SMD Inductors

Fixed Inductor for Surface Mounting

SPE252012H

Construction

- SMD Magnetic-resin shielded type

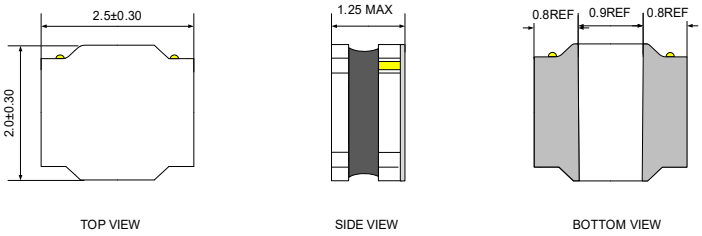
Features

- Operating temperature -40 ~ +125°C
- Qualified to AEC-Q200
- 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

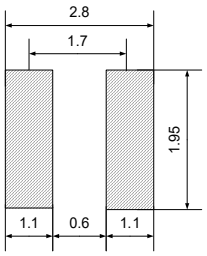
Applications

- 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)	SRF(TYP,MHz)	Isat*1(A,MAX)	Irms*2(A,MAX)	Marking
SPE252012H-R24N	0.24±30%	30	200	6.50	4.30	-
SPE252012H-R33N	0.33±30%	36	145	5.30	3.40	-
SPE252012H-R47N	0.47±30%	40	125	4.90	3.30	-
SPE252012H-R68N	0.68±30%	50	90	3.85	3.18	-
SPE252012H-1R0N	1.0±30%	65	78	3.80	3.00	-
SPE252012H-1R5N	1.5±30%	86	58	2.90	2.40	-
SPE252012H-2R2N	2.2±30%	110	48	2.60	2.10	-
SPE252012H-3R3N	3.3±30%	190	38	1.90	1.80	-
SPE252012H-4R7M	4.7±20%	260	34	1.80	1.25	-
SPE252012H-6R8M	6.8±20%	380	26	1.15	1.15	-
SPE252012H-100M	10.0±20%	480	18	1.10	0.85	-
SPE252012H-220M	22.0±20%	1080	13	0.70	0.35	-

※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.

Revised 08/28/21

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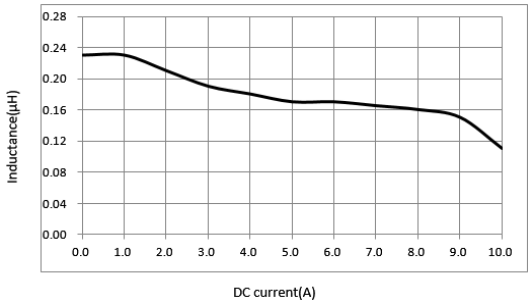
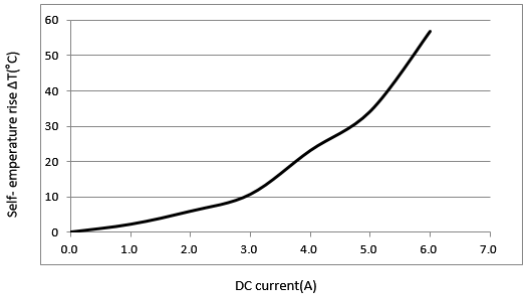
Fixed Inductor for Surface Mounting SPE252012H

