

SMD Power Inductors

Fixed Inductor for Surface Mounting

SPL12060

Construction

- Ferrite core
- Shielded construction

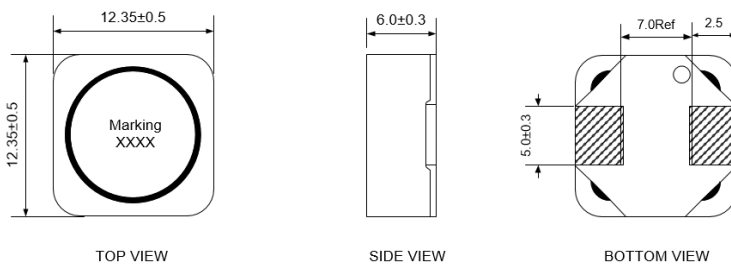
Features

- 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

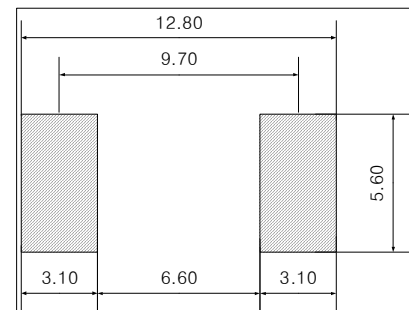
Applications

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

Dimensions(Unit:mm)



Recommended Land Pattern(Unit:mm)



100 — 용량값
XXXX — 생산 LINE
일
월
년

Electrical Characteristics

Ordering code	Inductance range (μH)	DCR(mΩ,±30%)	Isat*1(A,TYP)	Isat*1(A,MAX)	Irms*2(A,TYP)	Marking
SPL12060-1R0N	1.0±30%	4.5	26.0	23.0	15.7	1R0 XXXX
SPL12060-1R5N	1.5±30%	5.5	21.0	18.0	15.5	1R5 XXXX
SPL12060-2R2N	2.2±30%	6.5	17.0	15.5	14.9	2R2 XXXX
SPL12060-3R3N	3.3±30%	8.0	14.0	12.5	13.2	3R3 XXXX
SPL12060-4R7M	4.7±20%	10.5	12.5	11.0	11.2	4R7 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

*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

SPL12060**Electrical Characteristics**

Ordering code	Inductance range (μH)	DCR(mΩ,±30%)	Isat*1(A,TYP)	Isat*1(A,MAX)	Irms*2(A,TYP)	Marking
SPL12060-5R6M	5.6±20%	12	10.5	9.5	10.5	5R6 XXXX
SPL12060-6R8M	6.8±20%	16	9.5	8.5	8.9	6R8 XXXX
SPL12060-8R2M	8.2±20%	18	8.5	7.5	8.2	8R2 XXXX
SPL12060-100M	10±20%	22	8.0	6.5	7.8	100 XXXX
SPL12060-150M	15±20%	31	6.5	5.5	6.0	150 XXXX
SPL12060-180M	18±20%	33	6.0	5.0	5.8	180 XXXX
SPL12060-220M	22±20%	38	5.5	5.0	5.7	220 XXXX
SPL12060-330M	33±20%	60	4.5	4.0	4.1	330 XXXX
SPL12060-470M	47±20%	80	3.8	3.3	3.7	470 XXXX
SPL12060-560M	56±20%	101	3.5	3.0	3.1	560 XXXX
SPL12060-680M	68±20%	120	3.2	2.8	3.0	680 XXXX
SPL12060-820M	82±20%	136	2.9	2.5	2.8	820 XXXX
SPL12060-101M	100±20%	177	2.5	2.2	2.2	101 XXXX
SPL12060-151M	150±20%	251	2.1	1.8	1.9	151 XXXX
SPL12060-181M	180±20%	306	1.9	1.7	1.7	181 XXXX
SPL12060-221M	220±20%	345	1.7	1.5	1.5	221 XXXX
SPL12060-331M	330±20%	507	1.4	1.2	1.4	331 XXXX
SPL12060-471M	470±20%	767	1.2	1.0	1.3	471 XXXX
SPL12060-561M	560±20%	940	1.1	0.80	1.1	561 XXXX
SPL12060-681M	680±20%	1180	1.0	0.70	1.0	681 XXXX
SPL12060-821M	820±20%	1330	0.88	0.65	0.95	821 XXXX
SPL12060-102M	1000±20%	1870	0.81	0.60	0.76	102 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

