

SMD Inductors

Fixed Inductor for Surface Mounting

SPE201610H

Construction

- SMD Magnetic-resin shielded type

Features

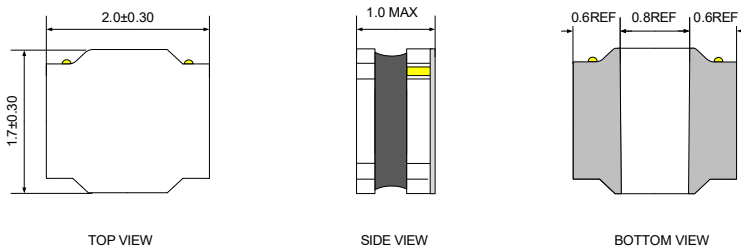
- Operating temperature -40 ~ +125°C
- High magnetic shield construction achieved by a ferrite magnetic material and compatible with high-density mounting
- Metallization on ferrite core results in excellent shock resistance and damage-free durability



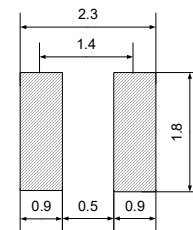
Applications

- PDA / Notebook systems
- DC/DC converters(LCD/LED/OLED display,STB)
- Portable gaming devices, personal navigation systems, personal multimedia devices

Dimensions(Unit:mm)



Recommended Land Pattern(Unit:mm)



Electrical Characteristics

Ordering code	Inductance(uH)	DCR(mΩ,MAX)	Isat*1(A,MAX)	Irms*2(A,MAX)	Marking
SPE201610H-R24N	0.24±30%	40	4.50	3.15	-
SPE201610H-R33N	0.33±30%	50	4.20	3.10	-
SPE201610H-R47N	0.47±30%	55	4.00	3.00	-
SPE201610H-R68N	0.68±30%	65	3.50	2.80	-
SPE201610H-1R0N	1.0±30%	96	3.35	2.20	-
SPE201610H-1R5N	1.5±30%	130	1.95	1.80	-
SPE201610H-2R2N	2.2±30%	195	1.90	1.50	-
SPE201610H-3R3N	3.3±30%	310	1.40	1.20	-
SPE201610H-4R7M	4.7±20%	440	1.20	1.00	-
SPE201610H-6R8M	6.8±20%	540	0.90	0.85	-
SPE201610H-100M	10.0±20%	826	0.80	0.70	-

※Test Equipment

*Inductance : Agilent 4284A (1MHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4284A + Agilent 42841A

*SRF : Agilent HP8753ES

*Notes

*1.Isat : DC current at which the inductance drops approximate 35%

*2.Irms : DC current that will cause an approximate ΔT of 40 °C

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

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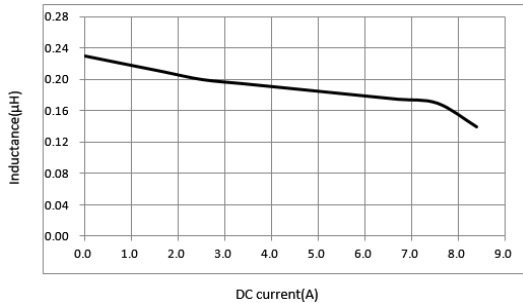
SMD High Current Inductors

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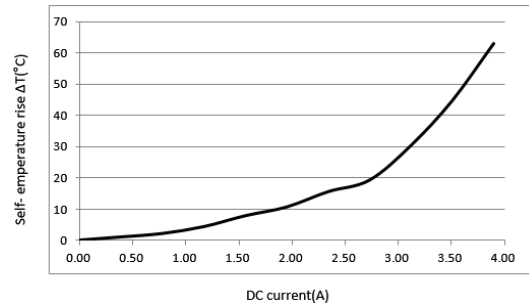
SPE201610H

