

SMD Power Inductors

Fixed Inductor for Surface Mounting

SPL10080

(Mn Type)

Construction

- Ferrite core
- Shielded construction



Features

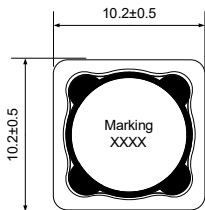
- Operating temperature -40 ~ +125°C
- Qualified to AEC-Q200
- Solder reflow temperature 260°C peak
- Low buzz noise
- High saturation current
- Suitable for lead-free reflow soldering



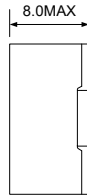
Applications

- Automotive / PDA / Notebook systems
- DC/DC converters
- Low profile, high current power supplies

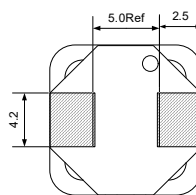
Dimensions(Unit:mm)



TOP VIEW

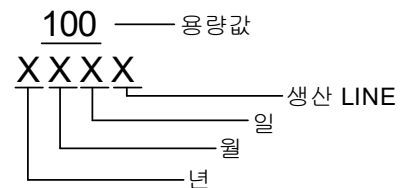
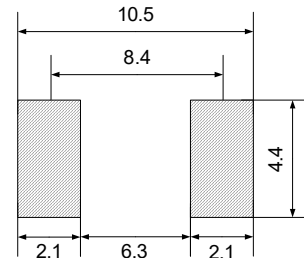


SIDE VIEW



BOTTOM VIEW

Recommended Land Pattern(Unit:mm)



Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ,±30%)	Isat*1(A,TYP)	Isat*1(A,MAX)	Irms*2(A,MAX)	Marking
SPL10080-3R0N-M1	3.0±30%	22.3	22.0	20.0	6.30	3R0 XXXX
SPL10080-3R6N-M1	3.6±30%	24.3	20.0	19.0	5.80	3R6 XXXX
SPL10080-4R7M-M1	4.7±20%	28.0	18.2	17.6	5.50	4R7 XXXX
SPL10080-5R6M-M1	5.6±20%	30.2	16.6	16.2	5.20	5R6 XXXX

※Test Equipment

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

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : Agilent 4284A + Agilent 42841A

*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

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Revised 10/18/21

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SPL10080-6R8M-M1	6.8±20%	33.3	15.0	14.4	5.00	6R8 XXXX
SPL10080-8R2M-M1	8.2±20%	36.0	13.8	13.4	4.80	8R2 XXXX
SPL10080-100M-M1	10±20%	38.7	12.4	12.0	4.60	100 XXXX
SPL10080-150M-M1	15±20%	48.0	10.2	9.60	4.00	150 XXXX
SPL10080-220M-M	22±20%	58.0	8.60	8.00	3.80	220 XXXX
SPL10080-330M-M	33±20%	75.0	7.00	6.30	3.00	330 XXXX
SPL10080-470M-M	47±20%	103	5.90	5.50	2.60	470 XXXX
SPL10080-560M-M	56±20%	129	5.50	5.10	2.35	560 XXXX
SPL10080-680M-M	68±20%	145	5.10	4.70	2.20	680 XXXX
SPL10080-820M-M	82±20%	185	4.50	4.20	2.10	820 XXXX
SPL10080-101M-M	100±20%	200	4.00	3.60	1.95	101 XXXX
SPL10080-151M-M	150±20%	310	3.30	3.00	1.46	151 XXXX
SPL10080-221M-M	220±20%	440	2.70	2.50	1.15	221 XXXX
SPL10080-331M-M	330±20%	660	2.20	2.00	1.00	331 XXXX
SPL10080-471M-M	470±20%	945	1.90	1.60	0.92	471 XXXX
SPL10080-561M-M	560±20%	1.04	1.70	1.40	0.85	561 XXXX
SPL10080-681M-M	680±20%	1.30	1.50	1.20	0.78	681 XXXX
SPL10080-821M-M	820±20%	1.55	1.30	1.10	0.68	821 XXXX
SPL10080-102M-M	1,000±20%	2.07	1.20	0.95	0.50	102 XXXX

※Test Equipment

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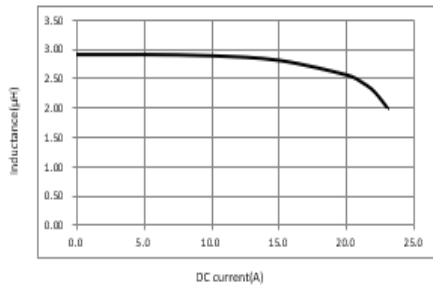
Fixed Inductor for Surface Mounting

SPL10080

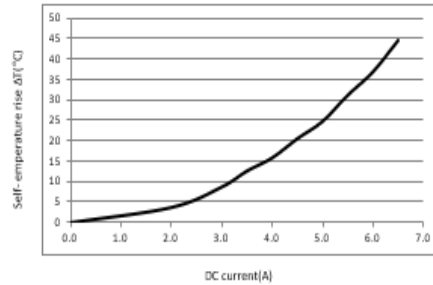
(Mn Type)

*SPL10080-3R0N-M1

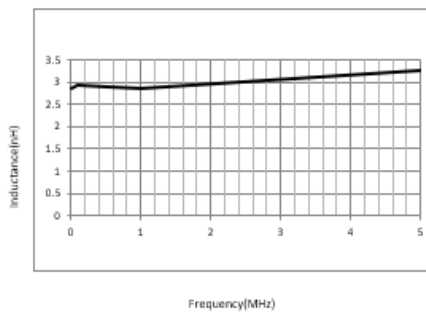
Inductance vs DC current



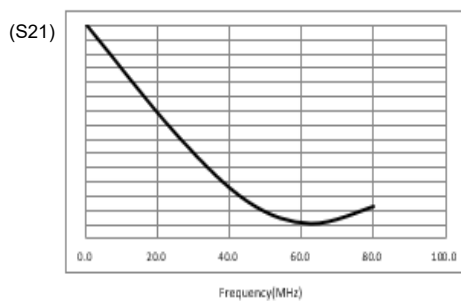
DC current vs Temperature



Inductance vs Frequency

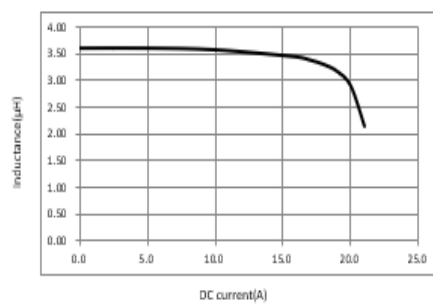


SRF(Self Resonance Frequency)

