

SMD INDUCTOR

Fixed Inductor for Surface Mounting

SPE4030

SMD Magnetic-resin shielded type

UNIT : mm

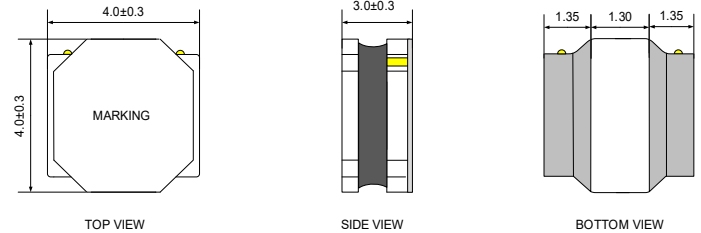
TYPE SPE4030
For Reflow Soldering
Inductance Range: 0.47 ~ 100uH

Features

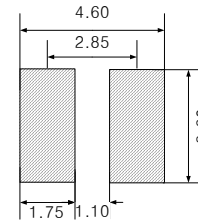
- *Low profile (3.0mm high)
 - *Suitable for reflow soldering
 - *Available on tape and reel for automatic insertion
 - *Qualified to AEC-Q200
- (Operating Temperature: -40°C~+125°C)

Electrical Characteristics

Dimensions



Recommended PCB Pattern



Ordering code	Inductance range (μH)	DCR(mΩ±30%)	Isat*1 (A,MAX)	Irms*2 (A,MAX)	Marking
SPE4030-R47N	0.47±30%	12	7.8	5.2	R47
SPE4030-R91N	0.91±30%	18	6.3	4.0	R91
SPE4030-1R2N	1.2±30%	21	5.8	3.5	1R2
SPE4030-1R5N	1.5±30%	24	5.0	3.2	1R5
SPE4030-2R2N	2.2±30%	31	4.3	2.8	2R2
SPE4030-3R0N	3.0±30%	39	3.5	2.4	3R0
SPE4030-3R6N	3.6±30%	49	3.3	2.2	3R6
SPE4030-4R7M	4.7±20%	67	2.9	2.0	4R7
SPE4030-5R6M	5.6±20%	73	2.7	1.9	5R6
SPE4030-6R8M	6.8±20%	92	2.4	1.8	6R8
SPE4030-7R5M	7.5±20%	99	2.2	1.6	7R5
SPE4030-8R2M	8.2±20%	128	2.1	1.5	8R2
SPE4030-100M	10±20%	138	1.95	1.4	100
SPE4030-120M	12±20%	170	1.7	1.3	120
SPE4030-150M	15±20%	212	1.5	1.0	150
SPE4030-180M	18±20%	236	1.4	0.95	180
SPE4030-220M	22±20%	355	1.2	0.90	220
SPE4030-330M	33±20%	440	1.0	0.80	330
SPE4030-470M	47±20%	705	0.85	0.70	470
SPE4030-560M	56±20%	810	0.80	0.60	560
SPE4030-680M	68±20%	920	0.72	0.50	680
SPE4030-820M	82±20%	1.25Ω	0.66	0.46	820
SPE4030-101M	100±20%	1.37Ω	0.60	0.45	101

*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

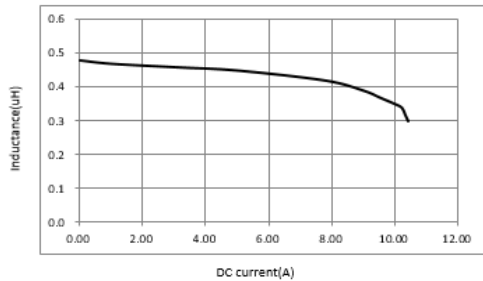
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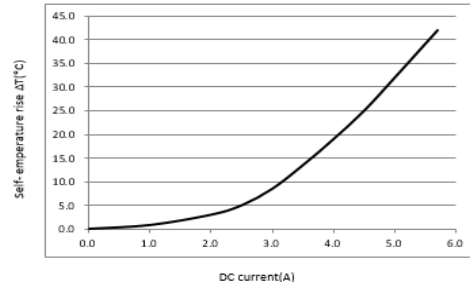
SPE4030

*SPE4030-R47N

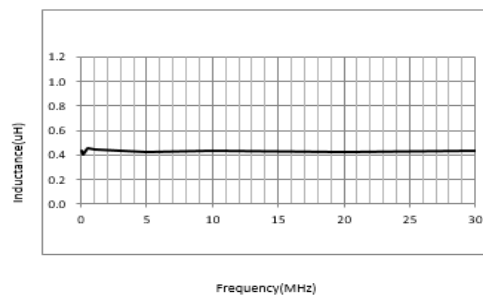
Inductance vs DC current



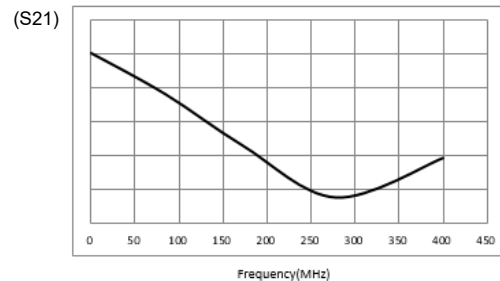
DC current vs Temperature



Inductance vs Frequency

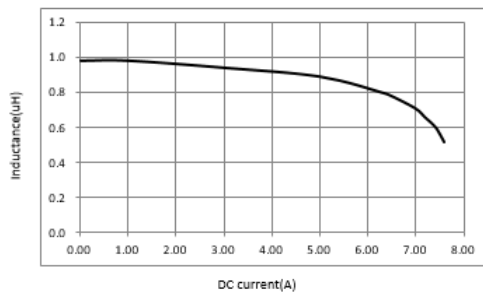


SRF(Self Resonance Frequency)