*SPE252012H-R24N

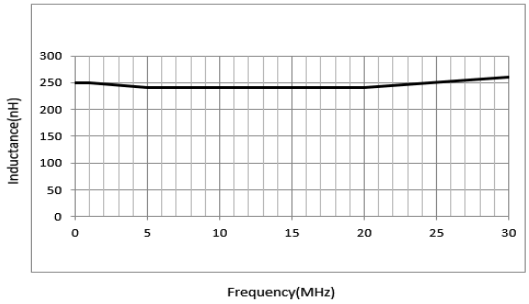
Inductance vs DC current



DC current vs Temperature

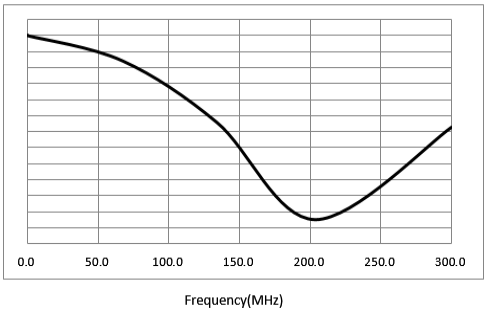


Inductance vs Frequency



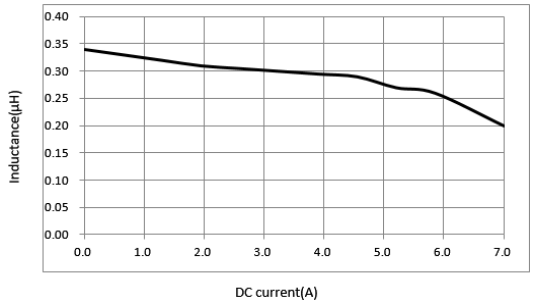
SRF(Self Resonance Frequency)

(S21)

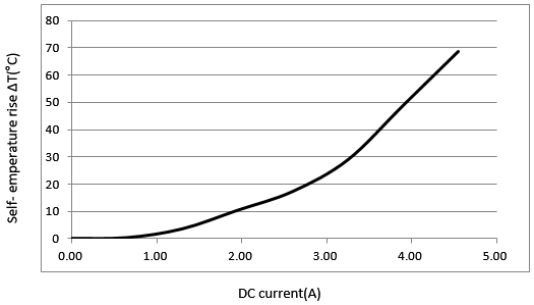


*SPE252012H-R33N

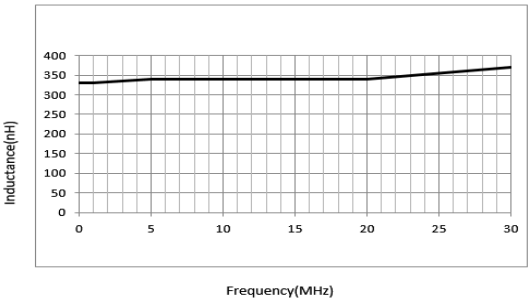
Inductance vs DC current



DC current vs Temperature

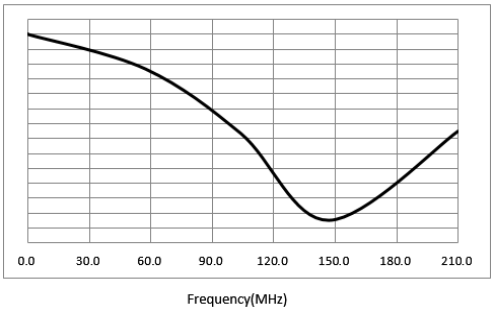


Inductance vs Frequency



SRF(Self Resonance Frequency)

(S21)



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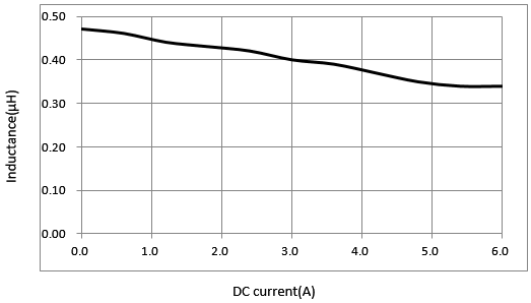
SMD High Current Inductors

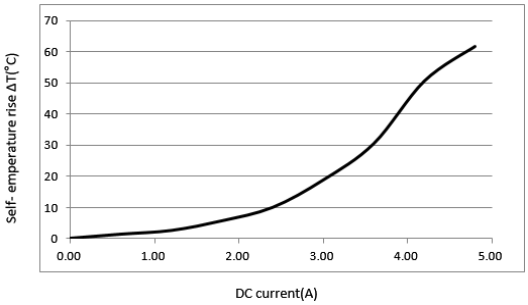
Fixed Inductor for Surface Mounting SPE252012H