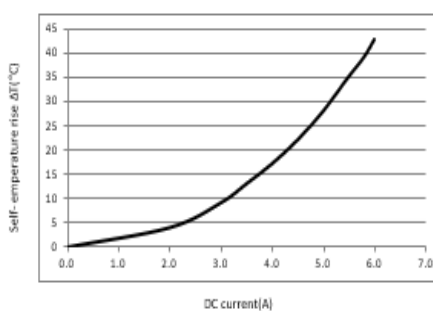


*SPL10080-3R6N-M1

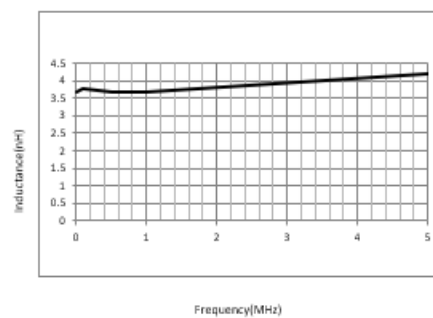
Inductance vs DC current



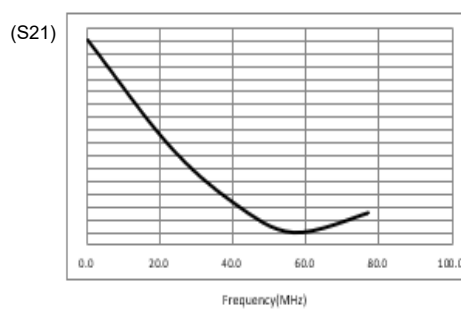
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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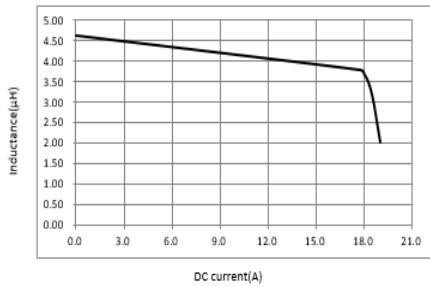
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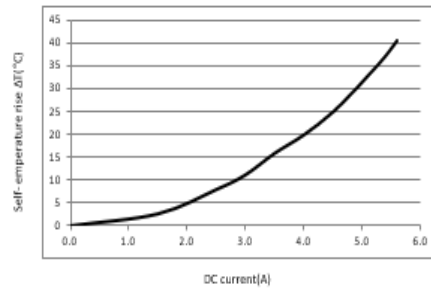
(Mn Type)

*SPL10080-4R7M-M1

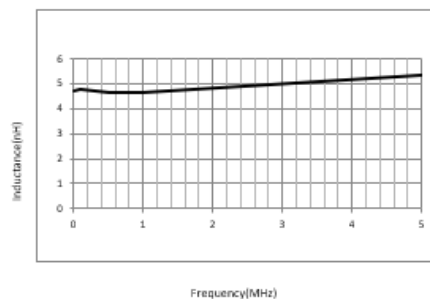
Inductance vs DC current



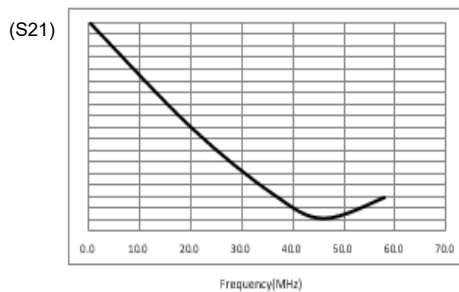
DC current vs Temperature



Inductance vs Frequency

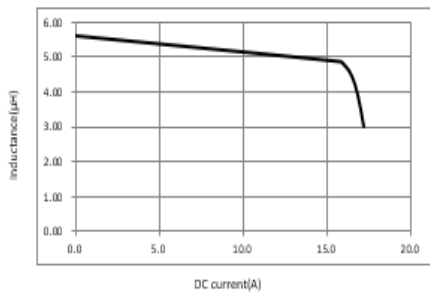


SRF(Self Resonance Frequency)