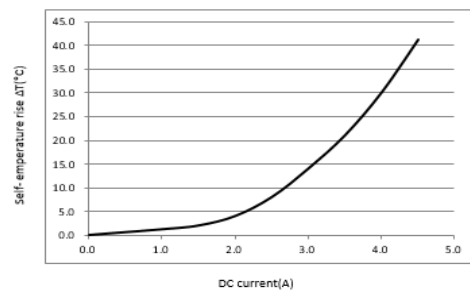


*SPE4030-R91N

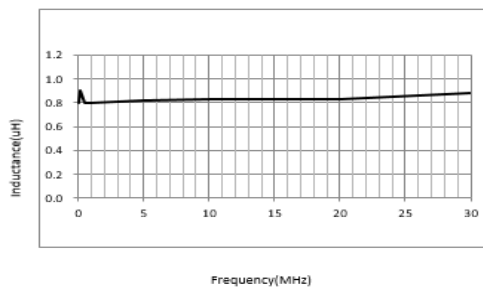
Inductance vs DC current



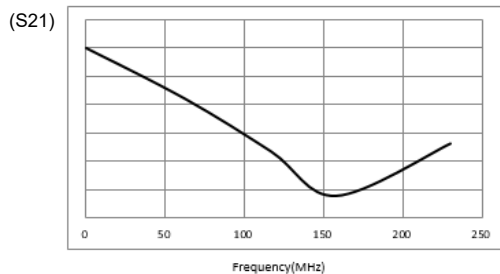
DC current vs Temperature



Inductance vs Frequency



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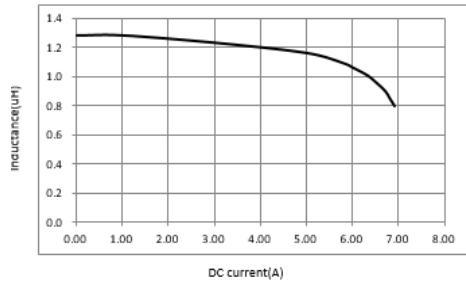
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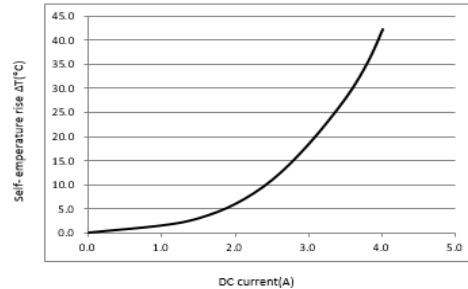
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*SPE4030-1R2N

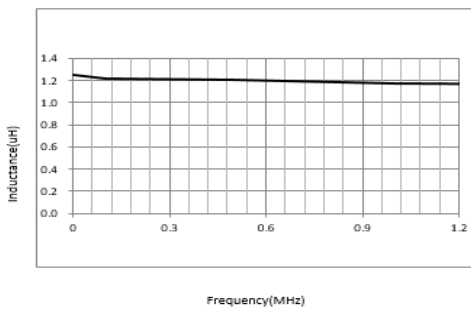
Inductance vs DC current



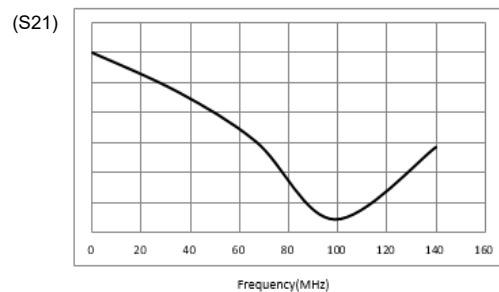
DC current vs Temperature



Inductance vs Frequency

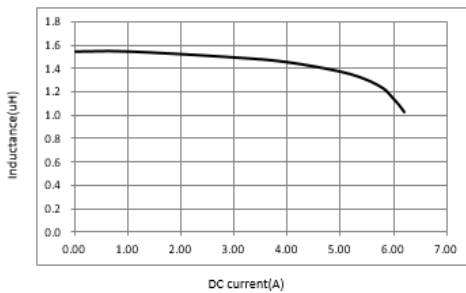


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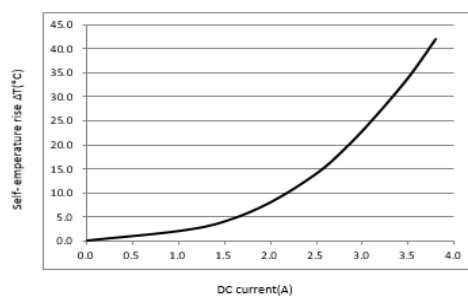


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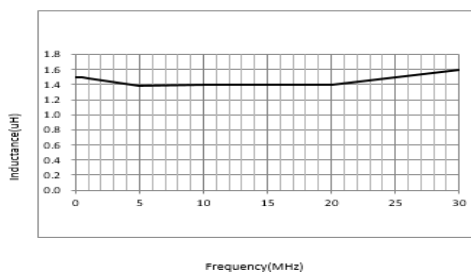
Inductance vs DC current



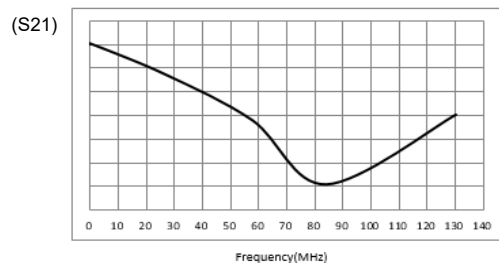
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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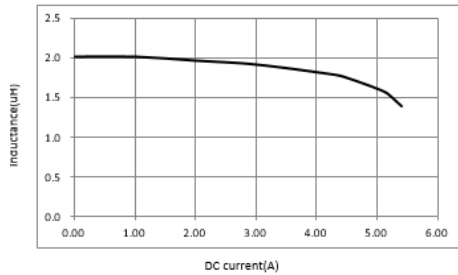
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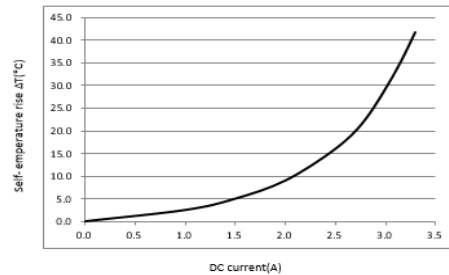
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*SPE4030-2R2N