*SPE252012H-R47N

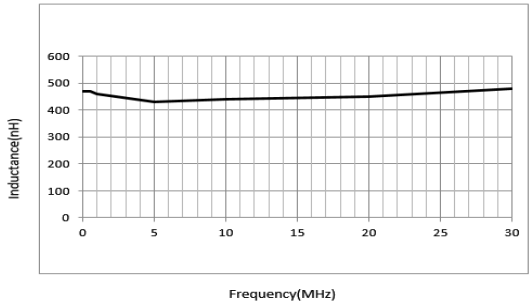
Inductance vs DC current



DC current vs Temperature

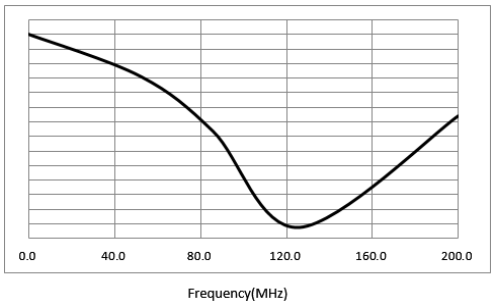


Inductance vs Frequency



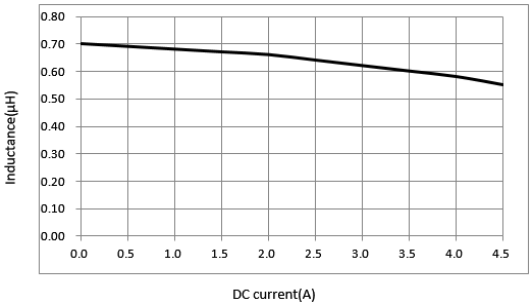
SRF(Self Resonance Frequency)

(S21)

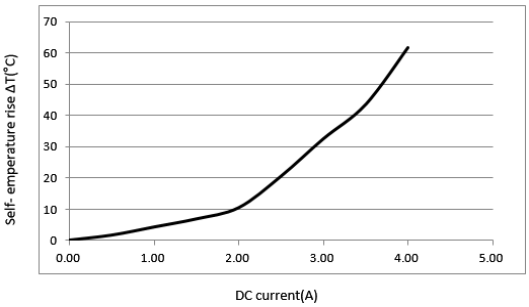


*SPE252012H-R68N

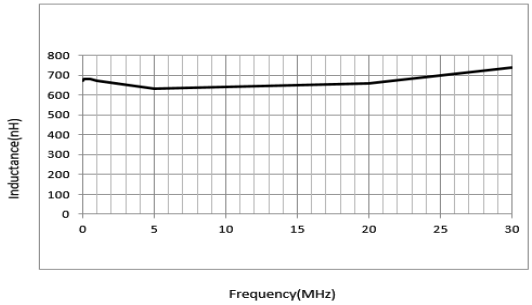
Inductance vs DC current



DC current vs Temperature

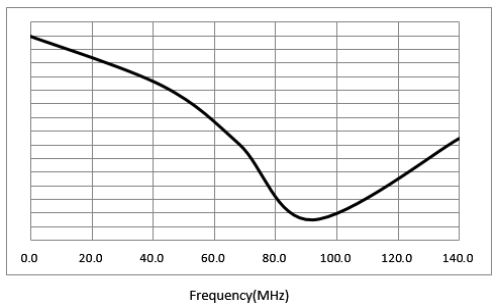


Inductance vs Frequency



SRF(Self Resonance Frequency)

(S21)



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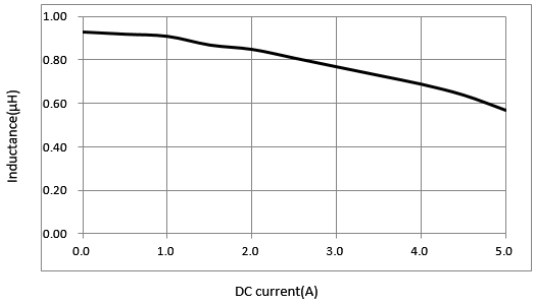
SMD High Current Inductors

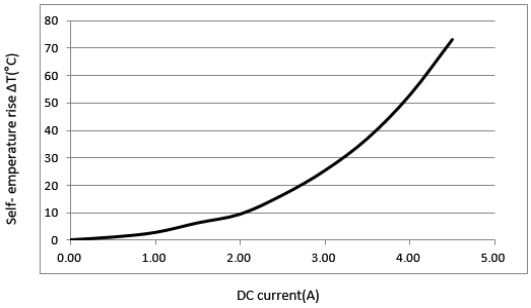
Fixed Inductor for Surface Mounting SPE252012H