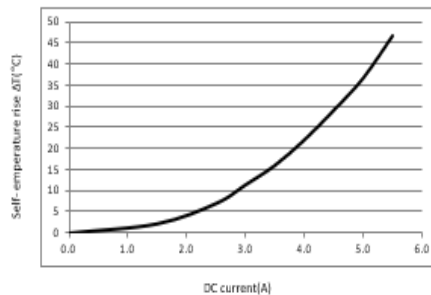


*SPL10080-5R6M-M1

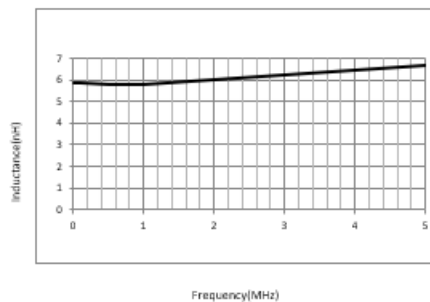
Inductance vs DC current



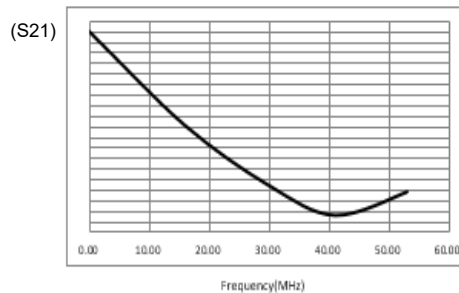
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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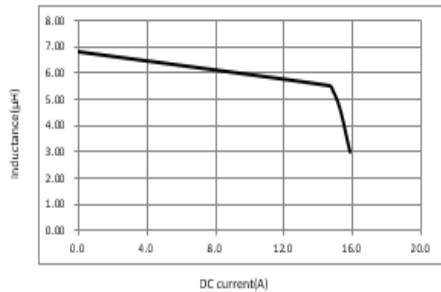
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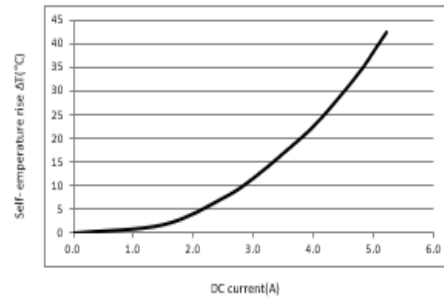
(Mn Type)

*SPL10080-6R8M-M1

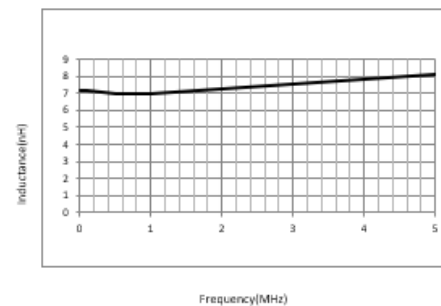
Inductance vs DC current



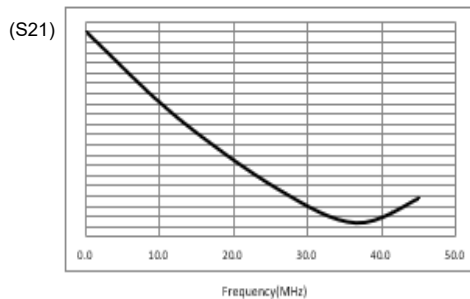
DC current vs Temperature



Inductance vs Frequency

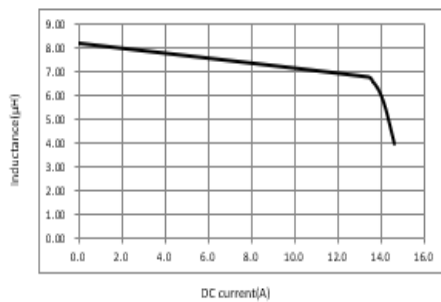


SRF(Self Resonance Frequency)

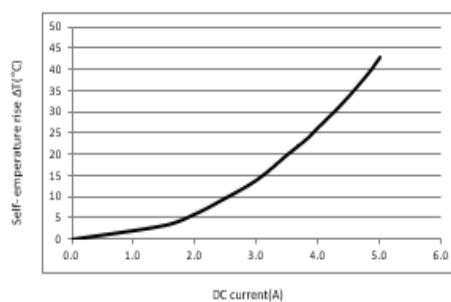


*SPL10080-8R2M-M1

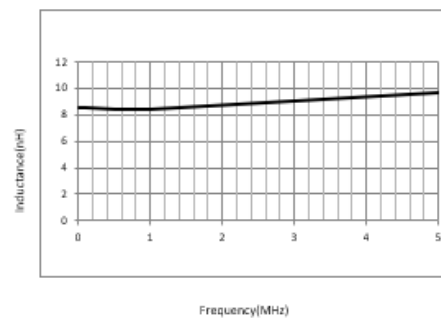
Inductance vs DC current



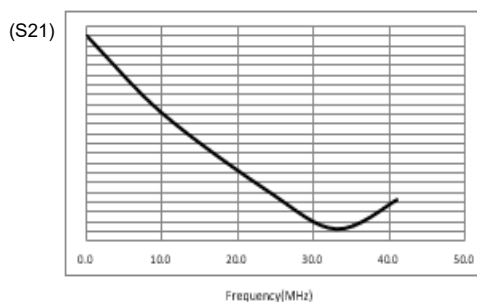
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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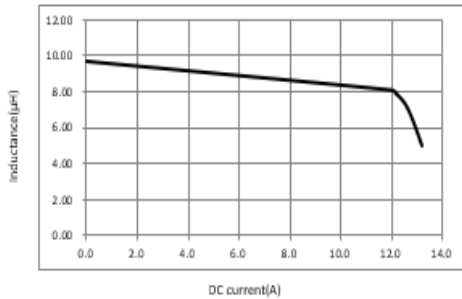
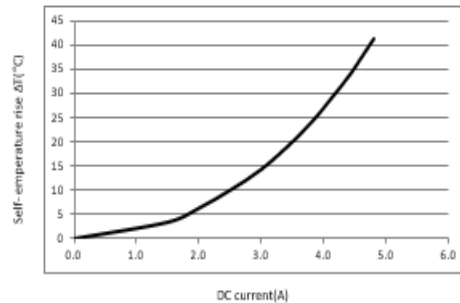
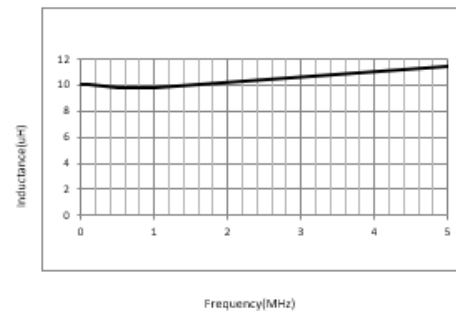
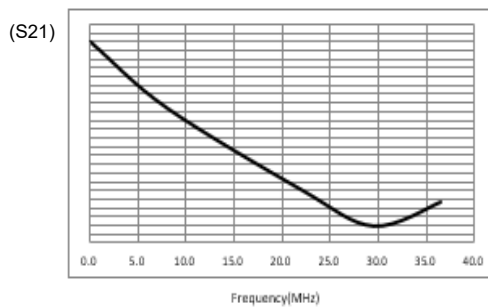
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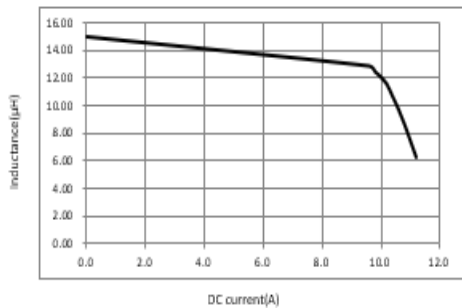
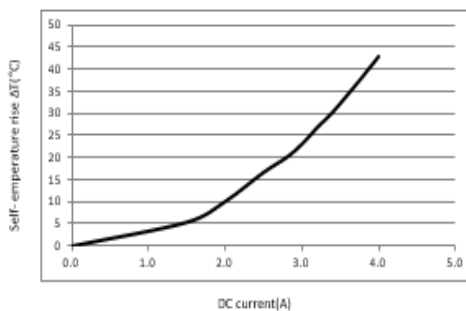
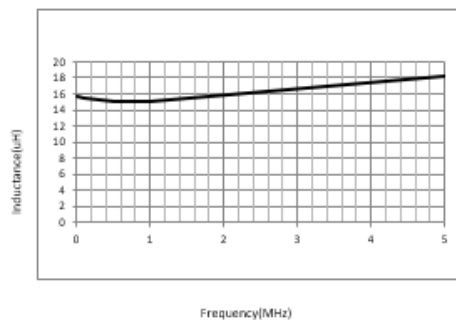
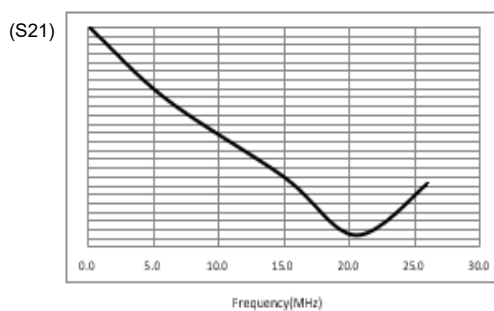
SPL10080