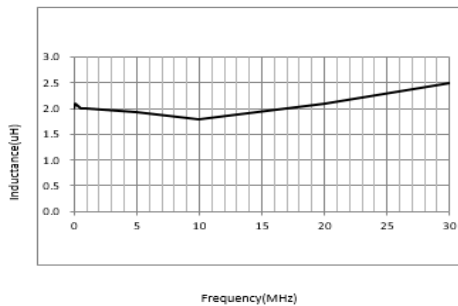
Inductance vs DC current



DC current vs Temperature

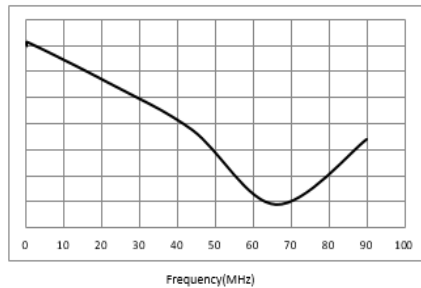


Inductance vs Frequency



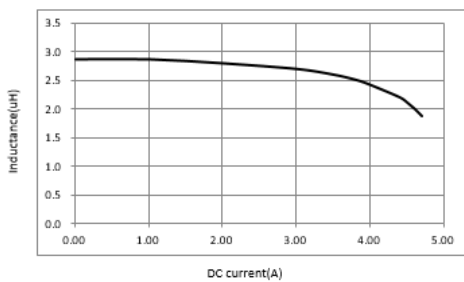
SRF(Self Resonance Frequency)

(S21)

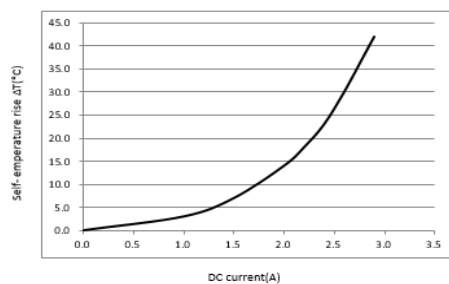


*SPE4030-3R0N

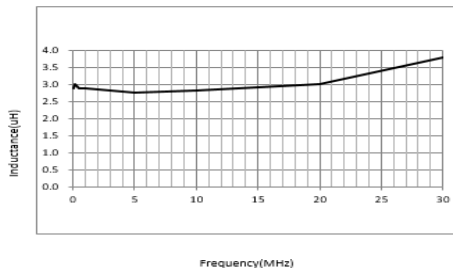
Inductance vs DC current



DC current vs Temperature

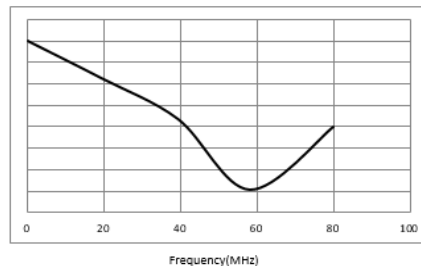


Inductance vs Frequency



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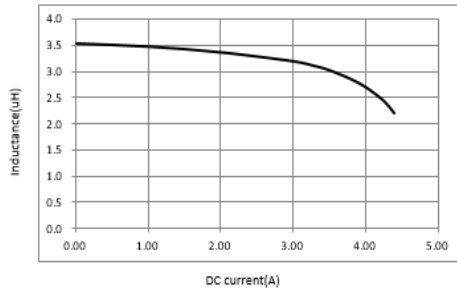
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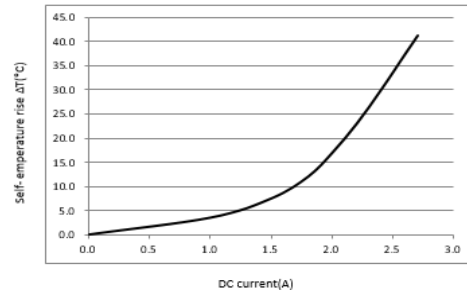
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*SPE4030-3R6N

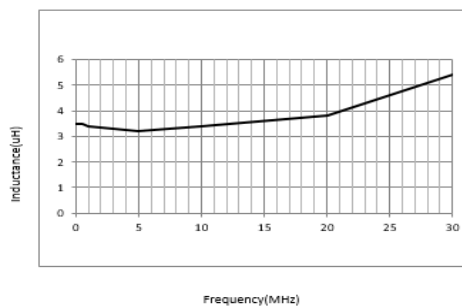
Inductance vs DC current



DC current vs Temperature

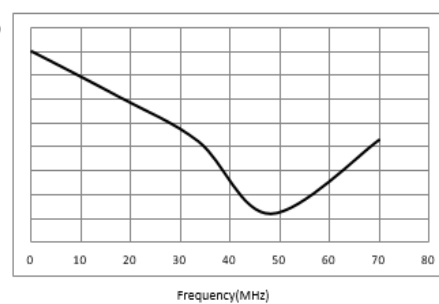


Inductance vs Frequency



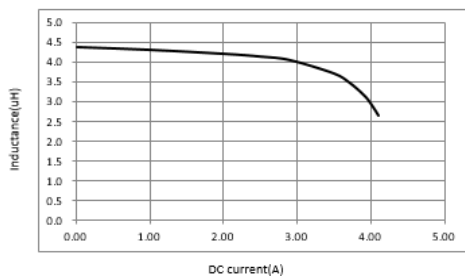
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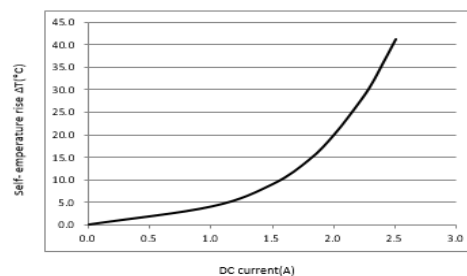


