

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE3015**SMD Magnetic-resin shielded type**

UNIT : mm

TYPE SPE3015

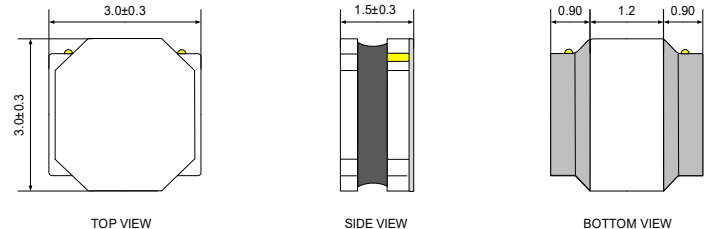
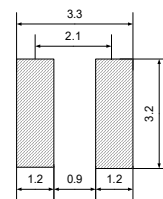
For Reflow Soldering

Frequency Range: 1kHz ~5MHz

Inductance Range: 1.0 ~ 47uH

Features

- *Low profile (1.5mm high)
- *Suitable for reflow soldering
- *Available on tape and reel for automatic insertion
- *Qualified to AEC-Q200

Dimensions**Recommended PCB Pattern****Electrical Characteristics**

Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Isat*1 (A,MAX)	Irms*2 (A,MAX)	Marking
SPE3015-1R0N	1.0±30%	30	2.3	2.2	-
SPE3015-1R2N	1.2±30%	36	2.2	1.9	-
SPE3015-1R5N	1.5±30%	45	2.1	1.6	-
SPE3015-1R8N	1.8±30%	50	1.8	1.5	-
SPE3015-2R2N	2.2±30%	60	1.6	1.4	-
SPE3015-2R7N	2.7±30%	79	1.5	1.3	-
SPE3015-3R3N	3.3±30%	85	1.3	1.2	-
SPE3015-4R7M	4.7±20%	125	1.1	1.0	-
SPE3015-5R6M	5.6±20%	150	1.0	0.95	-
SPE3015-6R8M	6.8±20%	200	0.9	0.85	-
SPE3015-8R2M	8.2±20%	225	0.8	0.75	-
SPE3015-100M	10±20%	255	0.72	0.70	-
SPE3015-120M	12±20%	360	0.65	0.60	-
SPE3015-150M	15±20%	460	0.60	0.55	-
SPE3015-220M	22±20%	520	0.50	0.47	-
SPE3015-330M	33±20%	920	0.40	0.37	-
SPE3015-470M	47±20%	1.60Ω	0.35	0.30	-

***Notes**

*1.Isat : DC current at which the inductance drops approximate 30%

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

※Test Equipment

*Inductance : Agilent 4284A (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4284A + Agilent 42841A

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

Revised 20/04/21

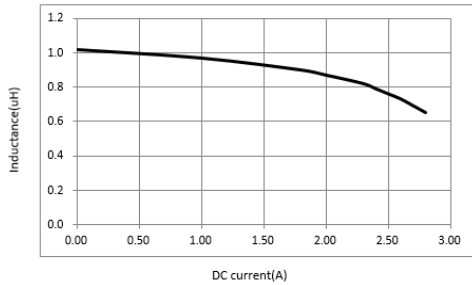
SMD Power Inductors

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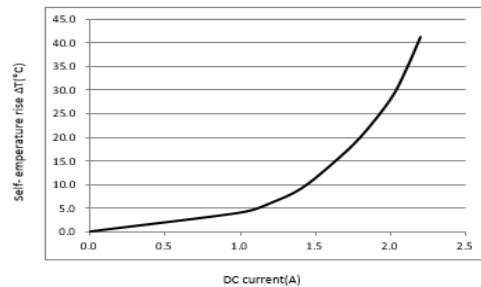
SPE3015

*SPE3015-1R0N

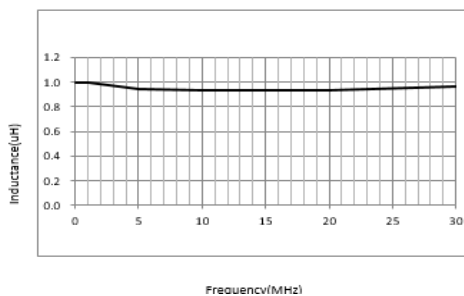
Inductance vs DC current



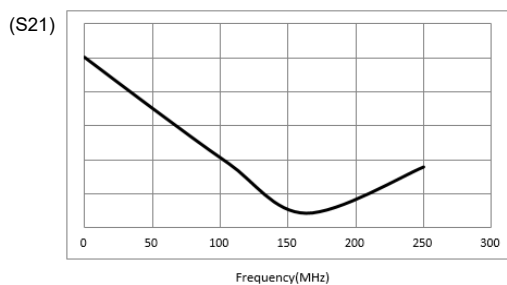
DC current vs Temperature



Inductance vs Frequency

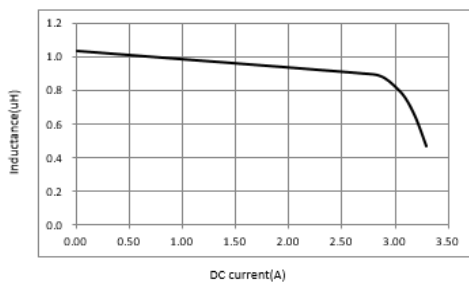


SRF(Self Resonance Frequency)