(Mn Type)

*SPL10080-100M-M1

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

*SPL10080-150M-M1

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

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Revised 10/18/21

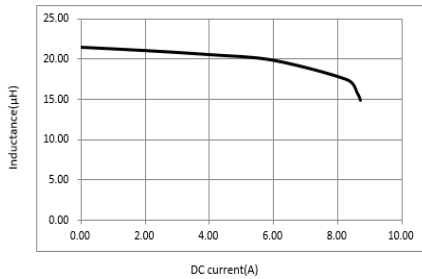
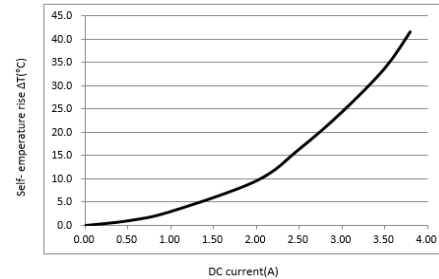
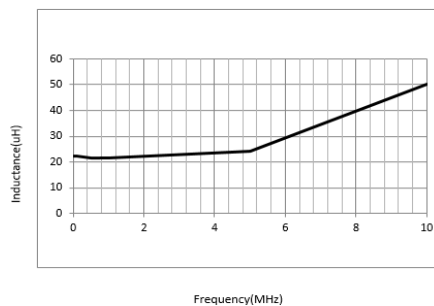
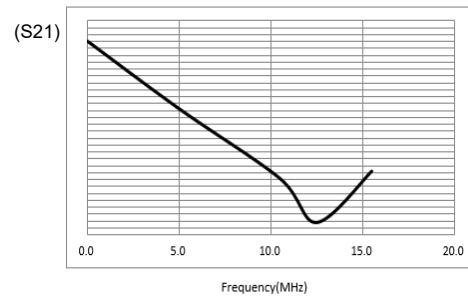
SMD Power Inductors

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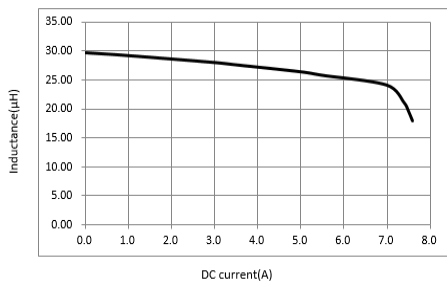
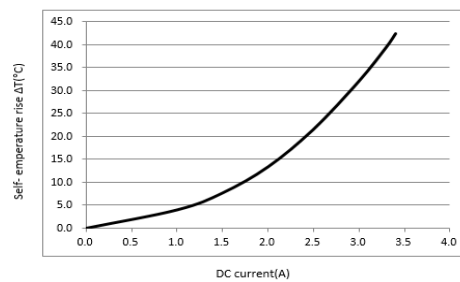
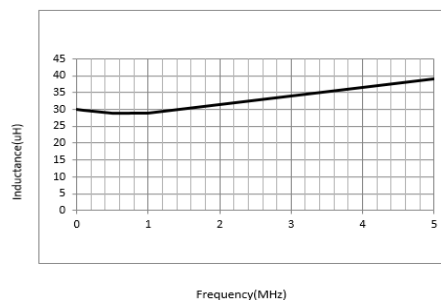
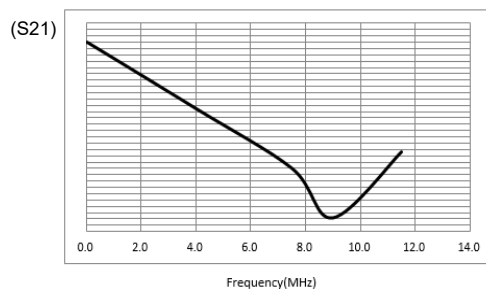
SPL10080

(Mn Type)