*SPE201610H-R24N

Inductance vs DC current

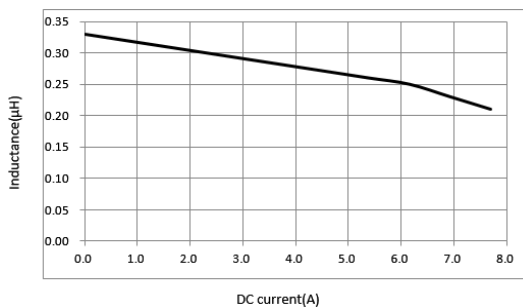


DC current vs Temperature

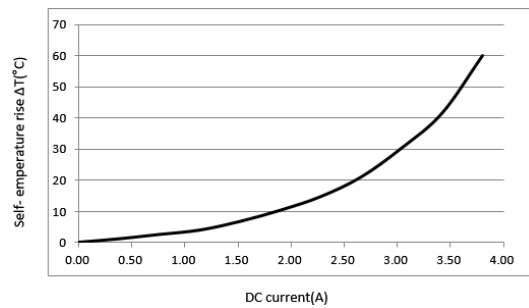


*SPE201610H-R33N

Inductance vs DC current

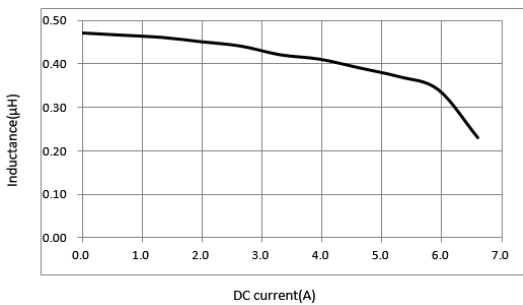


DC current vs Temperature

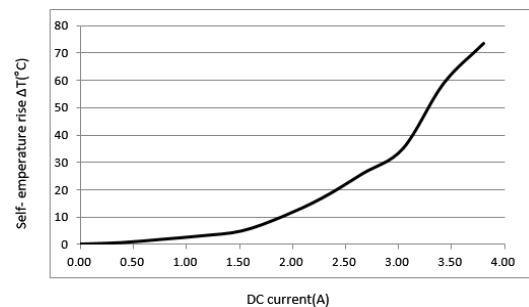


*SPE201610H-R47N

Inductance vs DC current

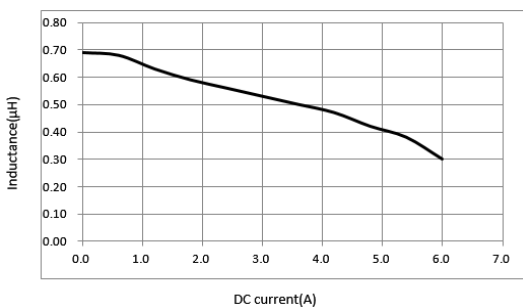


DC current vs Temperature

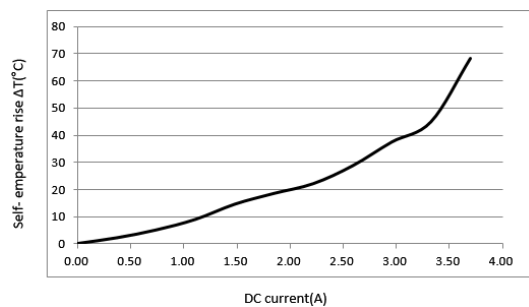


*SPE201610H-R68N

Inductance vs DC current



DC current vs Temperature



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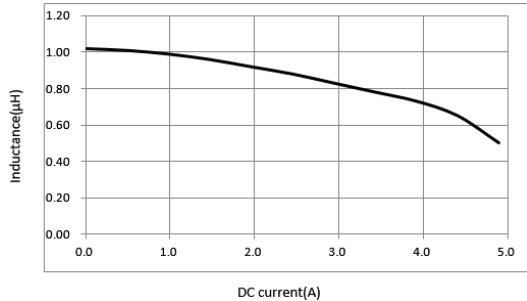
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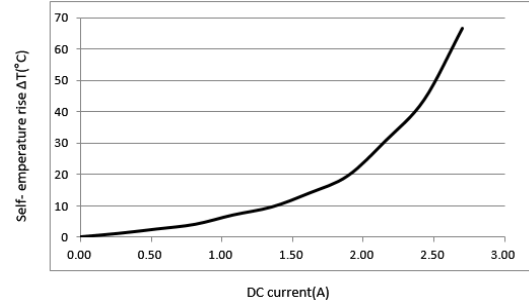
SPE201610H