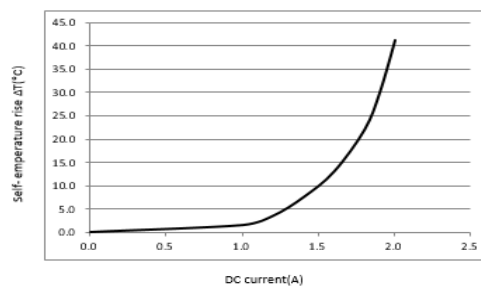


*SPE3015-1R2N

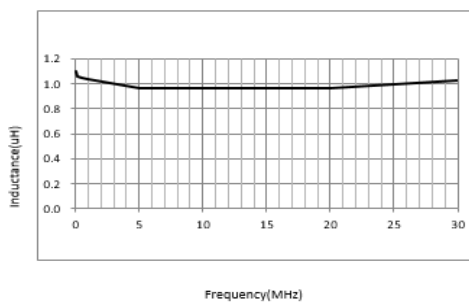
Inductance vs DC current



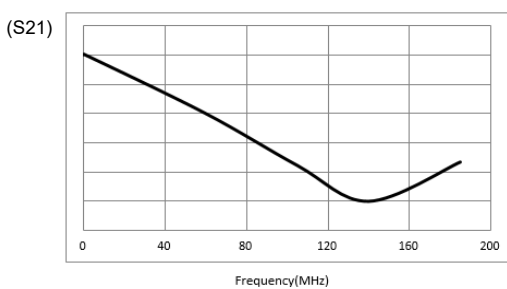
DC current vs Temperature



Inductance vs Frequency



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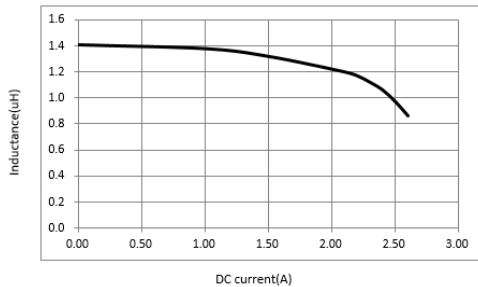
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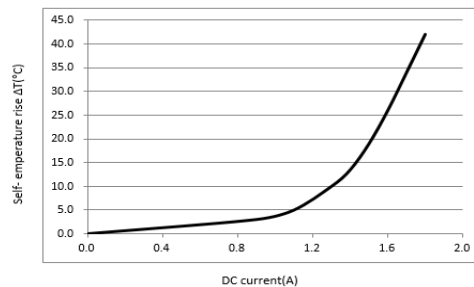
SPE3015

*SPE3015-1R5N

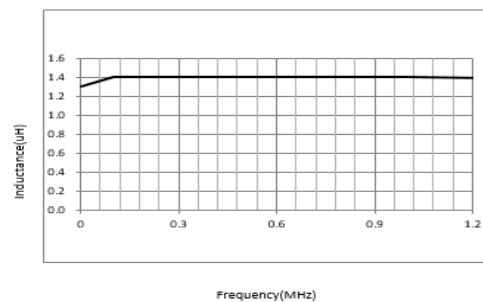
Inductance vs DC current



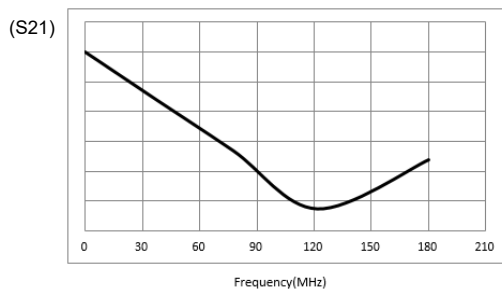
DC current vs Temperature



Inductance vs Frequency

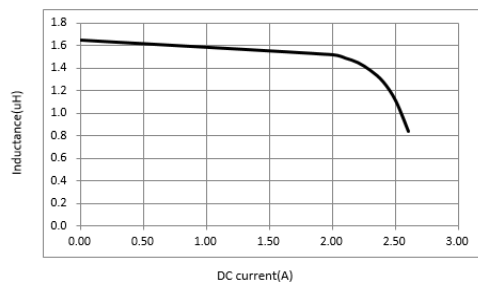


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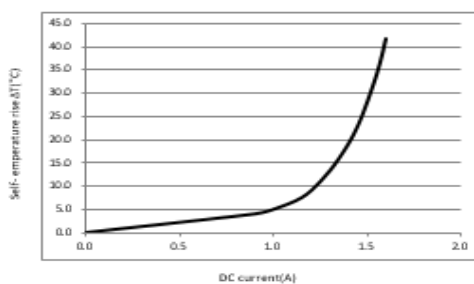