*SPE252012H-1R0N

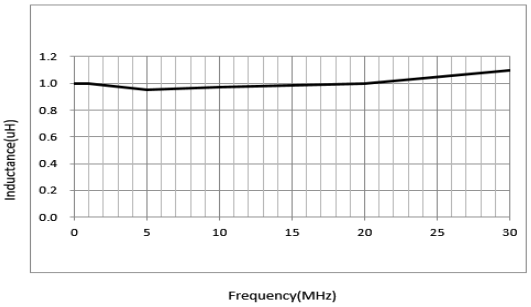
Inductance vs DC current



DC current vs Temperature

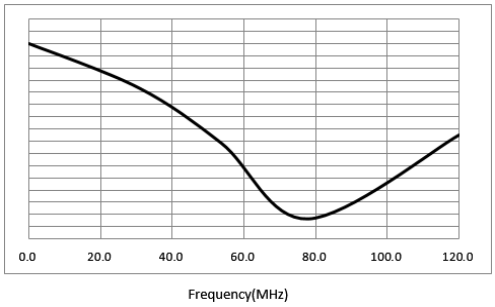


Inductance vs Frequency



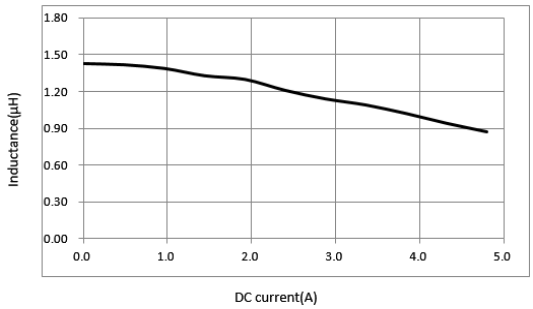
SRF(Self Resonance Frequency)

(S21)

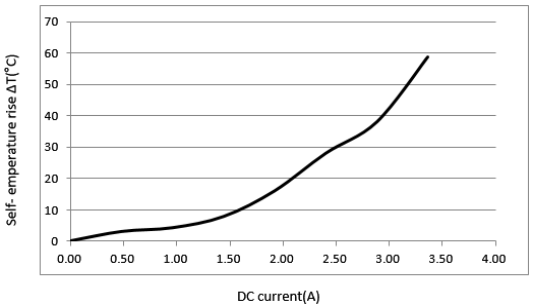


*SPE252012H-1R5N

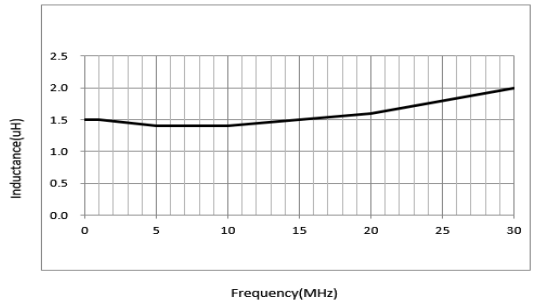
Inductance vs DC current



DC current vs Temperature

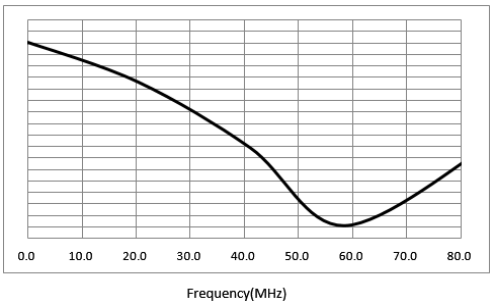


Inductance vs Frequency



SRF(Self Resonance Frequency)

(S21)



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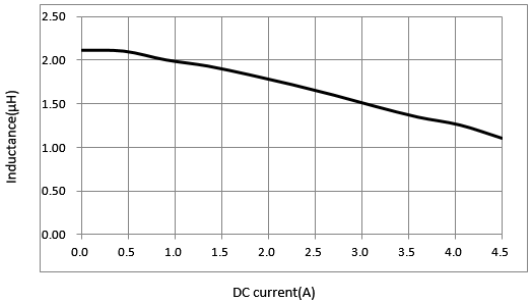
SMD High Current Inductors

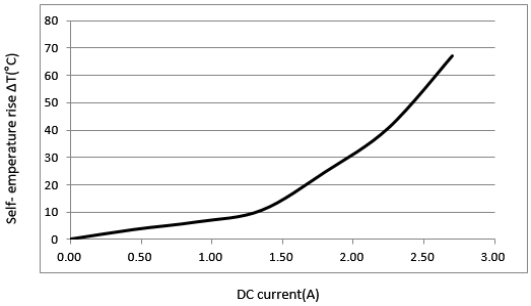
Fixed Inductor for Surface Mounting SPE252012H