*SPE201610H-1R0N

Inductance vs DC current

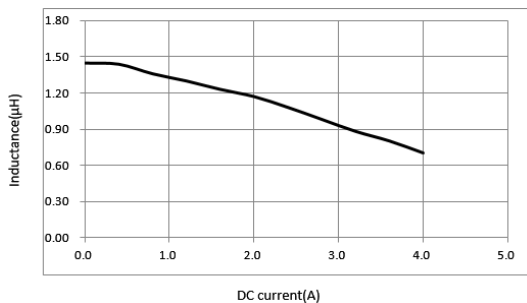


DC current vs Temperature

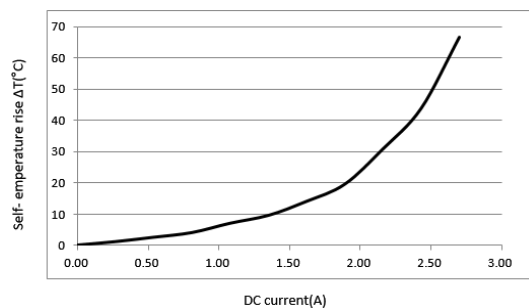


*SPE201610H-1R5N

Inductance vs DC current

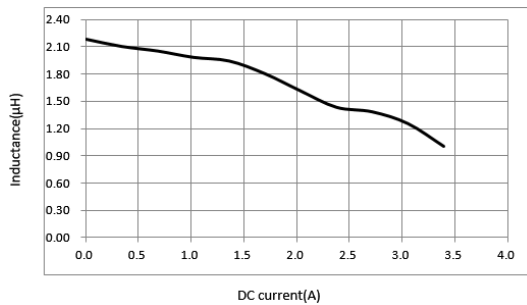


DC current vs Temperature

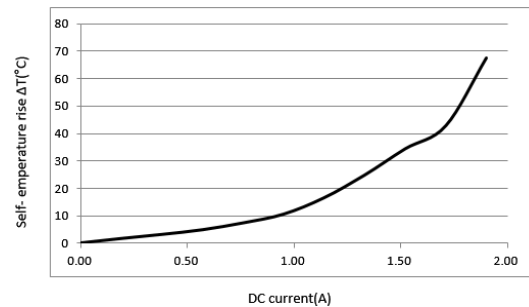


*SPE201610H-2R2N

Inductance vs DC current

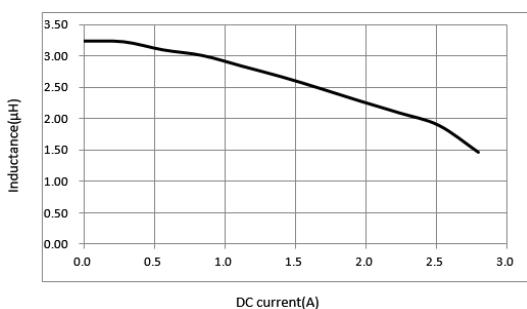


DC current vs Temperature

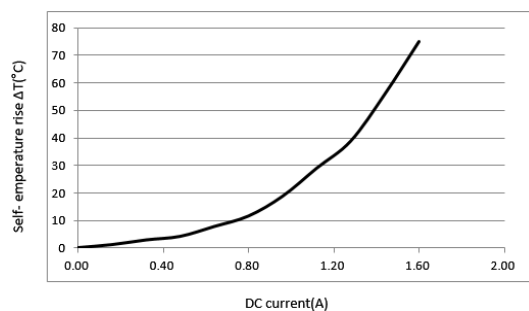


*SPE201610H-3R3N

Inductance vs DC current



DC current vs Temperature



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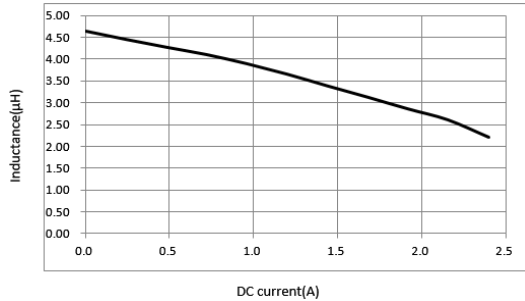