*SPE3015-1R8N

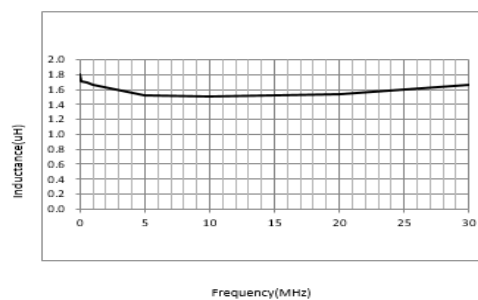
Inductance vs DC current



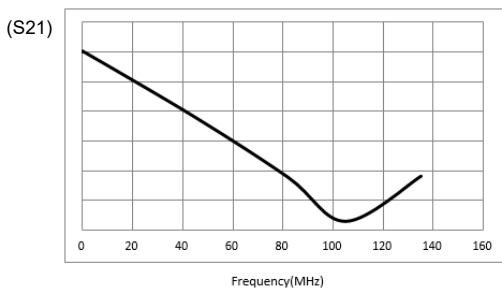
DC current vs Temperature



Inductance vs Frequency



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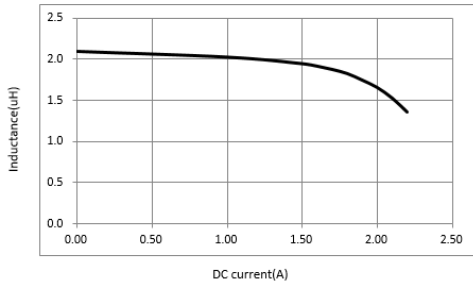
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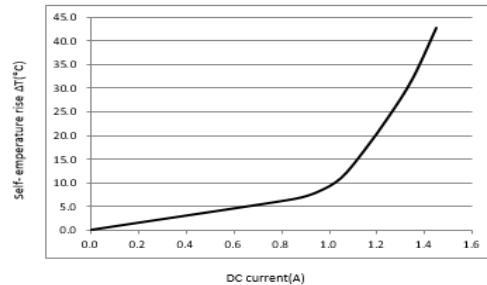
SPE3015

*SPE3015-2R2N

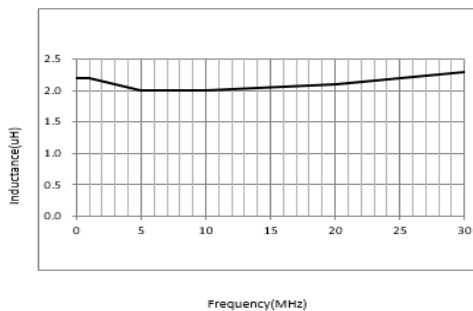
Inductance vs DC current



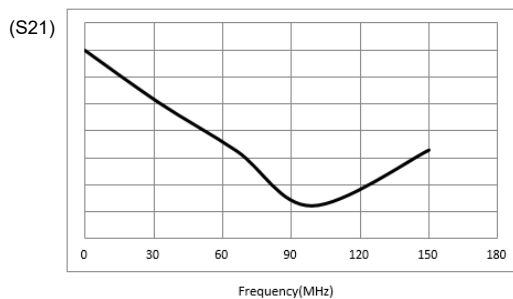
DC current vs Temperature



Inductance vs Frequency

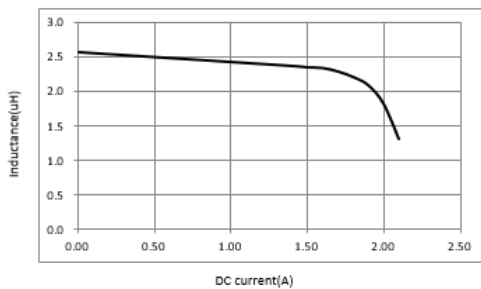


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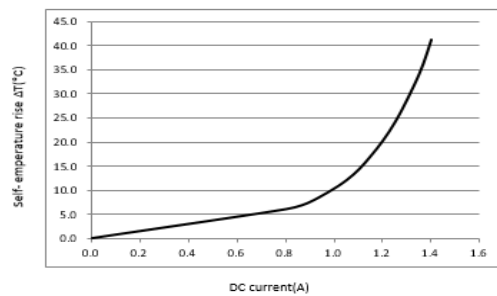