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

Revised 10/18/21

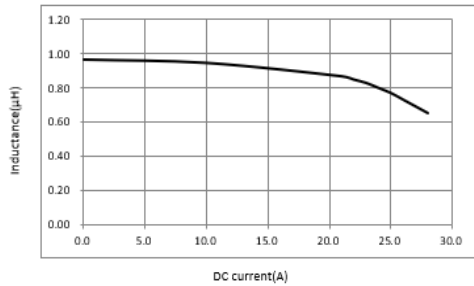
SMD Power Inductors

Fixed Inductor for Surface Mounting

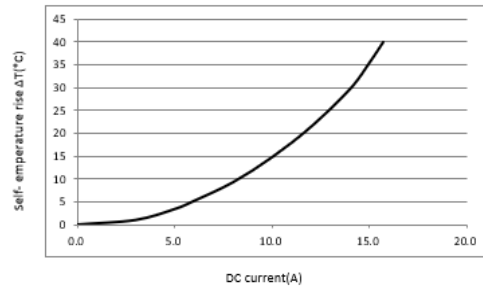
SPL12060

*SPL12060-1R0N

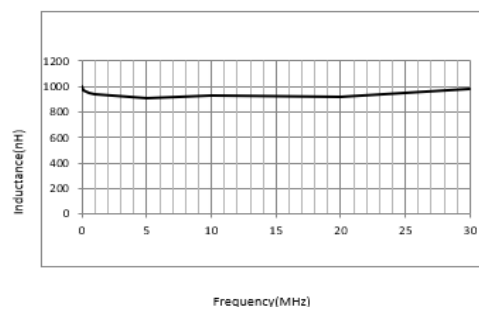
Inductance vs DC current



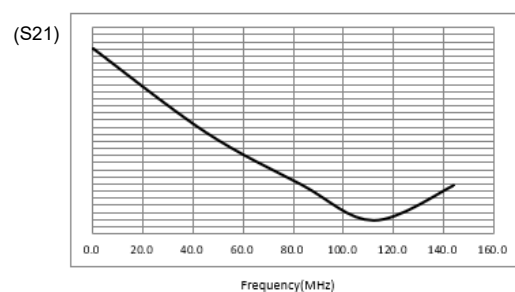
DC current vs Temperature



Inductance vs Frequency

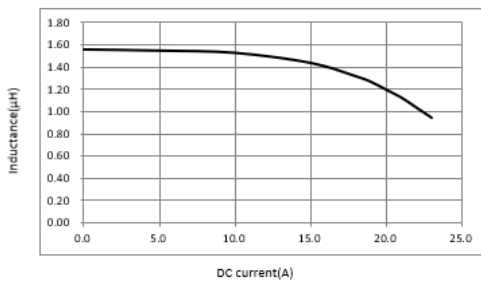


SRF(Self Resonance Frequency)