*SPL10080-220M-M

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

*SPL10080-330M-M

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

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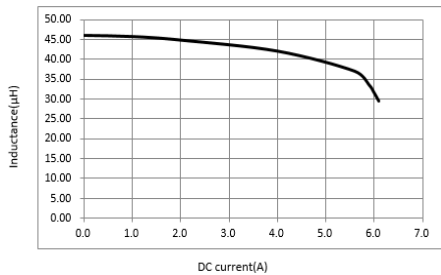
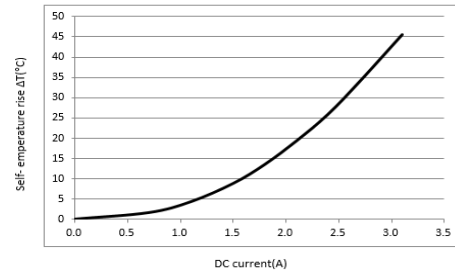
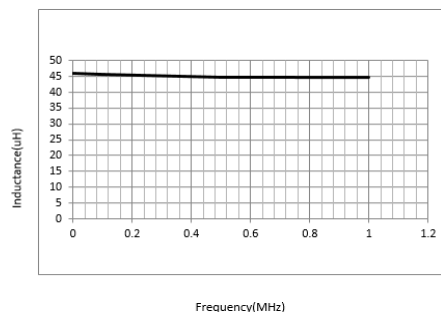
SMD Power Inductors

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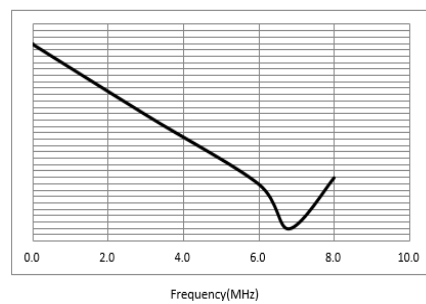
SPL10080

(Mn Type)

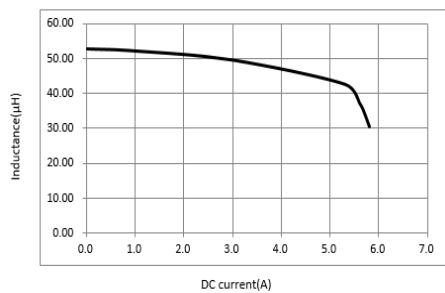
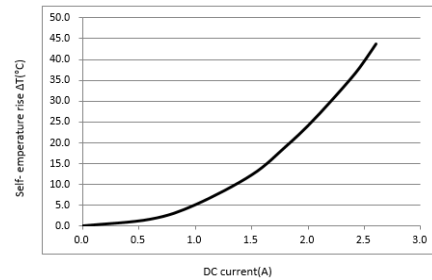
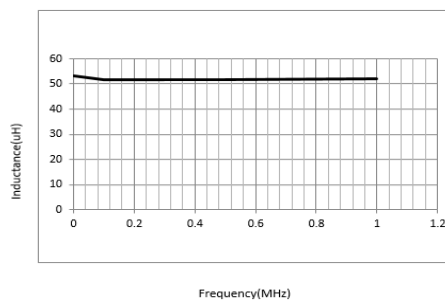
*SPL10080-470M-M

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

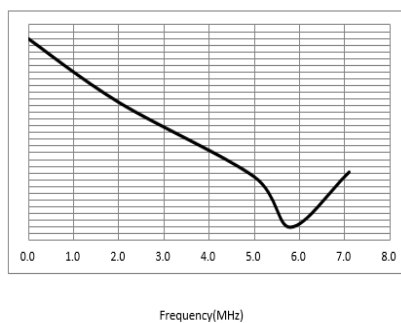
(S21)



*SPL10080-560M-M

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

(S21)



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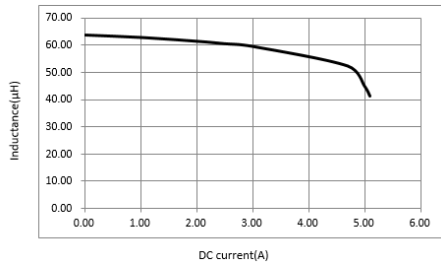
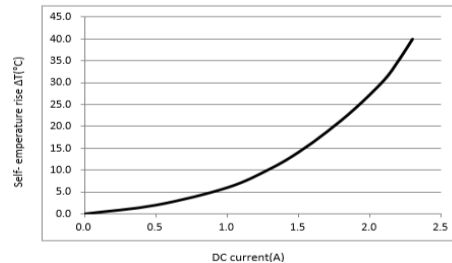
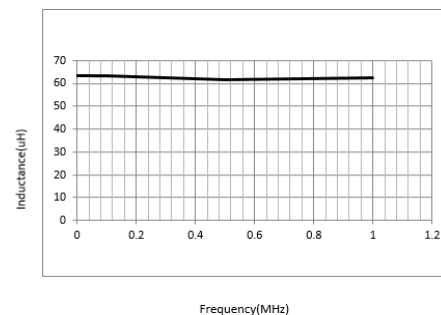
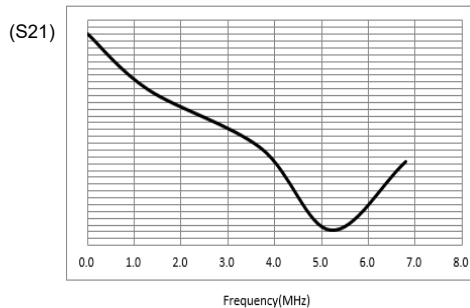
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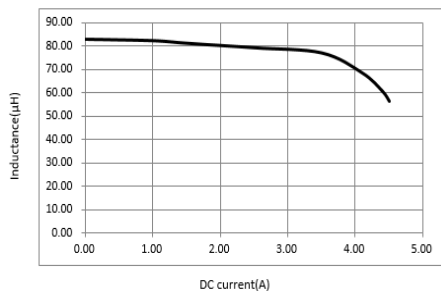
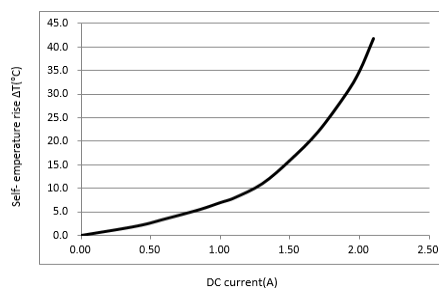
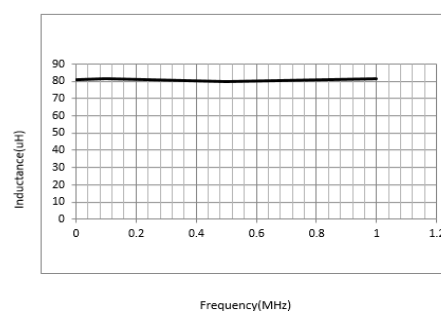
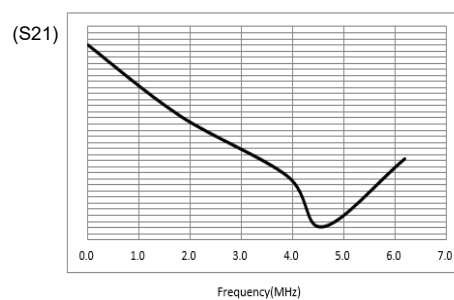
SPL10080