*SPE252012H-2R2N

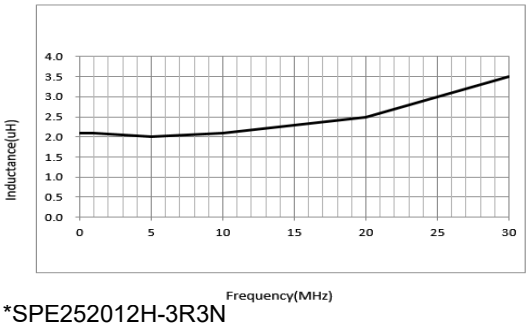
Inductance vs DC current



DC current vs Temperature

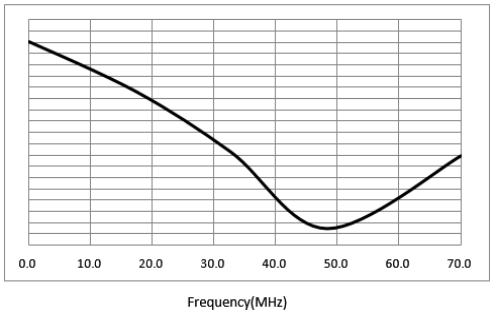


Inductance vs Frequency



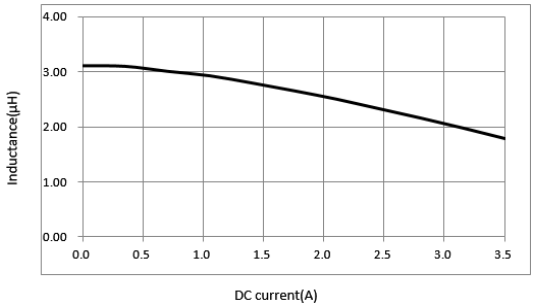
SRF(Self Resonance Frequency)

(S21)

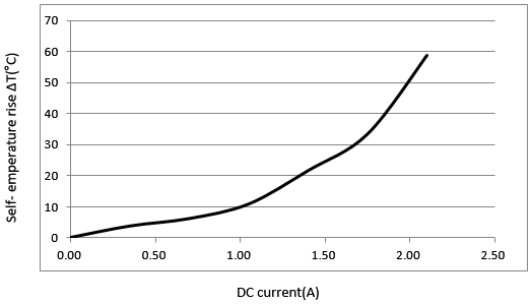


*SPE252012H-3R3N

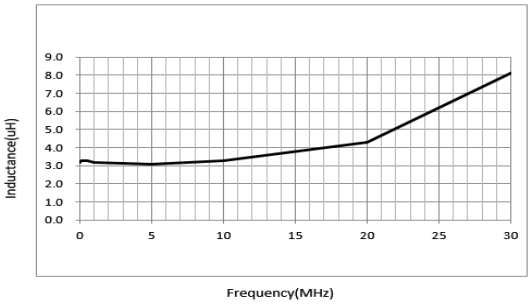
Inductance vs DC current



DC current vs Temperature

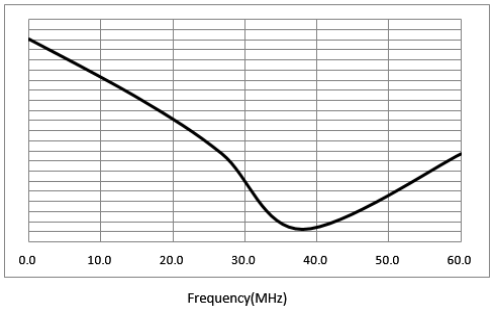


Inductance vs Frequency



SRF(Self Resonance Frequency)

(S21)



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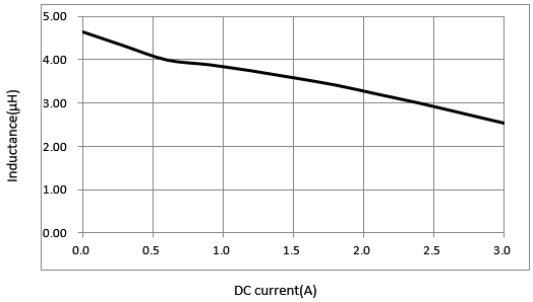
Fixed Inductor for Surface Mounting