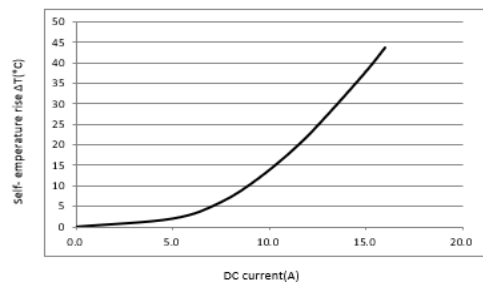


*SPL12060-1R5N

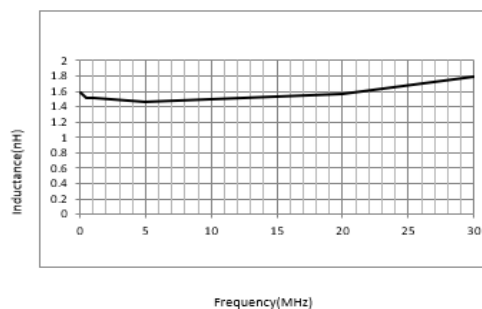
Inductance vs DC current



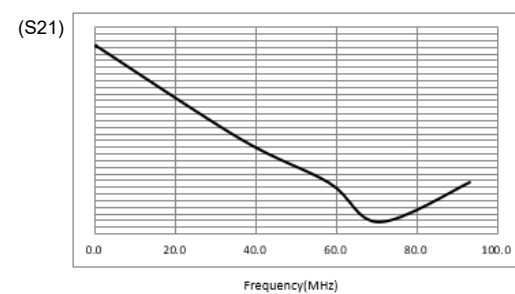
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

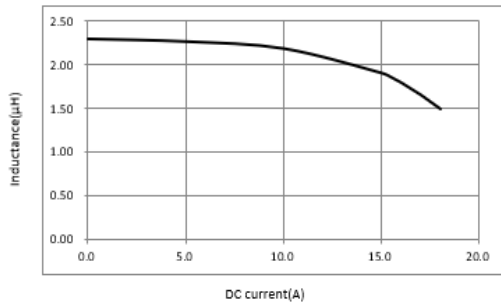
SMD Power Inductors

Fixed Inductor for Surface Mounting

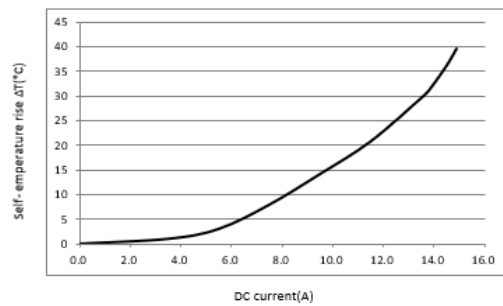
SPL12060

*SPL12060-2R2N

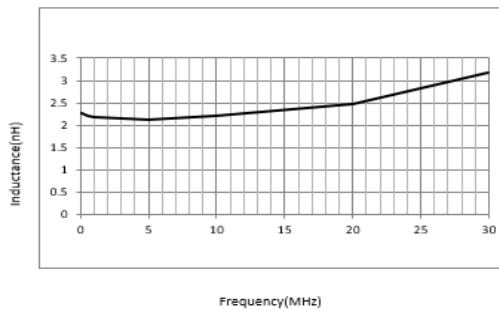
Inductance vs DC current



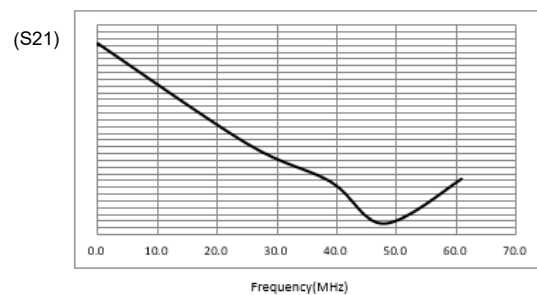
DC current vs Temperature



Inductance vs Frequency

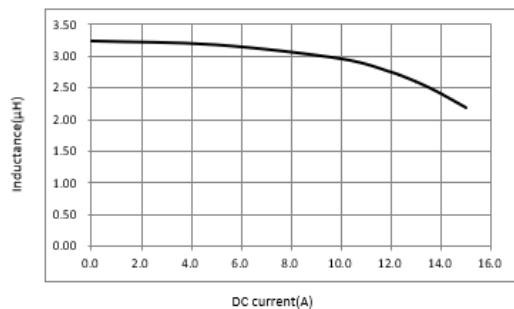


SRF(Self Resonance Frequency)

