

SMD Inductors

Fixed Inductor for Surface Mounting

SPE201610

Construction

- SMD Magnetic-resin shielded type

Features

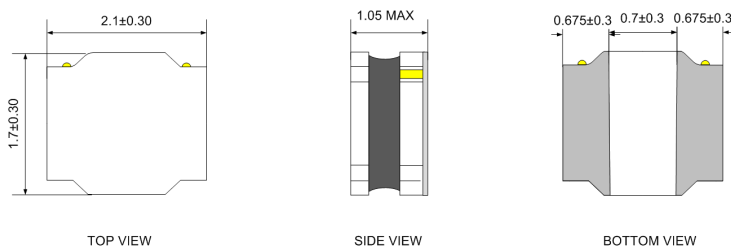
- Operating temperature -40 ~ +125°C
- High magnetic shield construction achieved by a ferrite magnetic material and compatible with high-density mounting
- Metallization on ferrite core results in excellent shock resistance and damage-free durability

Applications

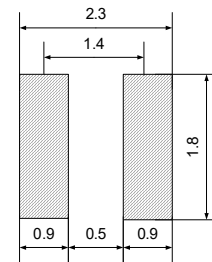
- Automotive systems / PDA / Notebook systems
- DC/DC converters(LCD/LED/OLED display,STB)
- Portable gaming devices, personal navigation systems, personal multimedia devices



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
SPE201610-R47N	0.47±30%	53.0	2.70	2.16	-
SPE201610-R68N	0.68±30%	82.0	2.00	1.60	-
SPE201610-1R0M	1.0±20%	115	2.00	1.60	-
SPE201610-1R5M	1.5±20%	156	1.70	1.36	-
SPE201610-2R2M	2.2±20%	174	1.26	1.01	-
SPE201610-3R3M	3.3±20%	294	1.05	0.84	-
SPE201610-4R7M	4.7±20%	432	0.85	0.68	-
SPE201610-6R8M	6.8±20%	620	0.72	0.58	-
SPE201610-100M	10±20%	864	0.60	0.48	-
SPE201610-150M	15±20%	1680	0.55	0.39	-
SPE201610-180M	18±20%	1700	0.40	0.32	-
SPE201610-220M	22±20%	2000	0.38	0.30	-

※Test Equipment

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

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4284A + Agilent 42841A

*SRF : Agilent HP8753ES

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

*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

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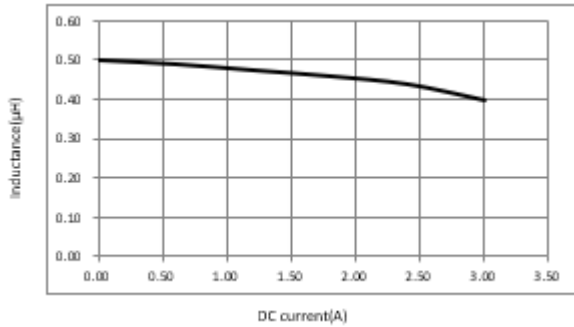
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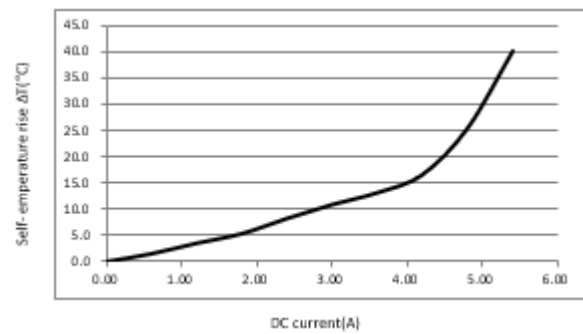
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*SPE201610-R47N