*SPE3015-2R7N

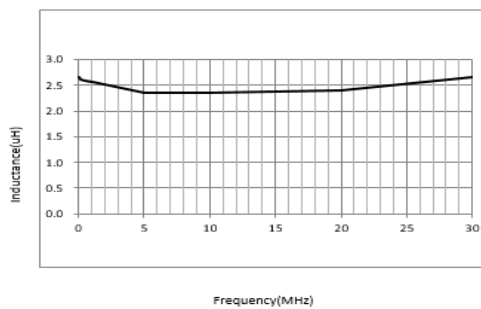
Inductance vs DC current



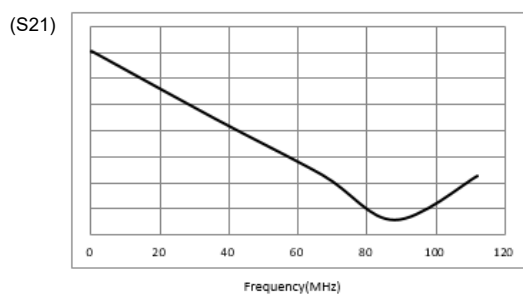
DC current vs Temperature



Inductance vs Frequency



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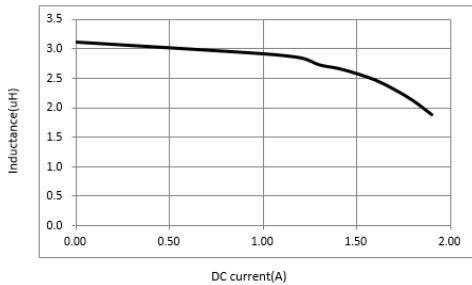
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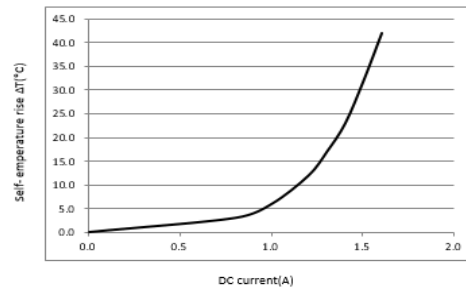
SPE3015

*SPE3015-3R3N

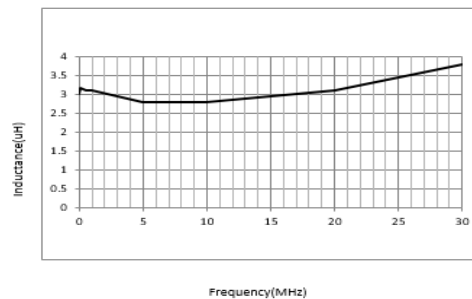
Inductance vs DC current



DC current vs Temperature

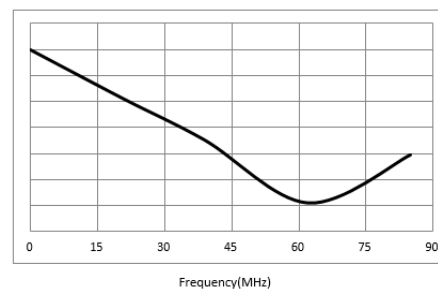


Inductance vs Frequency



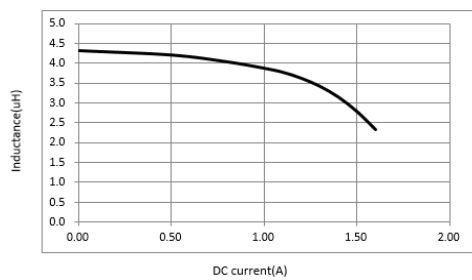
SRF(Self Resonance Frequency)

(S21)

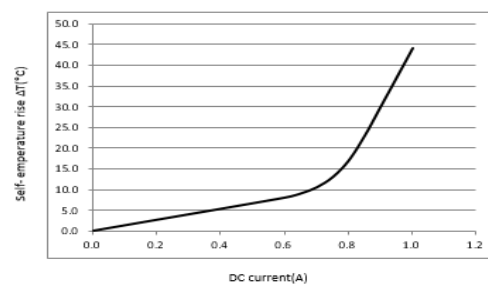


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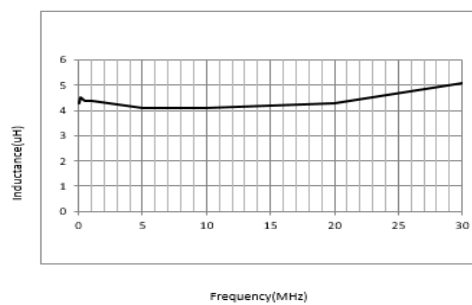
Inductance vs DC current