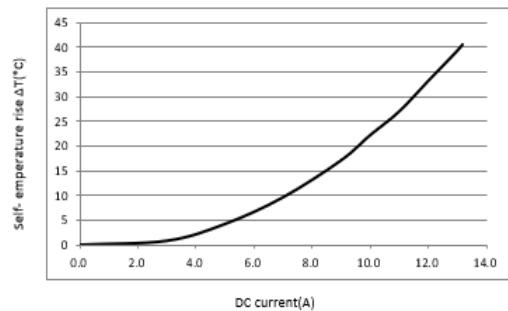


*SPL12060-3R3N

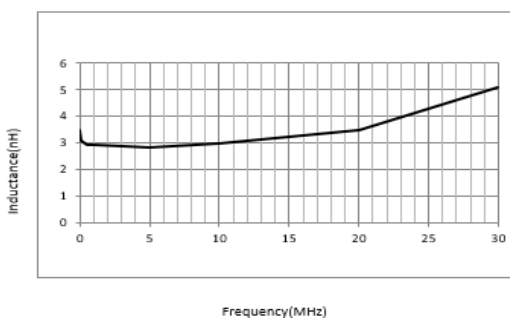
Inductance vs DC current



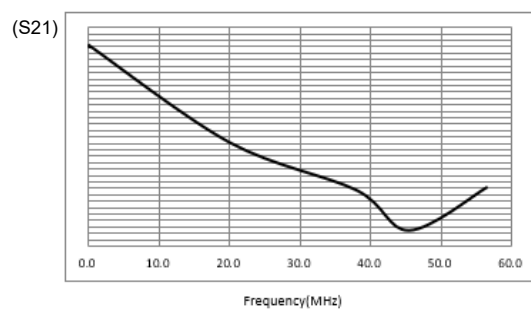
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

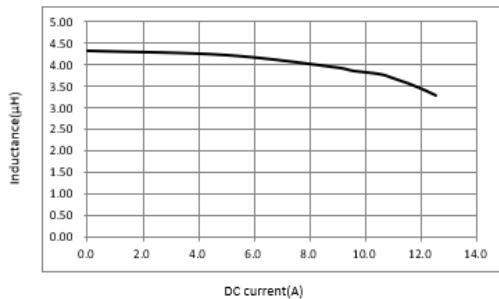
SMD Power Inductors

Fixed Inductor for Surface Mounting

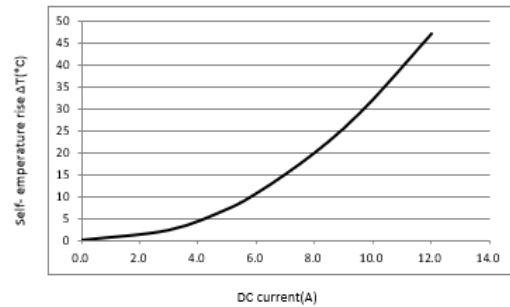
SPL12060

*SPL12060-4R7M

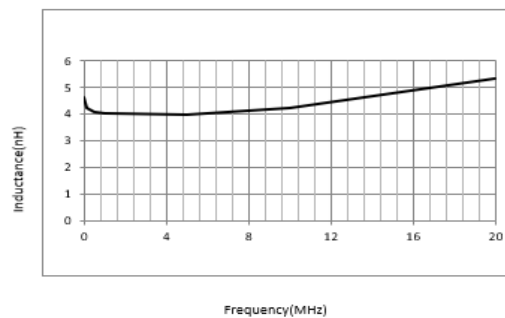
Inductance vs DC current



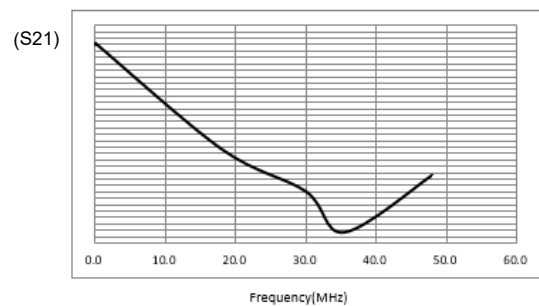
DC current vs Temperature



Inductance vs Frequency

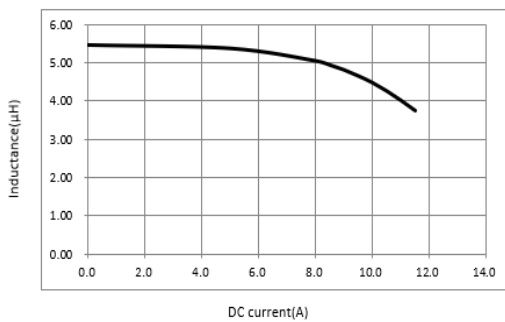


SRF(Self Resonance Frequency)

