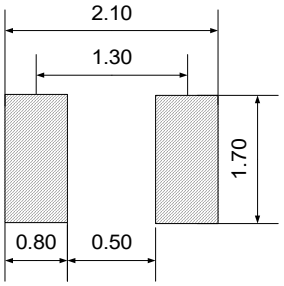
Applications

- 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)	Isat*1(A,MAX)	Irms*2(A,TYP)	Irms*2(A,MAX)
SPH2016-R10M-10NN	0.10±20%	12.0	9.00	8.40	8.50	8.00
SPH2016-R22M-10NN	0.22±20%	18.0	8.20	7.50	6.90	6.30
SPH2016-R24M-10NN	0.24±20%	19.0	8.00	7.40	6.80	6.20
SPH2016-R33M-10NN	0.33±20%	22.0	7.00	6.50	5.70	5.30
SPH2016-R47M-10NN	0.47±20%	25.0	6.50	6.00	5.60	5.25

※Test Equipment

*Inductance : MICROTEST 6632 (1MHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : MICROTEST 6632 + 6240

***Notes**

*1.Isat : DC current (A) that will cause L0 to drop approximately 30%

*2.Irms : DC current (A) that will cause an approximate △T of 40℃

*Specifications subject to change without notice. Please check our website for latest information.

Revised 21/01/26

엘에스통신주식회사 LS Communication Co.,Ltd.

LS Bldg., 95, Hwachang-ro, Manan-gu, Anyang-si, Gyeonggi-do, Republic of Korea

KOREA : +82-31-474-5028 thkim@lscomm.co.kr

JAPAN : +81-03-5615-8174 yamamoto@lscomm.co.jp

SMD Power Inductor

Fixed Inductor for Surface Mounting — SPH2016-10NN Series

Electrical Characteristics

Ordering code	Inductance(uH)	DCR(mΩ,MAX)	Isat*1(A,TYP)	Isat*1(A,MAX)	Irms*2(A,TYP)	Irms*2(A,MAX)
SPH2016-R68M-10NN	0.68±20%	32.0	5.70	5.50	5.50	5.20
SPH2016-1R0M-10NN	1.00±20%	43.0	4.60	4.20	4.50	4.10
SPH2016-1R5M-10NN	1.50±20%	100.0	3.20	2.90	2.60	2.30
SPH2016-2R2M-10NN	2.20±20%	130.0	3.00	2.80	2.50	2.10
SPH2016-3R3M-10NN	3.30±20%	170.0	2.30	2.00	2.00	1.50
SPH2016-4R7M-10NN	4.70±20%	276.0	1.60	1.40	1.90	1.40
SPH2016-6R8M-10NN	6.80±20%	290.0	1.40	1.10	1.40	1.10
SPH2016-100M-10NN	10.0±20%	580.0	1.40	1.10	1.00	0.70

※Test Equipment

*Inductance : MICROTEST 6632 (1MHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : MICROTEST 6632 + 6240

***Notes**

*1.Isat : DC current (A) that will cause L0 to drop approximately 30%

*2.Irms : DC current (A) that will cause an approximate △T of 40℃

*Specifications subject to change without notice. Please check our website for latest information.

Revised 21/01/26

엘에스통신주식회사 LS Communication Co.,Ltd.

LS Bldg., 95, Hwachang-ro, Manan-gu, Anyang-si, Gyeonggi-do, Republic of Korea

KOREA : +82-31-474-5028 thkim@lscomm.co.kr

JAPAN : +81-03-5615-8174 yamamoto@lscomm.co.jp