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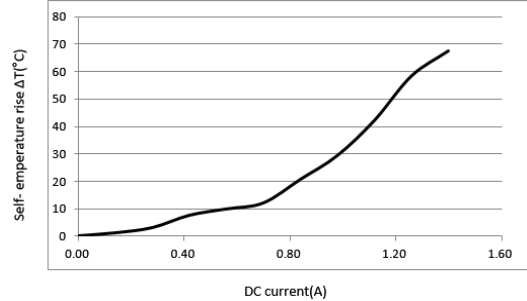
SPE201610H

*SPE201610H-4R7M

Inductance vs DC current

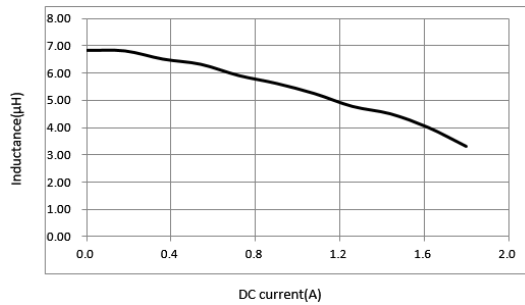


DC current vs Temperature

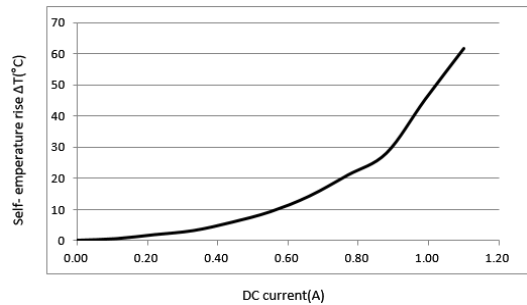


*SPE201610H-6R8M

Inductance vs DC current

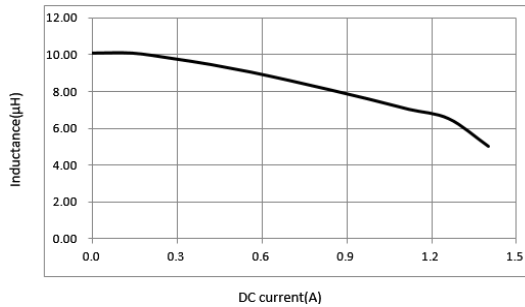


DC current vs Temperature

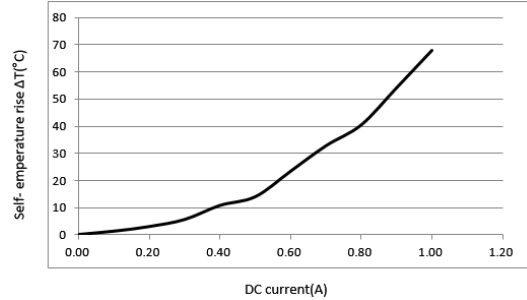


*SPE201610H-100M

Inductance vs DC current



DC current vs Temperature



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