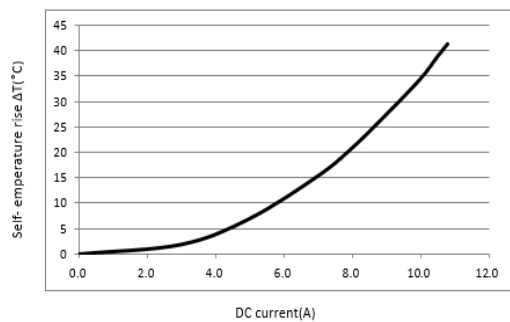


*SPL12060-5R6M

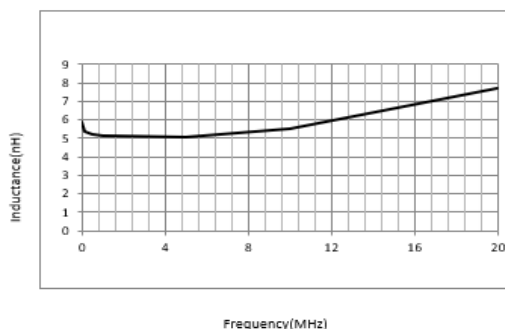
Inductance vs DC current



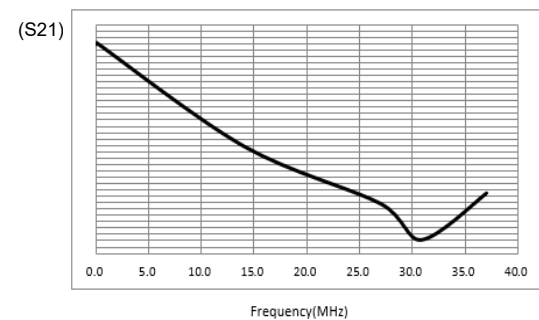
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