DC current vs Temperature

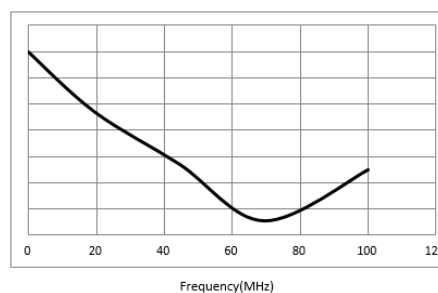


Inductance vs Frequency



SRF(Self Resonance Frequency)

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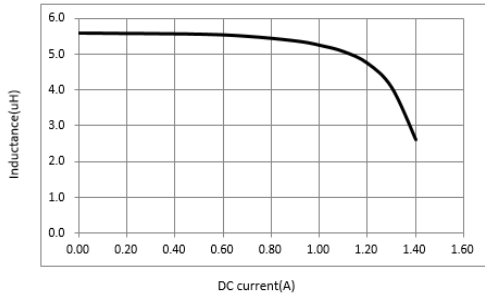
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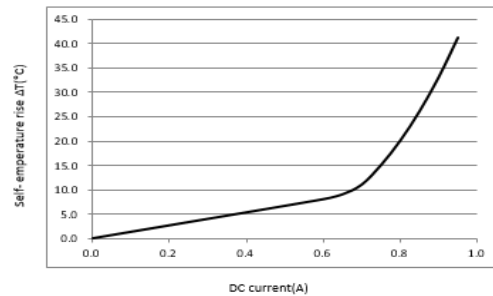
SPE3015

*SPE3015-5R6M

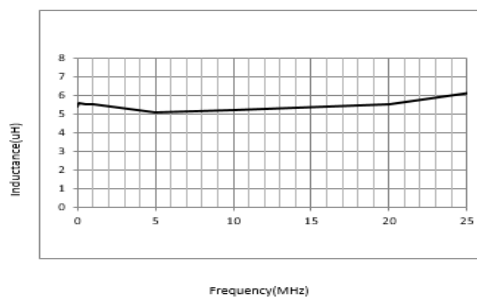
Inductance vs DC current



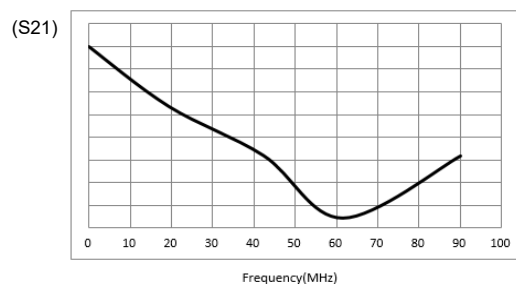
DC current vs Temperature



Inductance vs Frequency

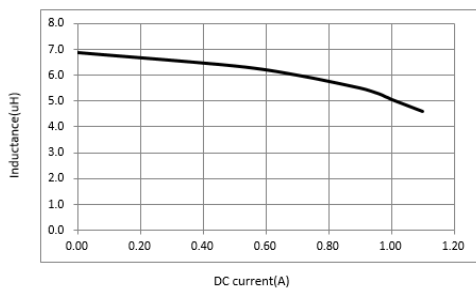


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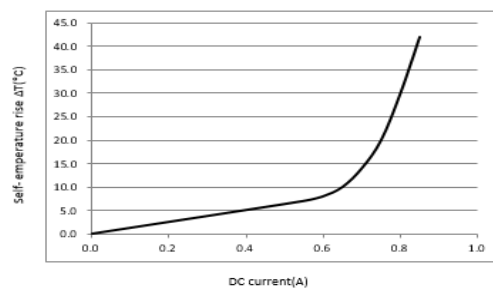