*SPE4030-4R7M

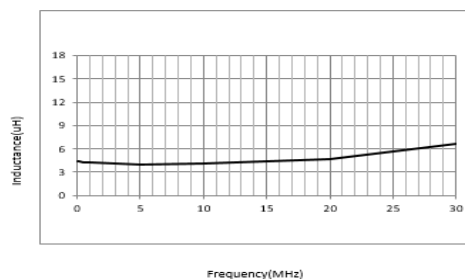
Inductance vs DC current



DC current vs Temperature

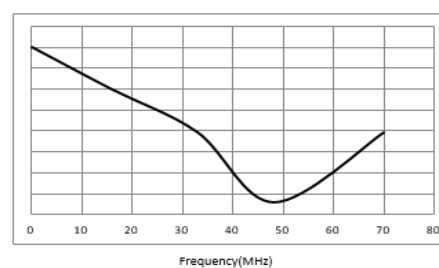


Inductance vs Frequency



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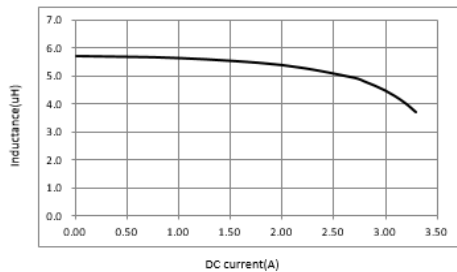
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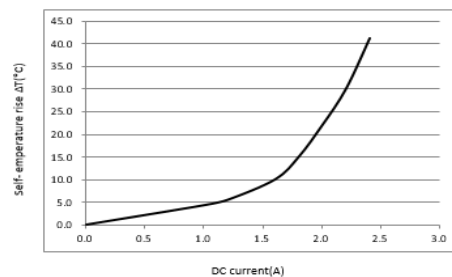
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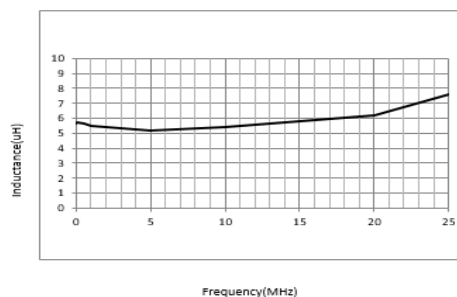
Inductance vs DC current



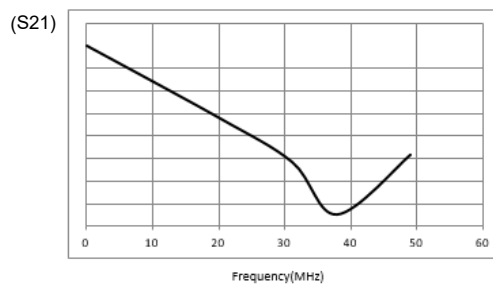
DC current vs Temperature



Inductance vs Frequency

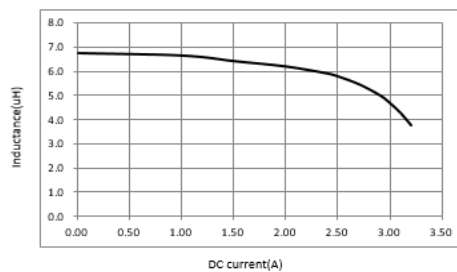


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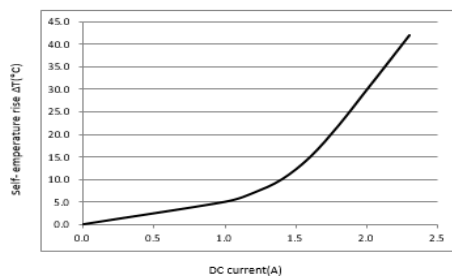


*SPE4030-6R8M

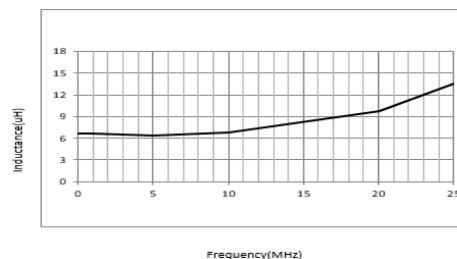
Inductance vs DC current



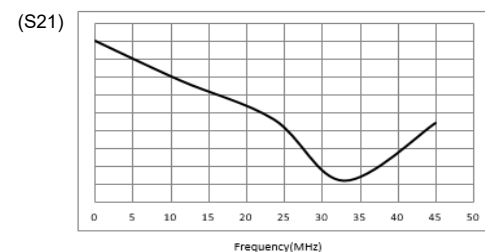
DC current vs Temperature



Inductance vs Frequency



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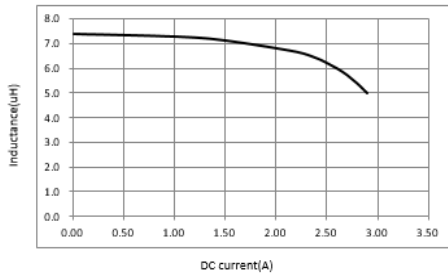
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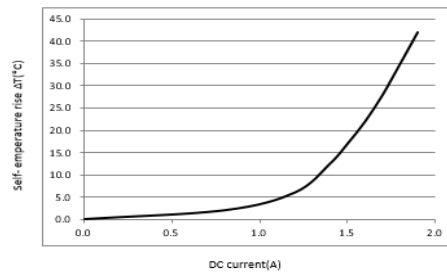
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*SPE4030-7R5M