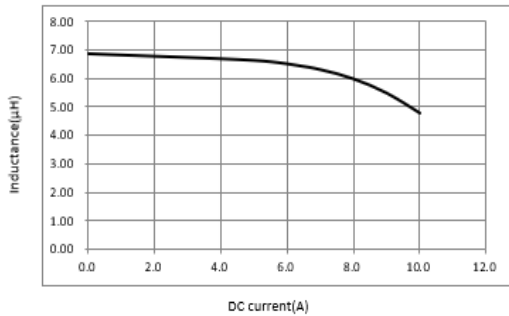
SMD Power Inductors

Fixed Inductor for Surface Mounting

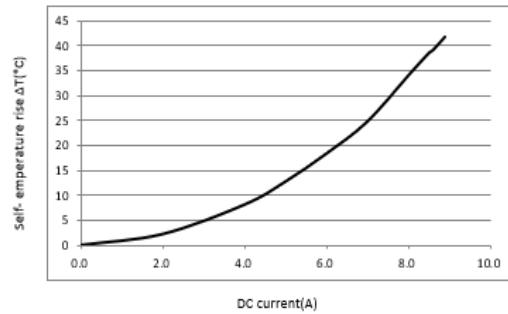
SPL12060

*SPL12060-6R8M

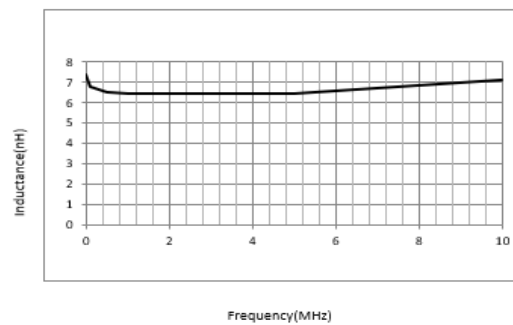
Inductance vs DC current



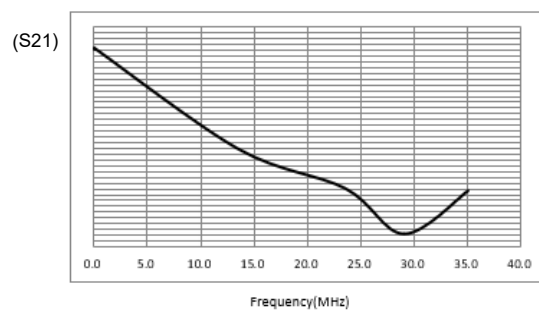
DC current vs Temperature



Inductance vs Frequency

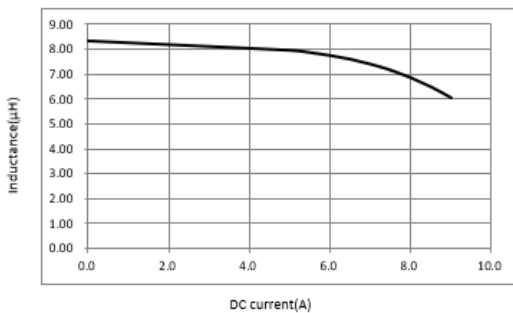


SRF(Self Resonance Frequency)

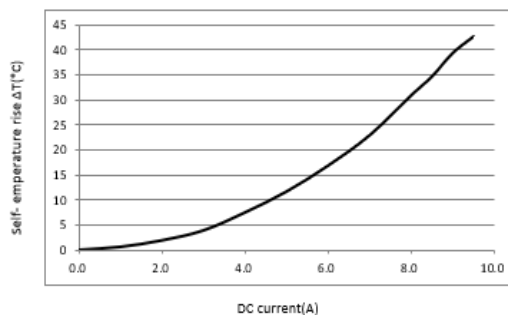


*SPL12060-8R2M

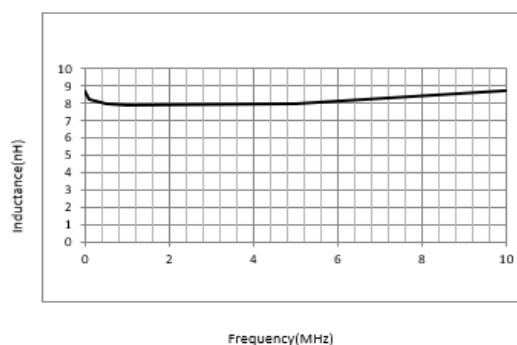
Inductance vs DC current



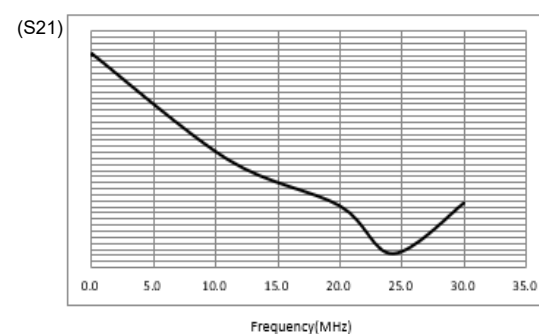
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