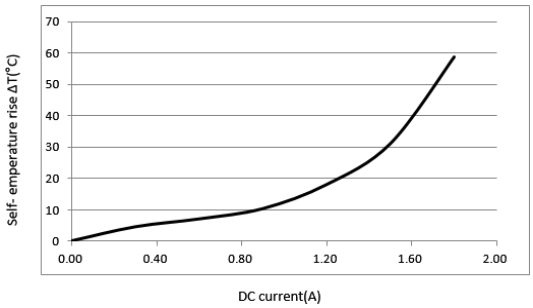
SPE252012H

*SPE252012H-4R7M

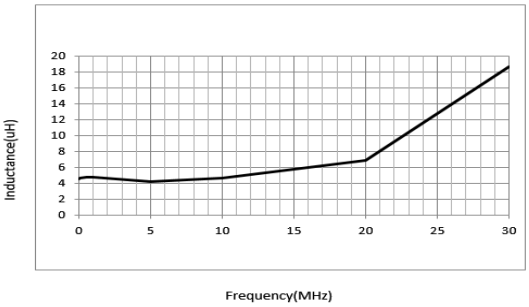
Inductance vs DC current



DC current vs Temperature

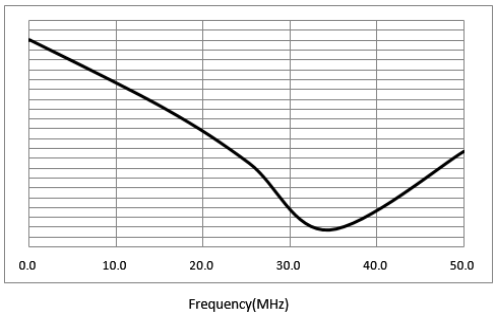


Inductance vs Frequency



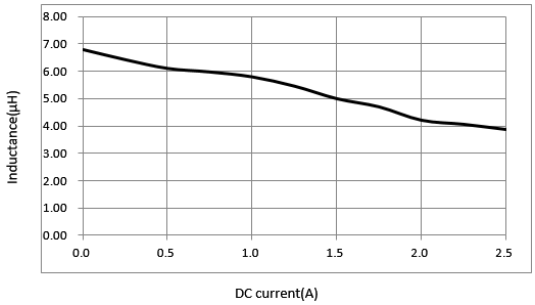
SRF(Self Resonance Frequency)

(S21)

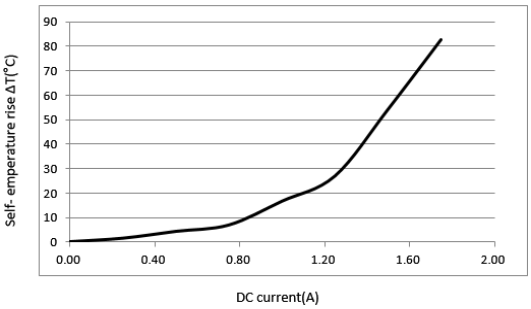


*SPE252012H-6R8M

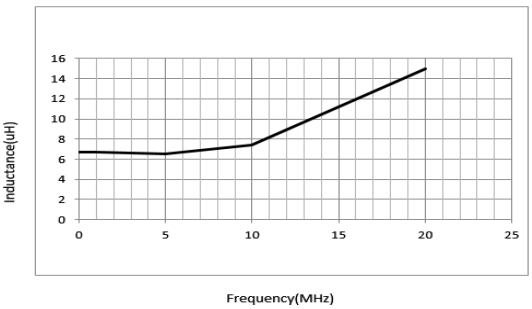
Inductance vs DC current



DC current vs Temperature

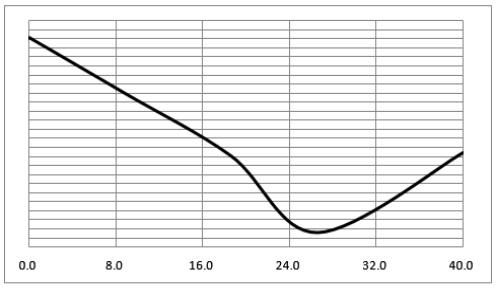


Inductance vs Frequency



SRF(Self Resonance Frequency)

(S21)