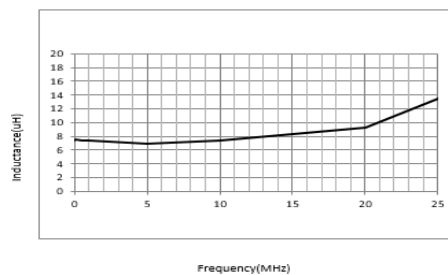
Inductance vs DC current



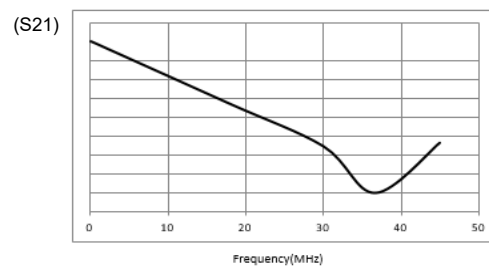
DC current vs Temperature



Inductance vs Frequency

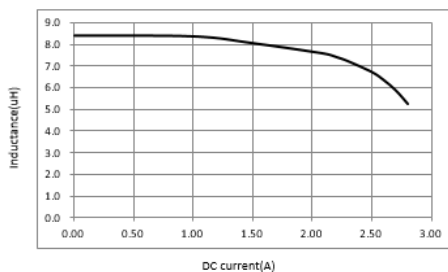


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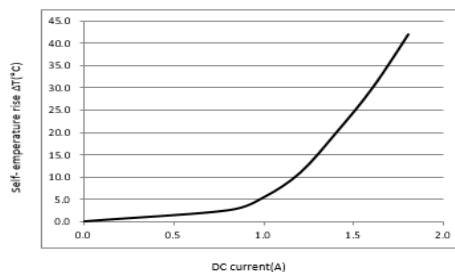


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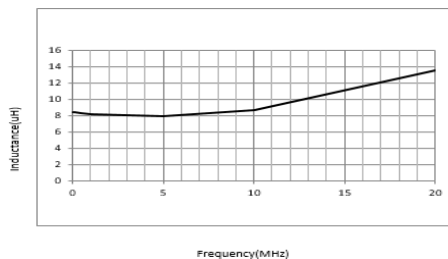
Inductance vs DC current



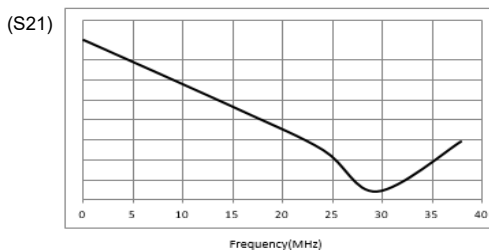
DC current vs Temperature



Inductance vs Frequency



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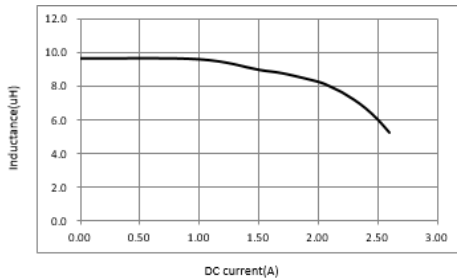
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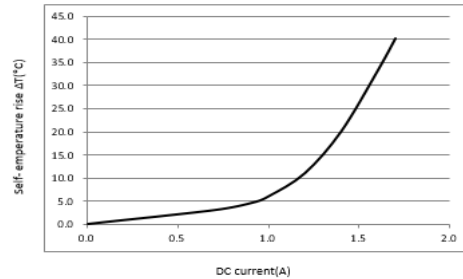
SPE4030

*SPE4030-100M

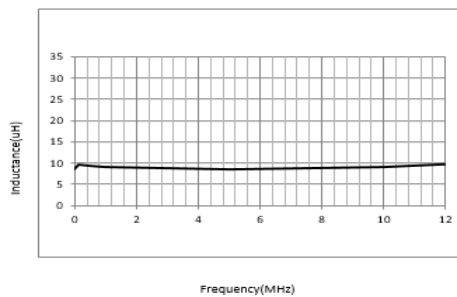
Inductance vs DC current



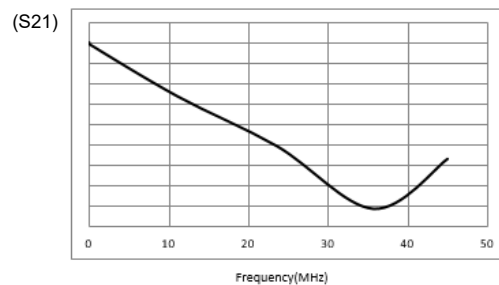
DC current vs Temperature



Inductance vs Frequency

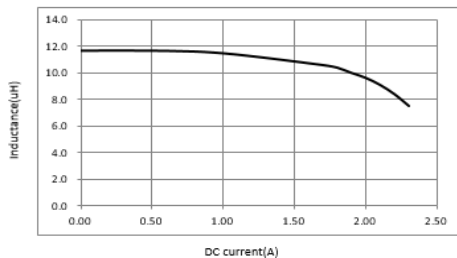


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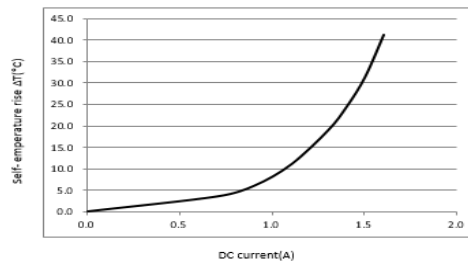


*SPE4030-120M

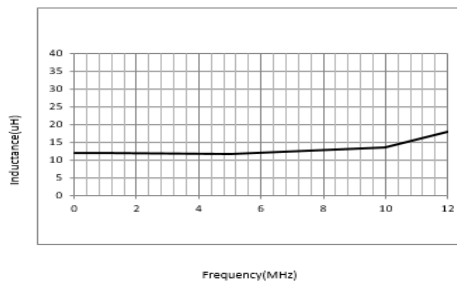
Inductance vs DC current



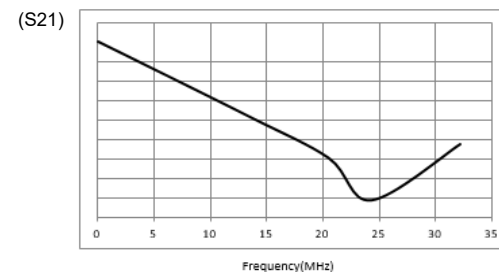
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Inductance vs Frequency