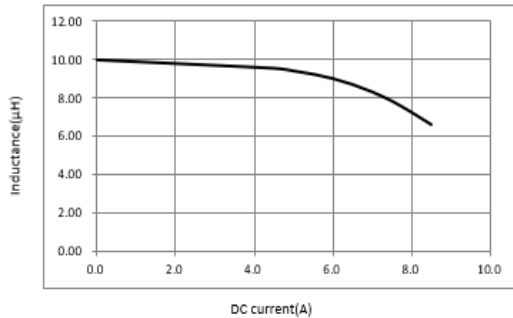
SMD Power Inductors

Fixed Inductor for Surface Mounting

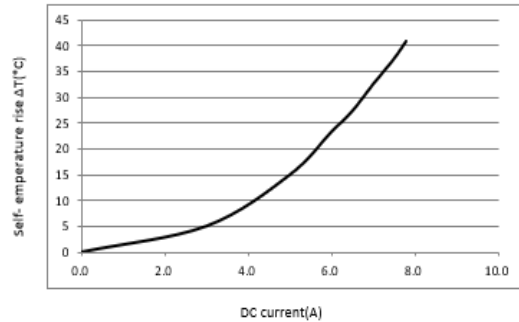
SPL12060

*SPL12060-100M

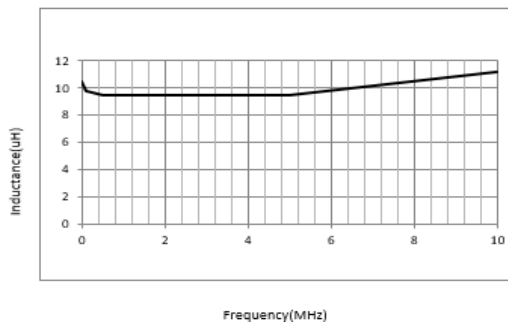
Inductance vs DC current



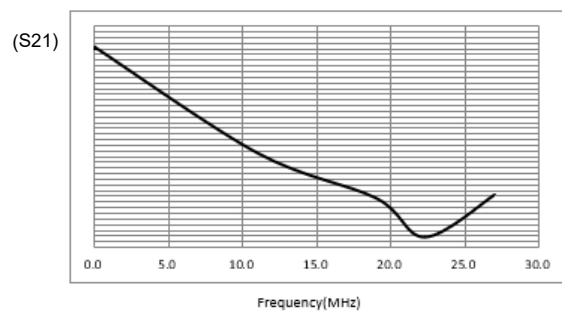
DC current vs Temperature



Inductance vs Frequency

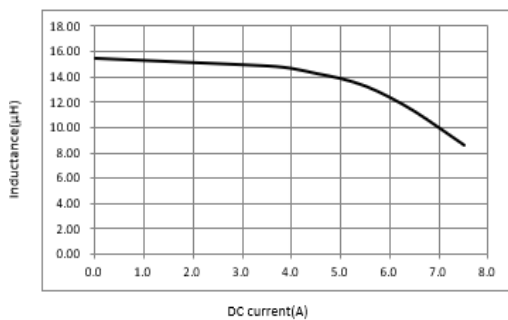


SRF(Self Resonance Frequency)

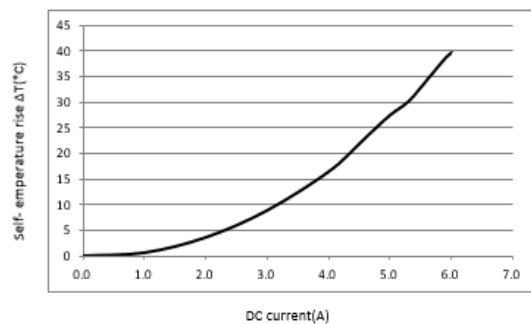


*SPL12060-150M

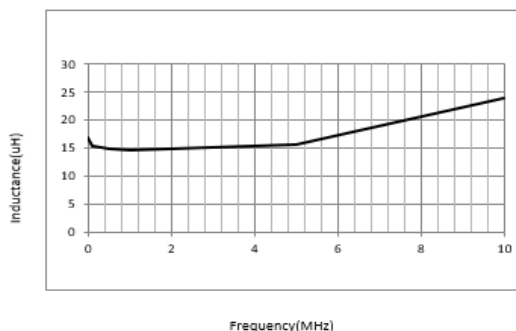
Inductance vs DC current



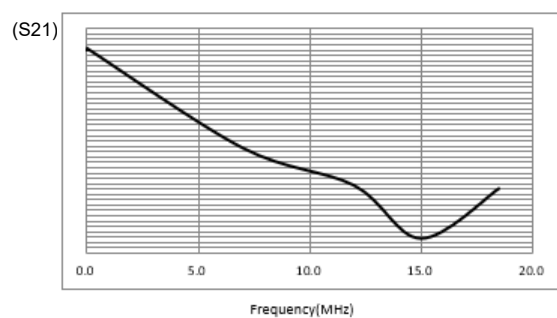
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