Inductance vs DC current

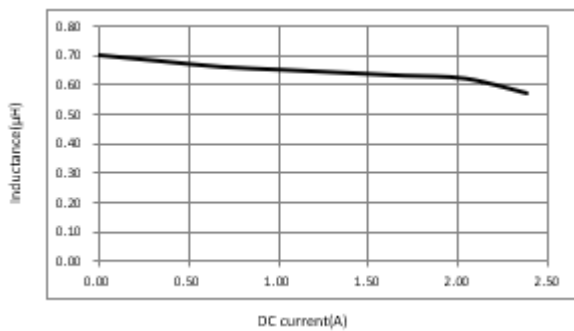


DC current vs Temperature

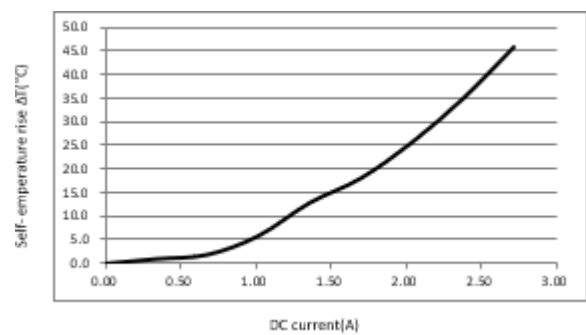


*SPE201610-R68N

Inductance vs DC current

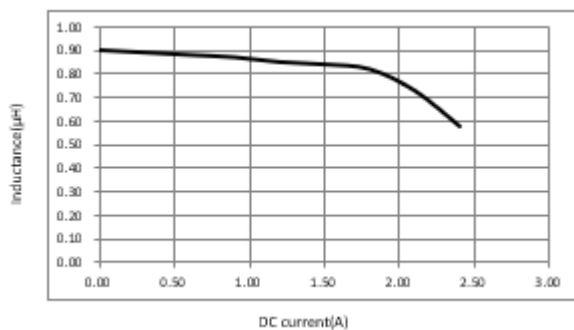


DC current vs Temperature

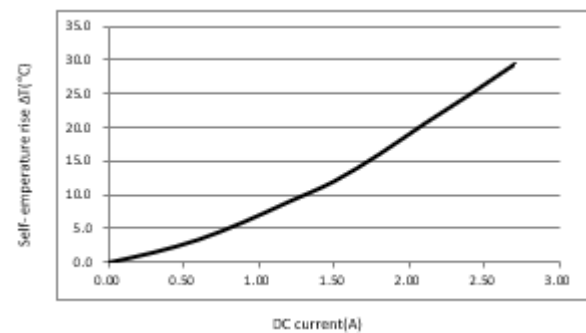


*SPE201610-1R0M

Inductance vs DC current



DC current vs Temperature



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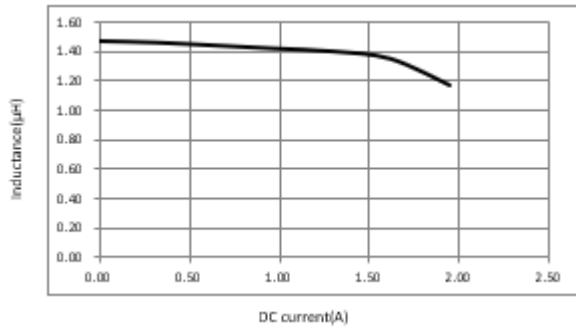
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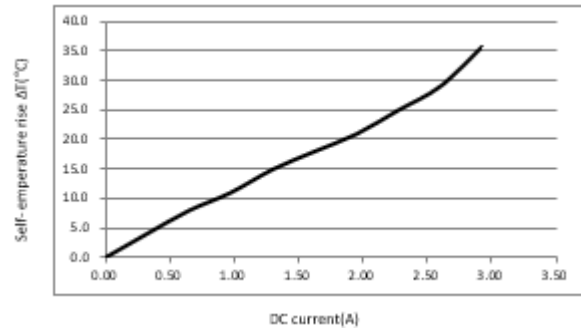
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*SPE201610-1R5M