(Mn Type)

*SPL10080-680M-M

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

*SPL10080-820M-M

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

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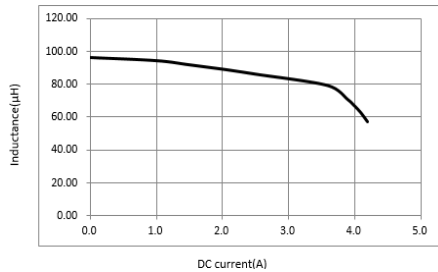
Fixed Inductor for Surface Mounting

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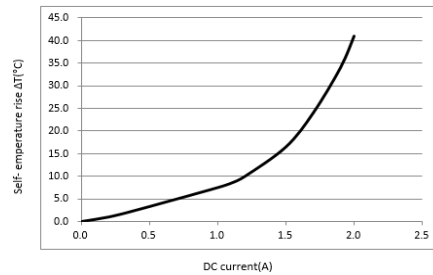
(Mn Type)

*SPL10080-101M-M

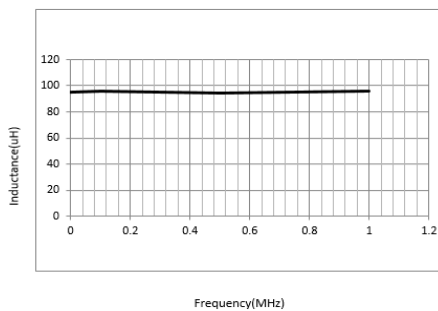
Inductance vs DC current



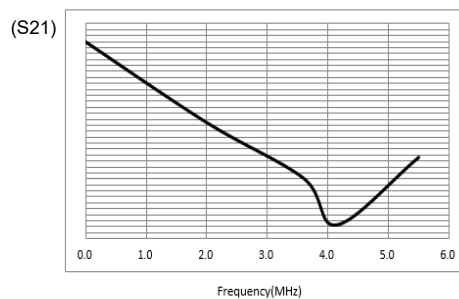
DC current vs Temperature



Inductance vs Frequency

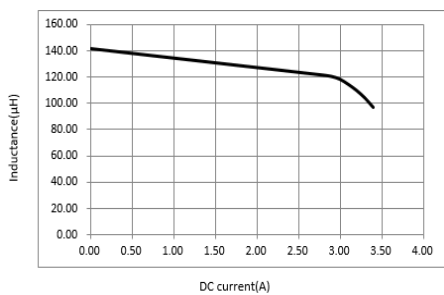


SRF(Self Resonance Frequency)

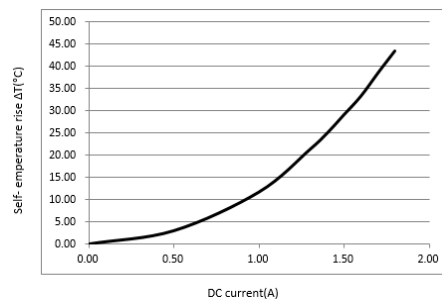


*SPL10080-151M-M

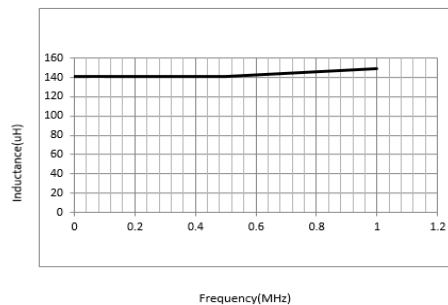
Inductance vs DC current



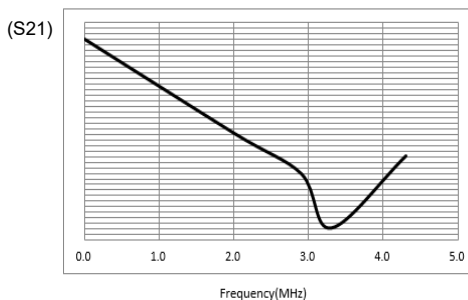
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