*SPE3015-6R8M

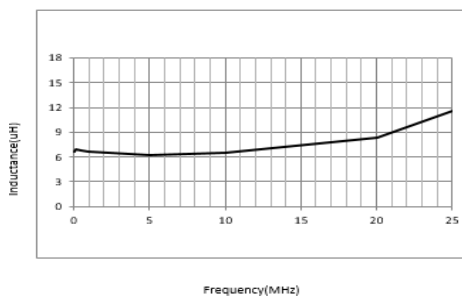
Inductance vs DC current



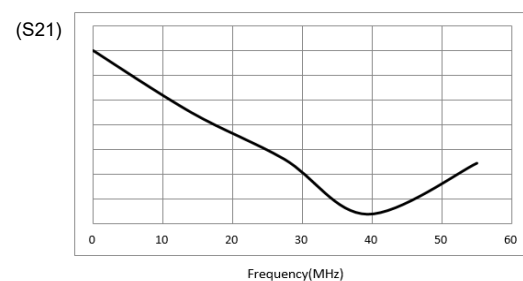
DC current vs Temperature



Inductance vs Frequency



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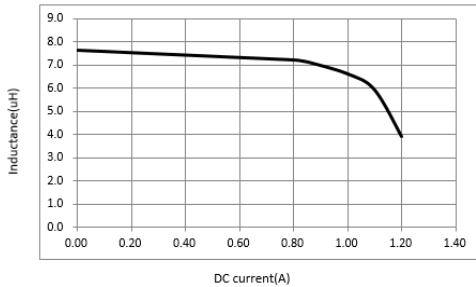
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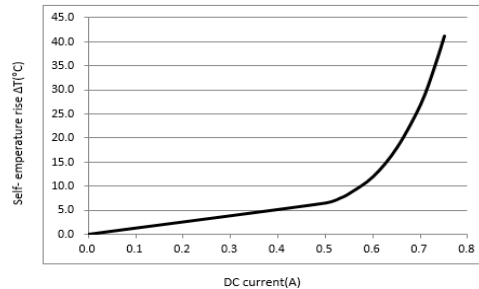
SPE3015

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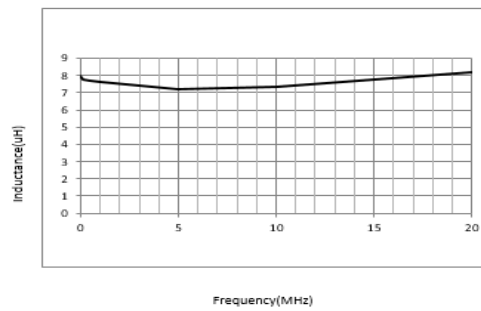
Inductance vs DC current



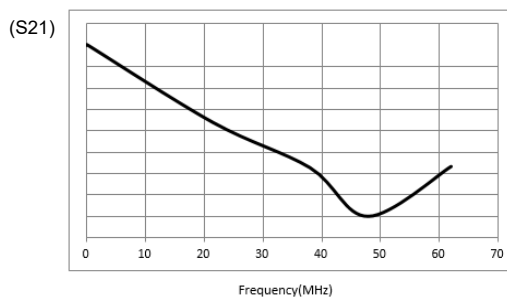
DC current vs Temperature



Inductance vs Frequency

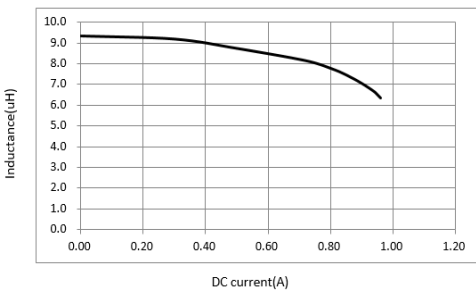


SRF(Self Resonance Frequency)

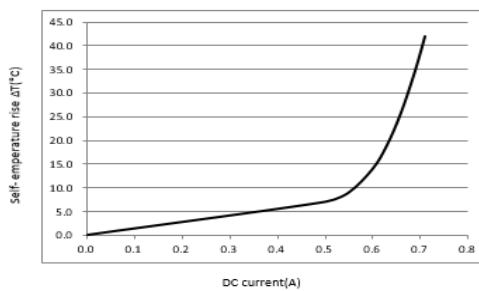


*SPE3015-100M

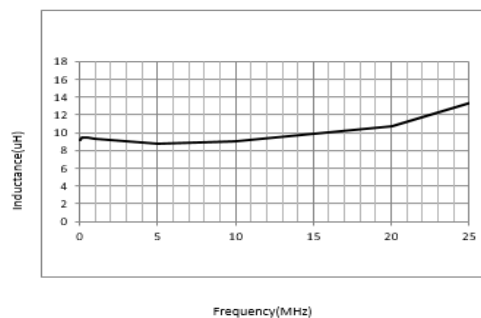
Inductance vs DC current



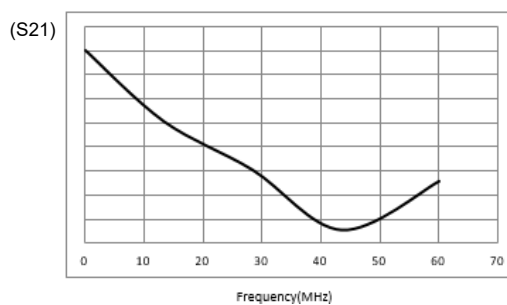
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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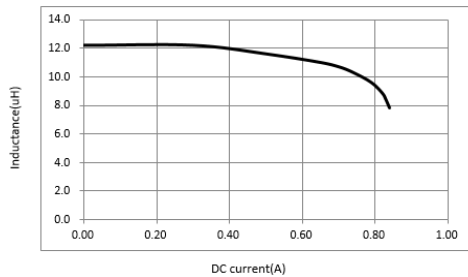
SMD Power Inductors