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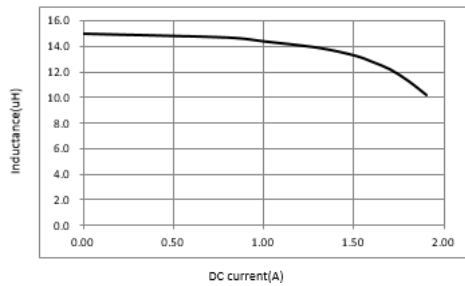
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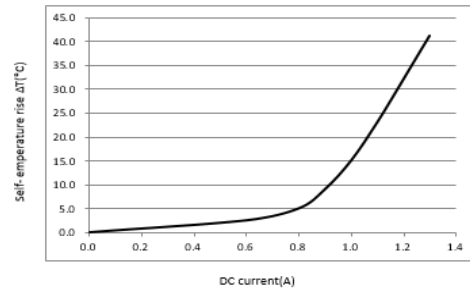
SPE4030

*SPE4030-150M

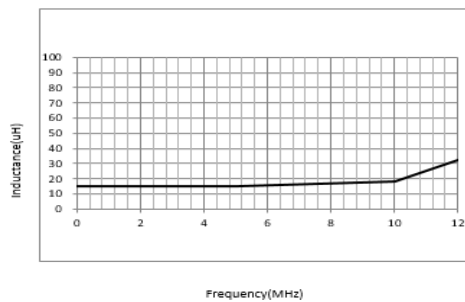
Inductance vs DC current



DC current vs Temperature

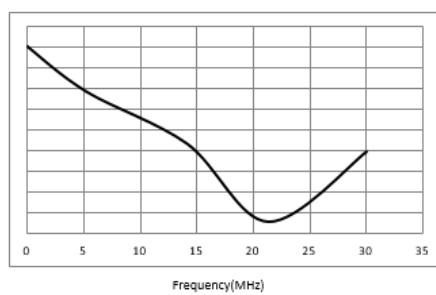


Inductance vs Frequency



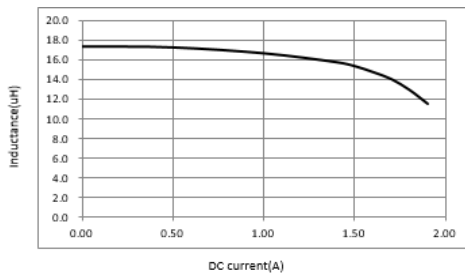
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(S21)

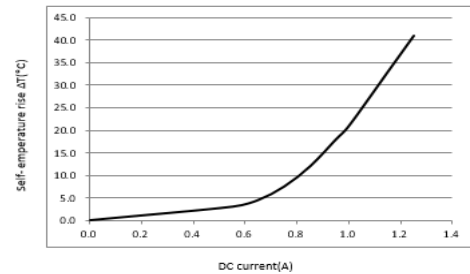


*SPE4030-180M

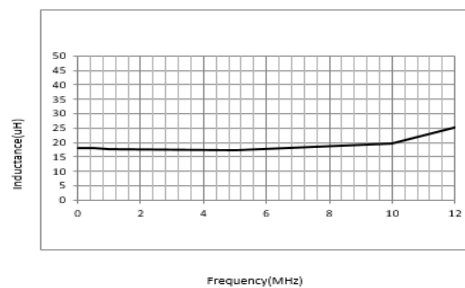
Inductance vs DC current



DC current vs Temperature

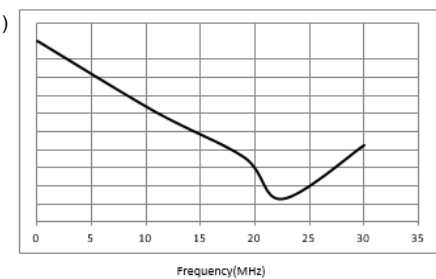


Inductance vs Frequency



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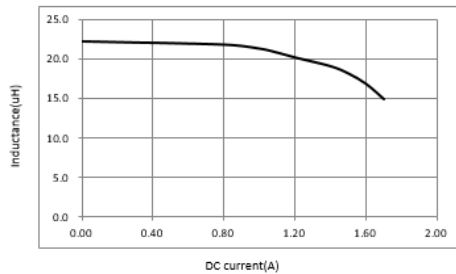
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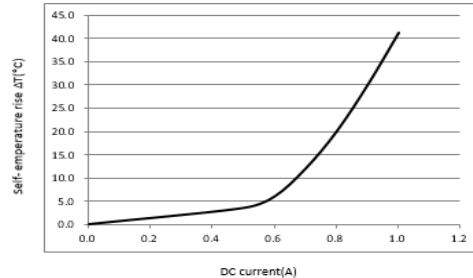
SPE4030

*SPE4030-220M

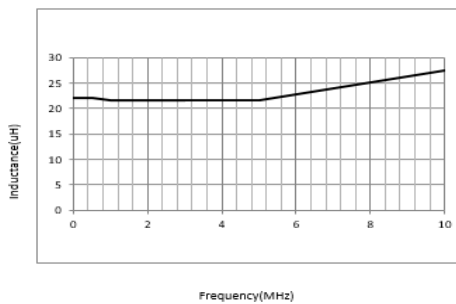
Inductance vs DC current



DC current vs Temperature

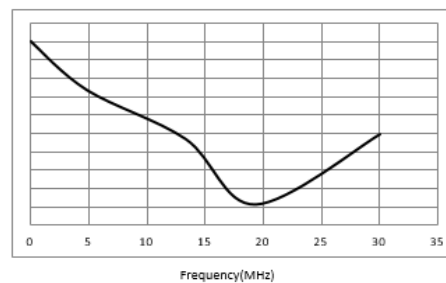


Inductance vs Frequency



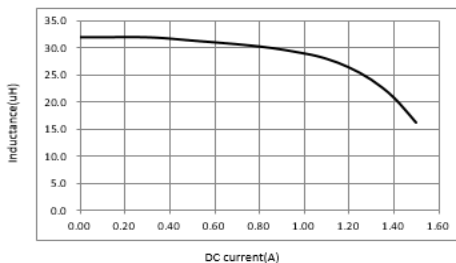
SRF(Self Resonance Frequency)