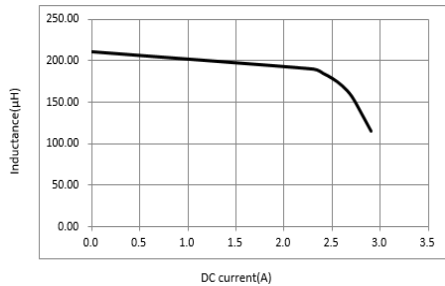
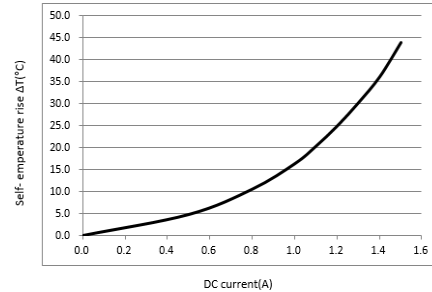
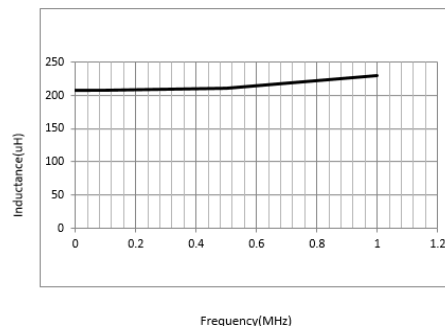
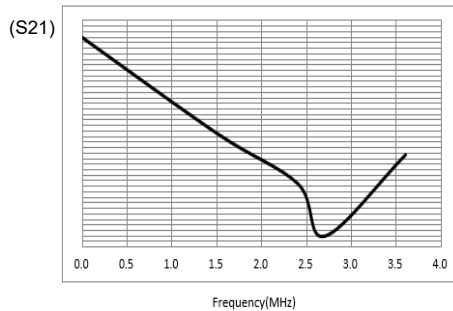
SMD Power Inductors

Fixed Inductor for Surface Mounting

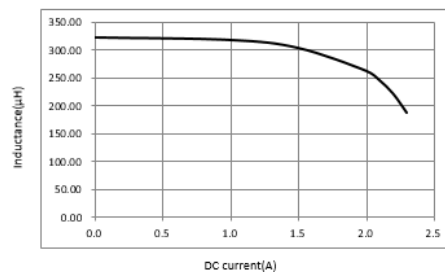
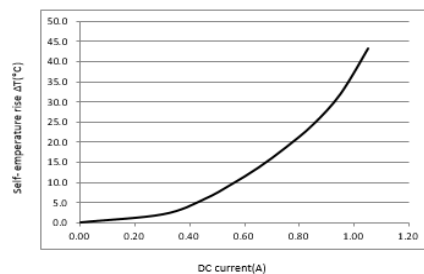
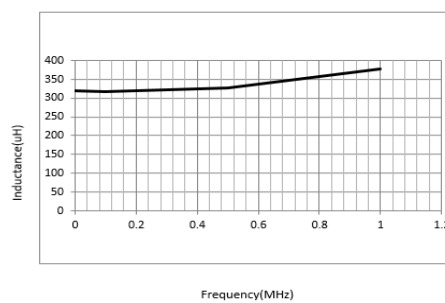
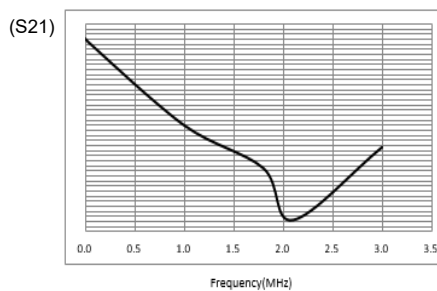
SPL10080

(Mn Type)

*SPL10080-221M-M

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

*SPL10080-331M-M

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

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

Revised 10/18/21

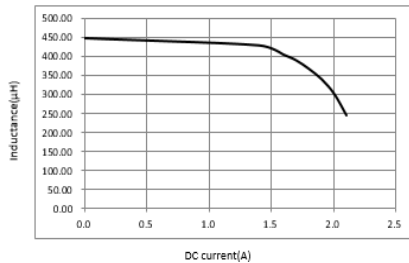
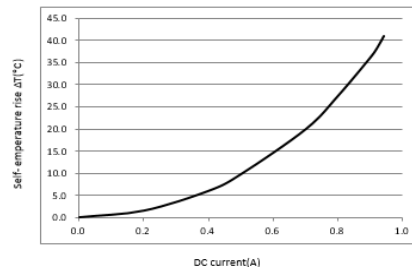
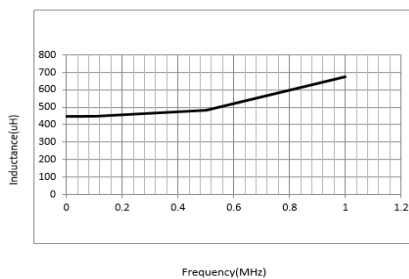
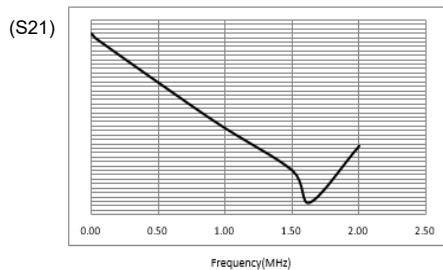
SMD Power Inductors

Fixed Inductor for Surface Mounting

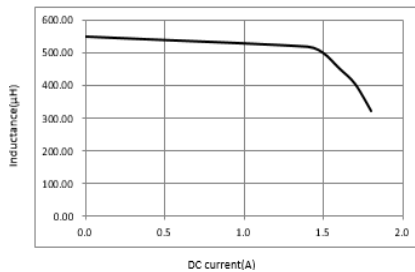
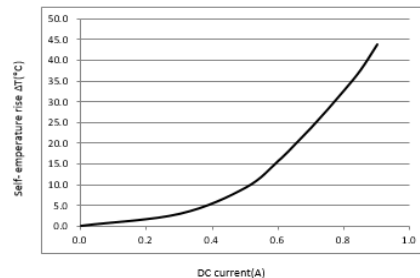
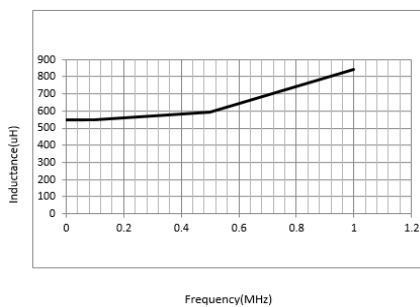
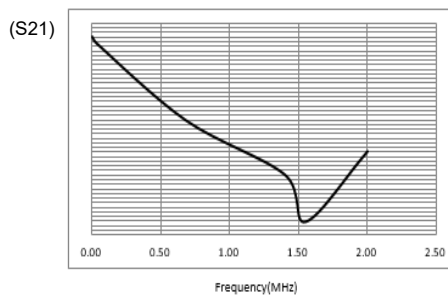
SPL10080