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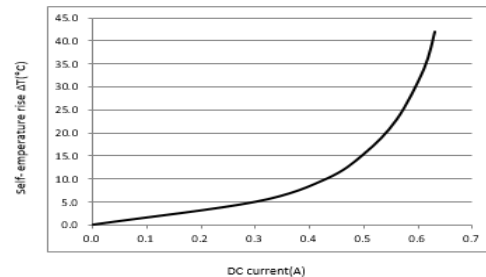
SPE3015

*SPE3015-120M

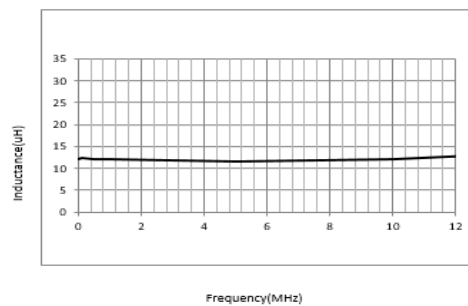
Inductance vs DC current



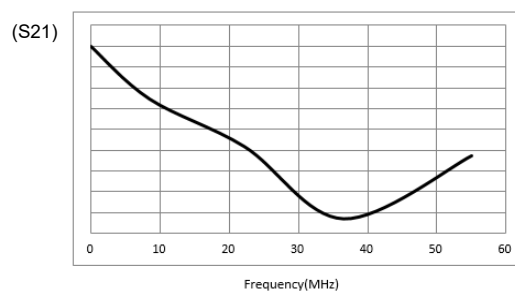
DC current vs Temperature



Inductance vs Frequency

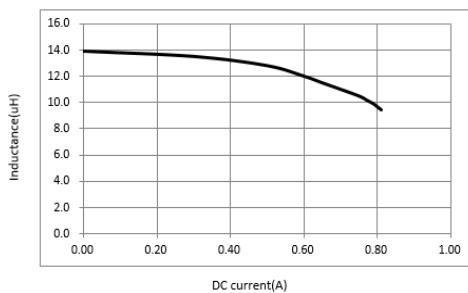


SRF(Self Resonance Frequency)

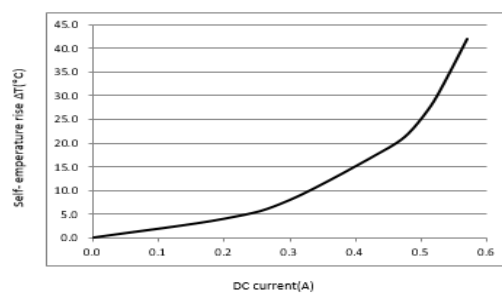


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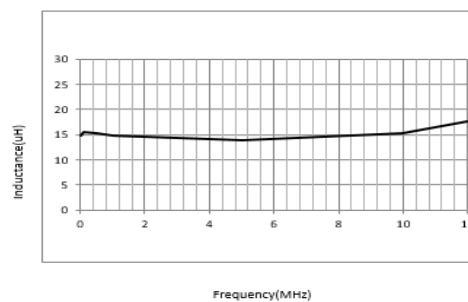
Inductance vs DC current



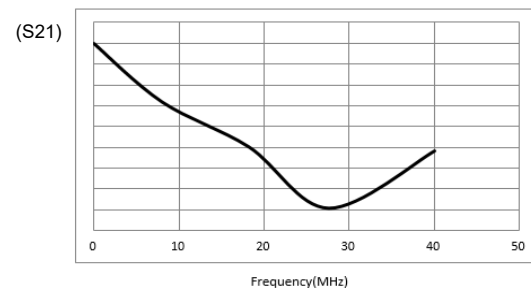
DC current vs Temperature



Inductance vs Frequency



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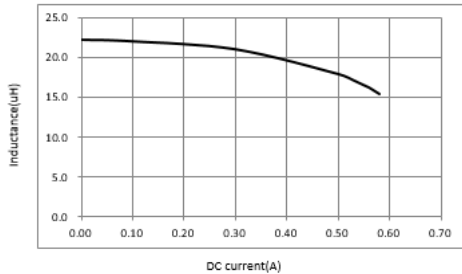
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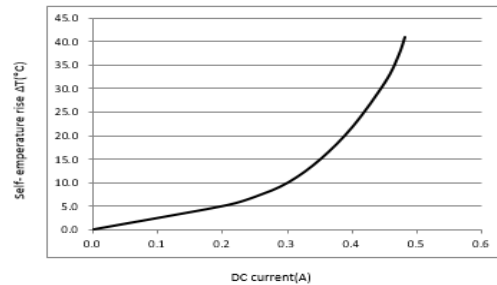
SPE3015