Inductance vs DC current

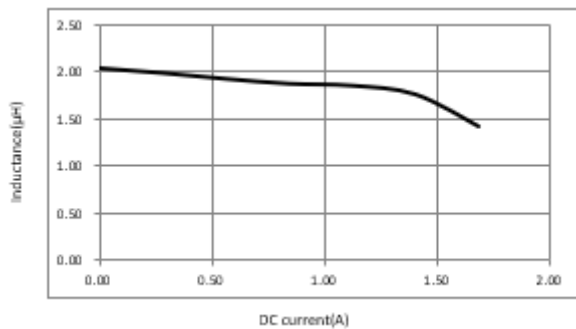


DC current vs Temperature

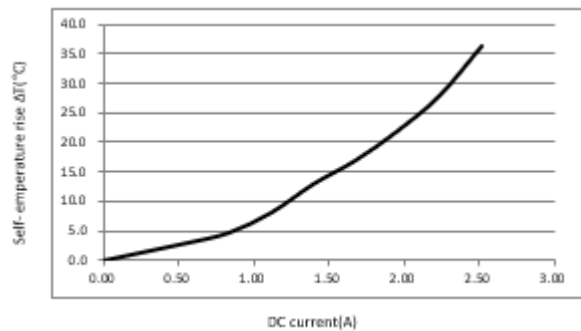


*SPE201610-2R2M

Inductance vs DC current

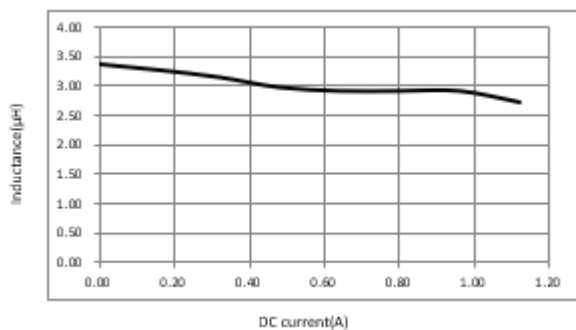


DC current vs Temperature

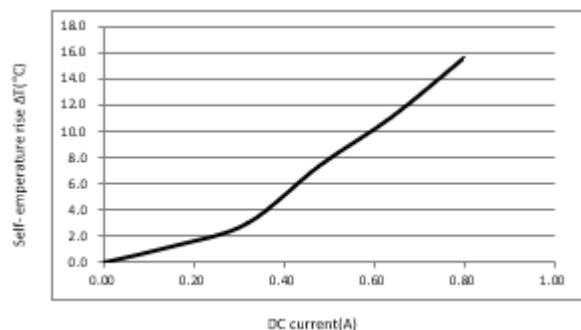


*SPE201610-3R3M

Inductance vs DC current



DC current vs Temperature



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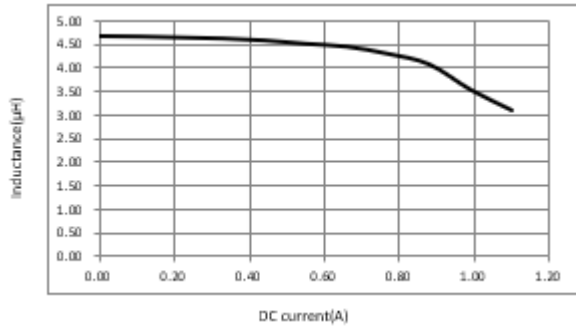
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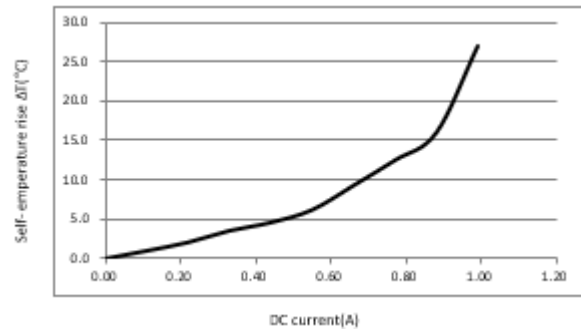
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*SPE201610-4R7M