(S21)

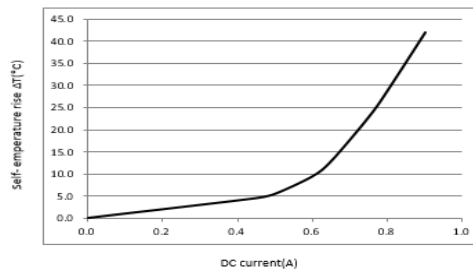


*SPE4030-330M

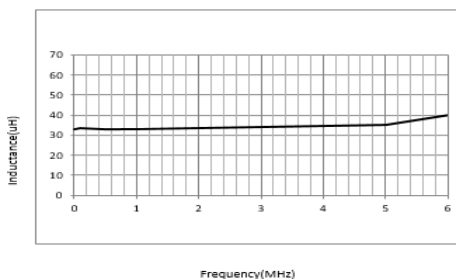
Inductance vs DC current



DC current vs Temperature

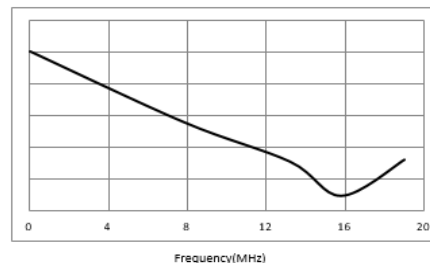


Inductance vs Frequency



SRF(Self Resonance Frequency)

(S21)



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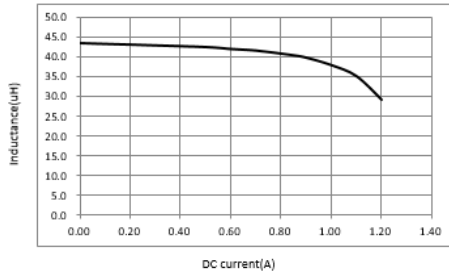
SMD Power Inductors

Fixed Inductor for Surface Mounting

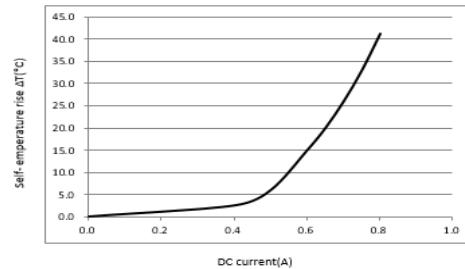
SPE4030

*SPE4030-470M

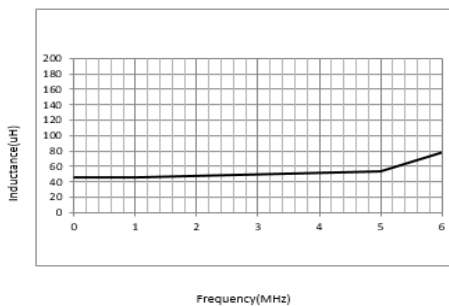
Inductance vs DC current



DC current vs Temperature

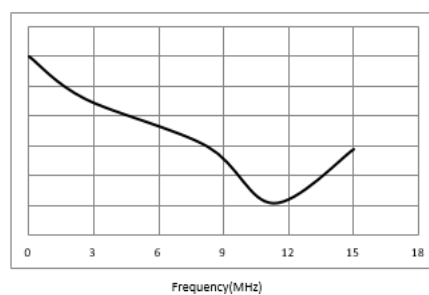


Inductance vs Frequency



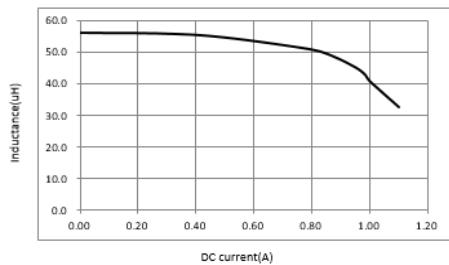
SRF(Self Resonance Frequency)

(S21)

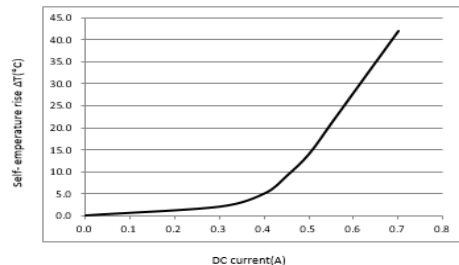


*SPE4030-560M

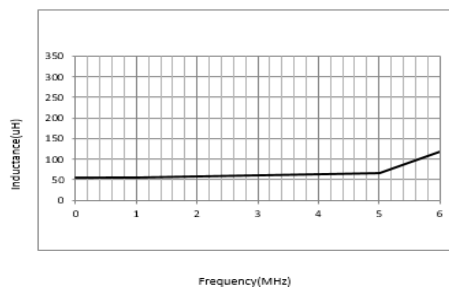
Inductance vs DC current



DC current vs Temperature

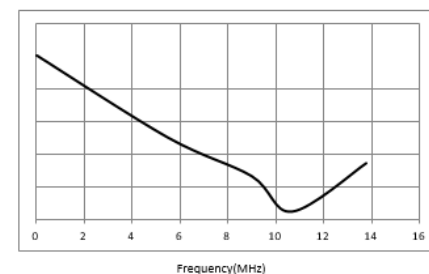


Inductance vs Frequency



SRF(Self Resonance Frequency)

(S21)