*SPE3015-220M

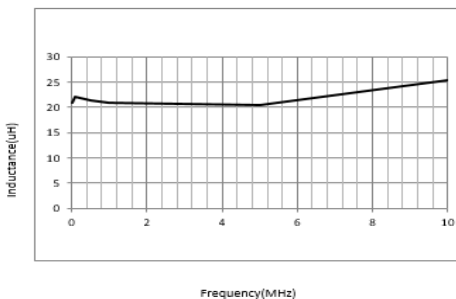
Inductance vs DC current



DC current vs Temperature

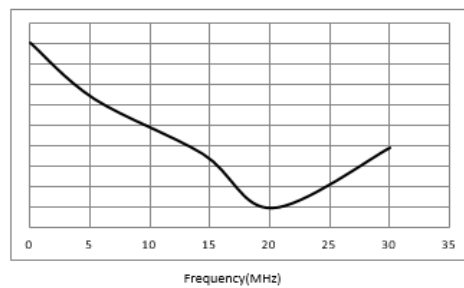


Inductance vs Frequency



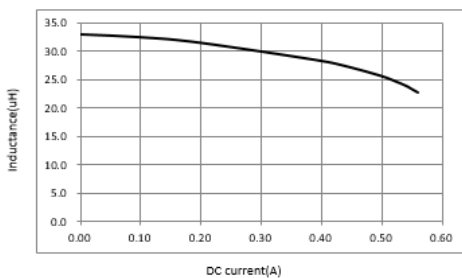
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(S21)

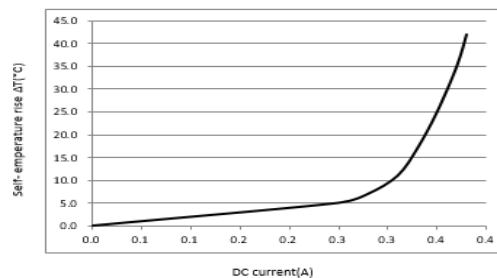


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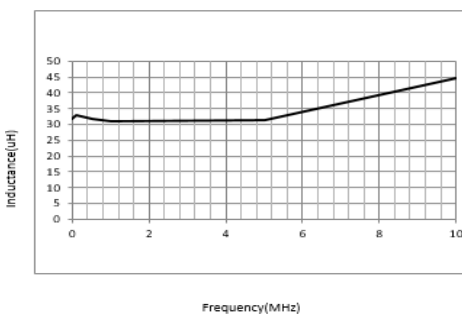
Inductance vs DC current



DC current vs Temperature

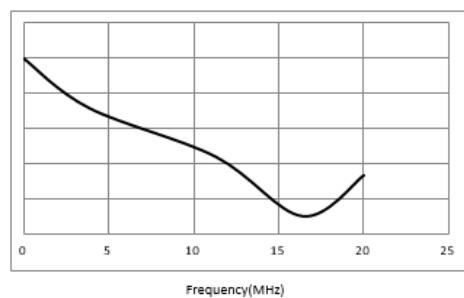


Inductance vs Frequency



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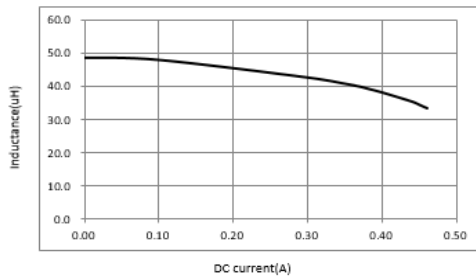
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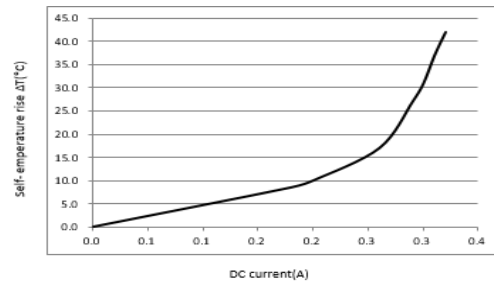
SPE3015

*SPE3015-470M

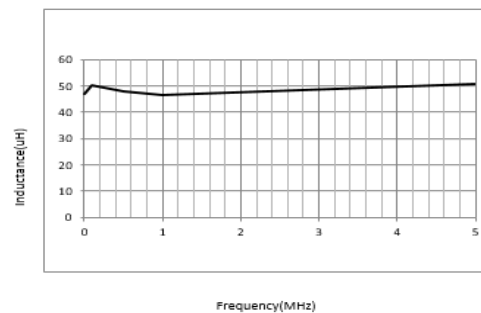
Inductance vs DC current



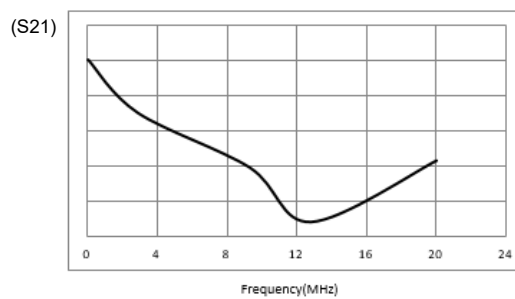
DC current vs Temperature



Inductance vs Frequency



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