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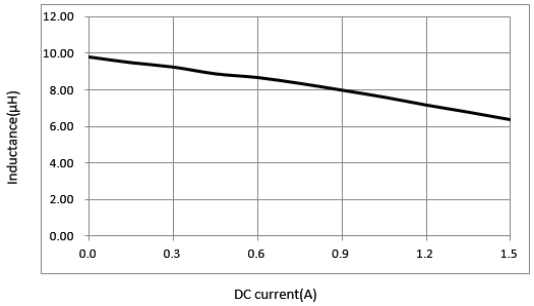
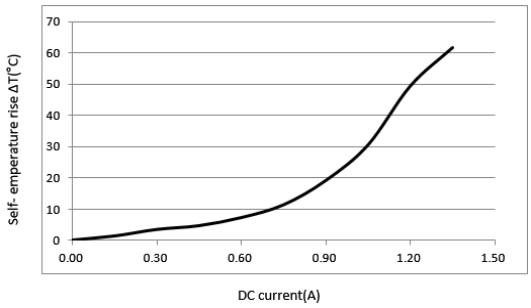
*SPE252012H-100M

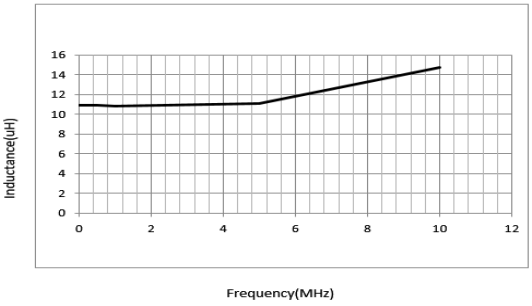
Inductance vs DC current



DC current vs Temperature

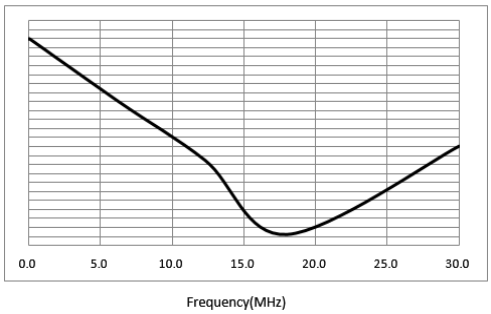


Inductance vs Frequency



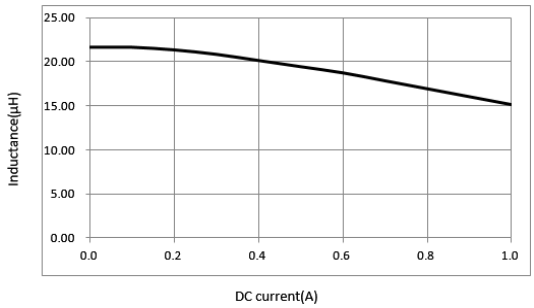
SRF(Self Resonance Frequency)

(S21)

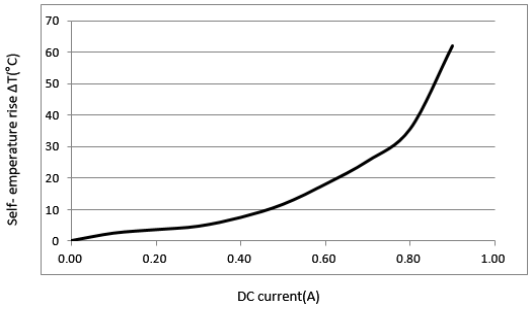


*SPE252012H-220M

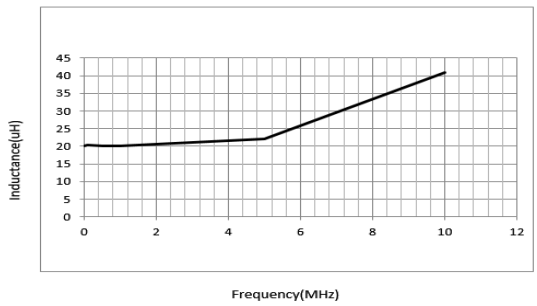
Inductance vs DC current



DC current vs Temperature

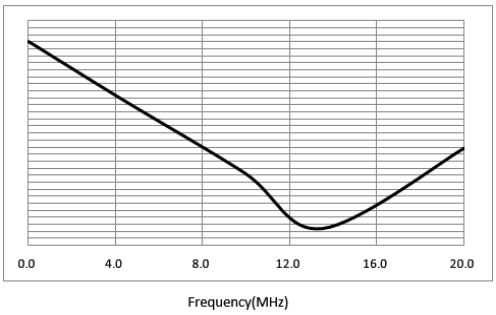


Inductance vs Frequency



SRF(Self Resonance Frequency)

(S21)



Specifications subject to change without notice. Please check our website for latest information. Revised 08/28/21

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