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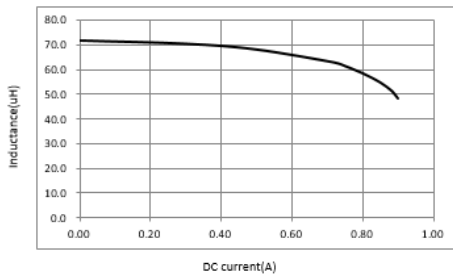
SMD Power Inductors

Fixed Inductor for Surface Mounting

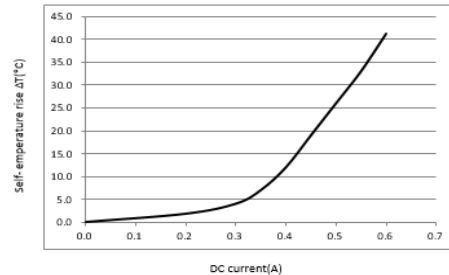
SPE4030

*SPE4030-680M

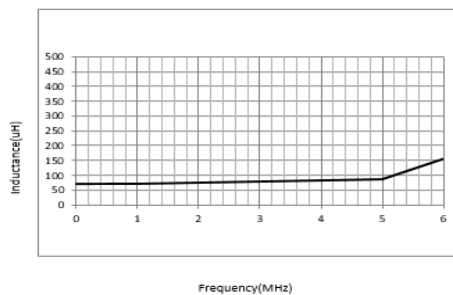
Inductance vs DC current



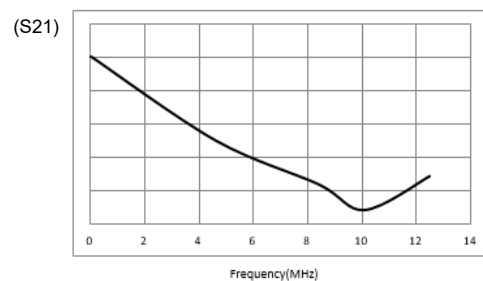
DC current vs Temperature



Inductance vs Frequency

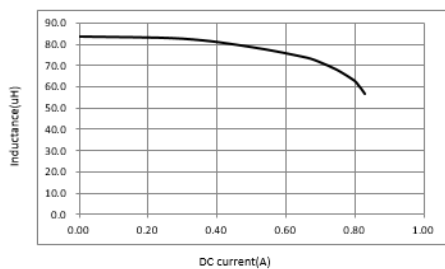


SRF(Self Resonance Frequency)

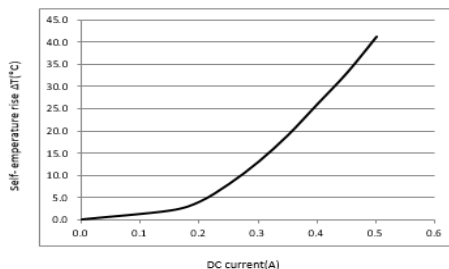


*SPE4030-820M

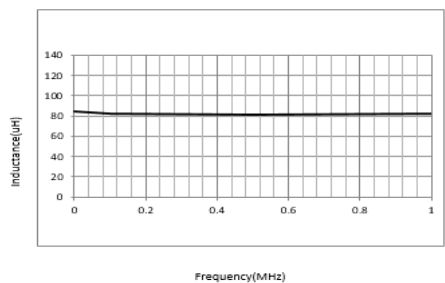
Inductance vs DC current



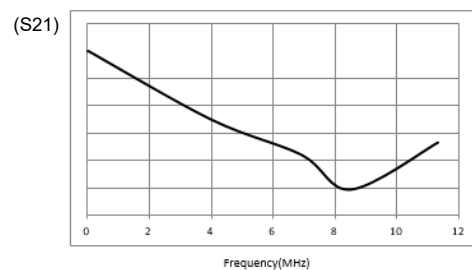
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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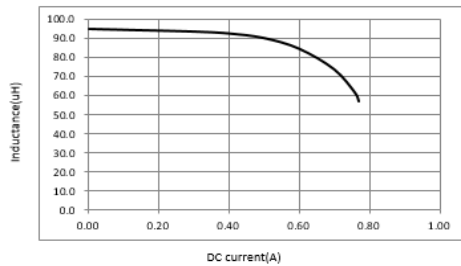
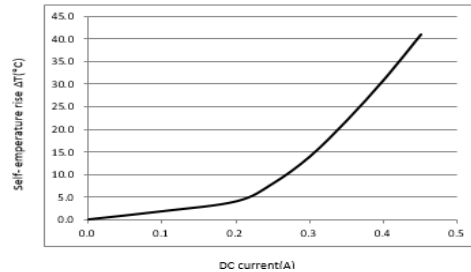
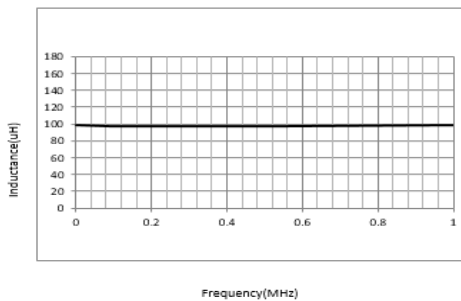
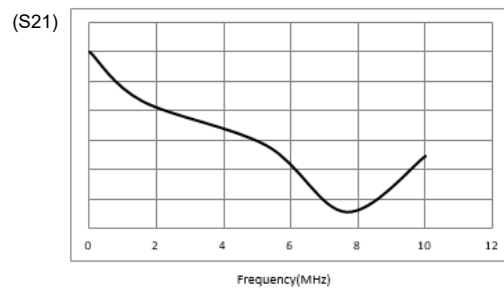
Revised 10/18/21

SMD Power Inductors

Fixed Inductor for Surface Mounting

SPE4030

*SPE4030-101M

Inductance vs DC current**DC current vs Temperature****Inductance vs Frequency****SRF(Self Resonance Frequency)**

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Revised 10/18/21