Inductance vs DC current

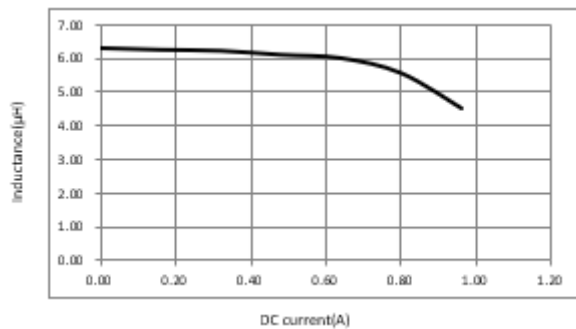


DC current vs Temperature

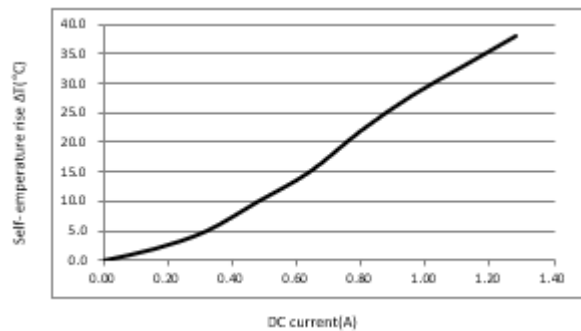


*SPE201610-6R8M

Inductance vs DC current

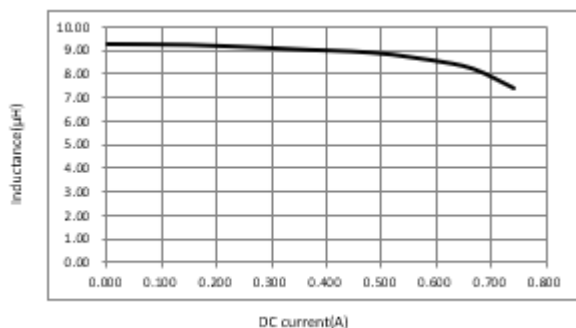


DC current vs Temperature

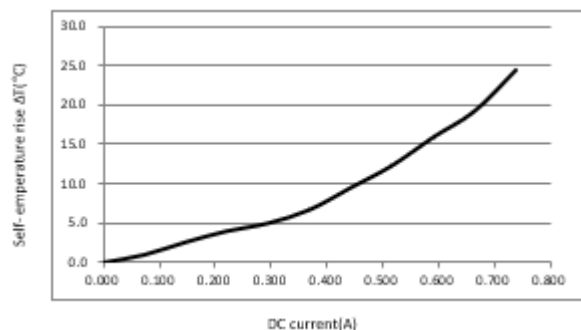


*SPE201610-100M

Inductance vs DC current



DC current vs Temperature



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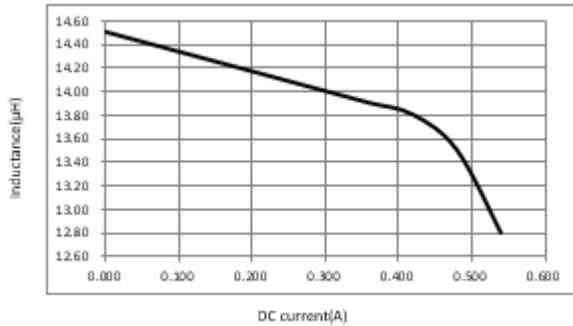
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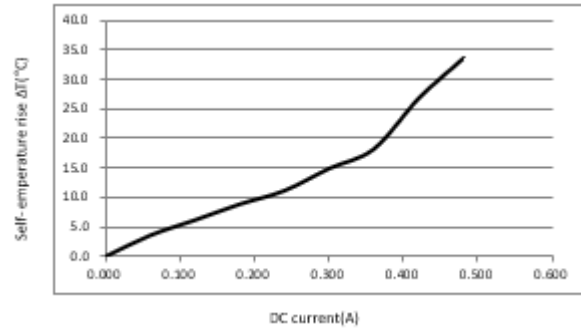
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*SPE201610-150M

Inductance vs DC current

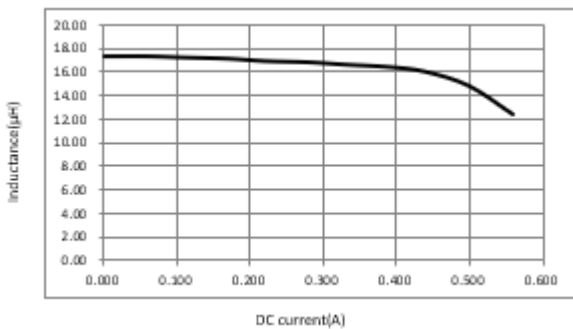


DC current vs Temperature

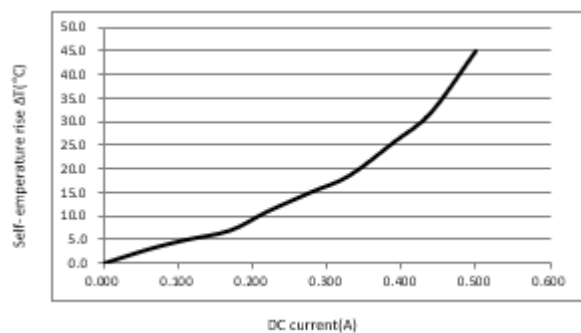


*SPE201610-180M

Inductance vs DC current

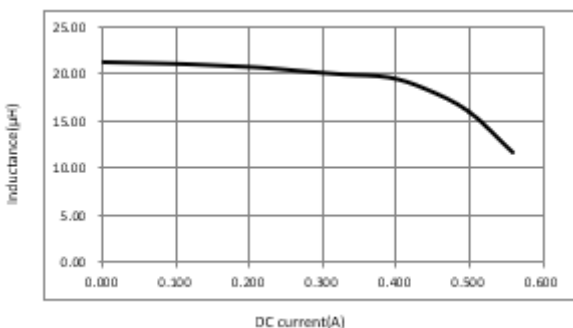


DC current vs Temperature

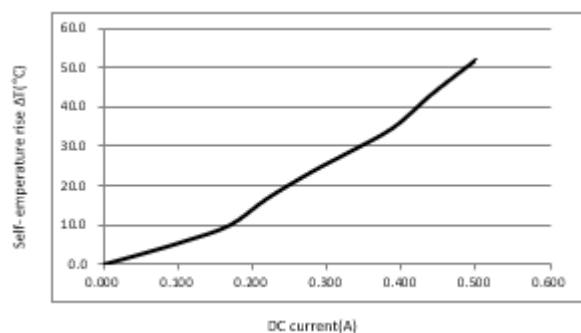


*SPE201610-220M

Inductance vs DC current



DC current vs Temperature



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