(Mn Type)

*SPL10080-471M-M

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

*SPL10080-561M-M

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

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SMD Power Inductors

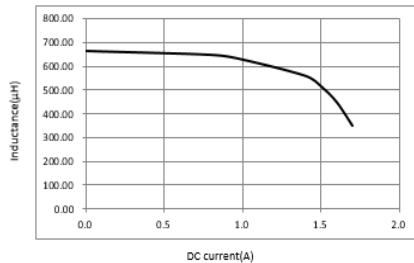
Fixed Inductor for Surface Mounting

SPL10080

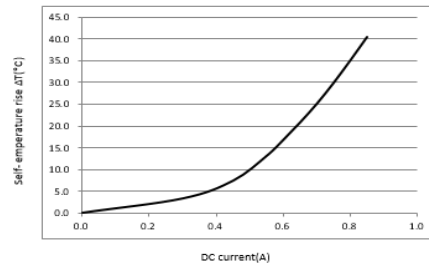
(Mn Type)

*SPL10080-681M-M

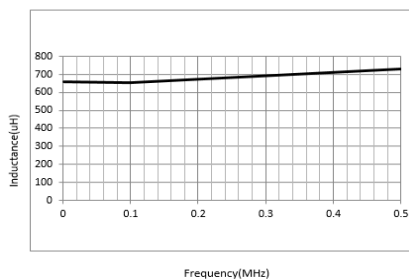
Inductance vs DC current



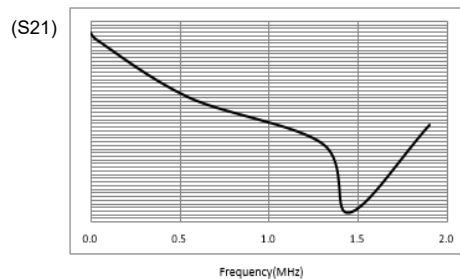
DC current vs Temperature



Inductance vs Frequency

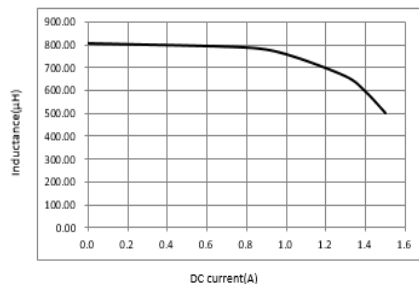


SRF(Self Resonance Frequency)

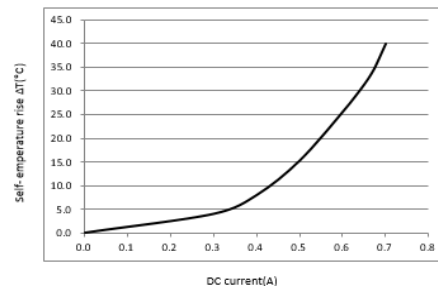


*SPL10080-821M-M

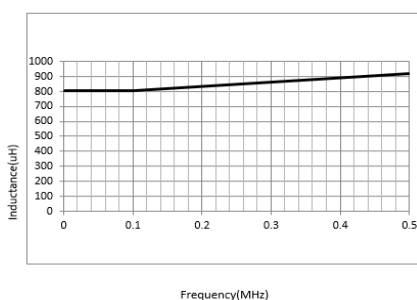
Inductance vs DC current



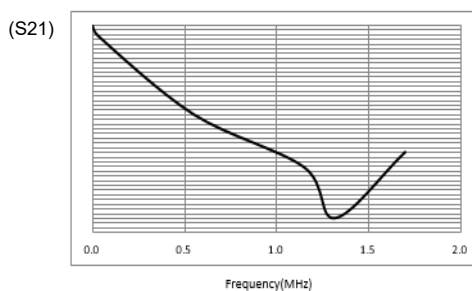
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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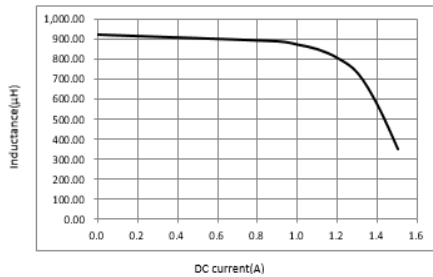
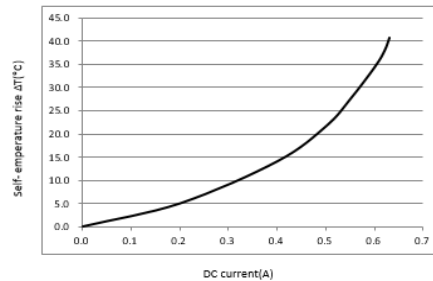
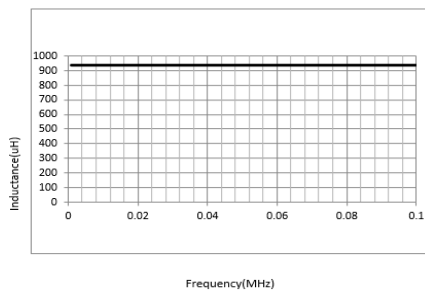
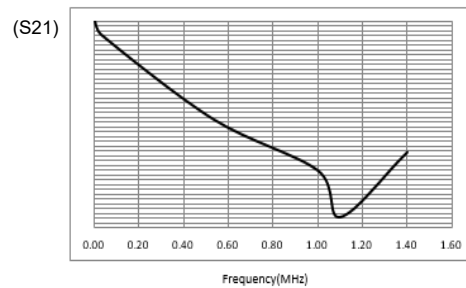
SMD Power Inductors

Fixed Inductor for Surface Mounting

SPL10080

(Mn Type)

*SPL10080-102M-M

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

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Revised 10/18/21