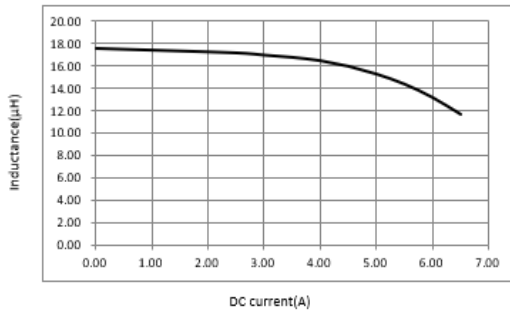
SMD Power Inductors

Fixed Inductor for Surface Mounting

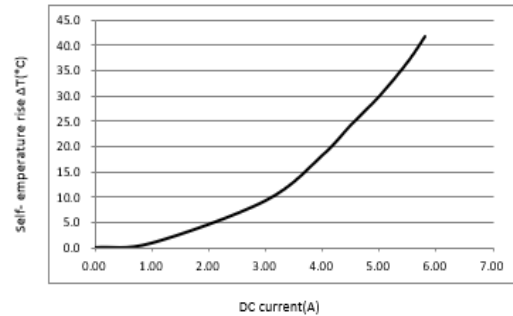
SPL12060

*SPL12060-180M

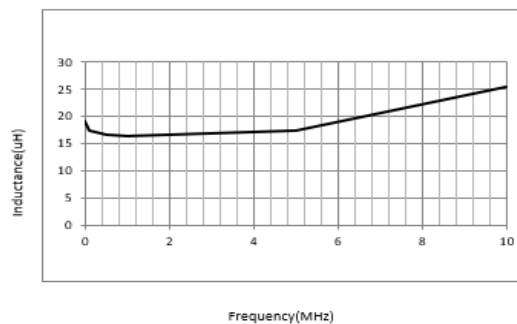
Inductance vs DC current



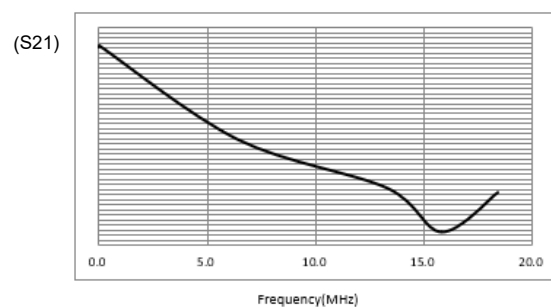
DC current vs Temperature



Inductance vs Frequency

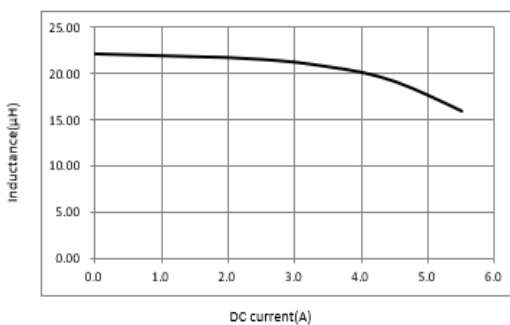


SRF(Self Resonance Frequency)

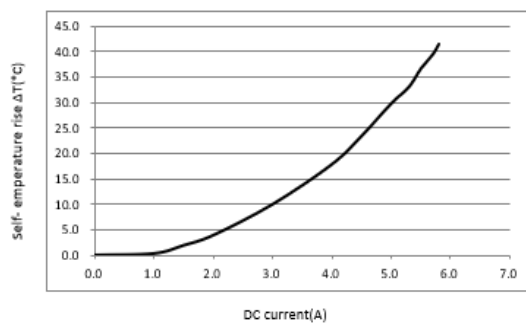


*SPL12060-220M

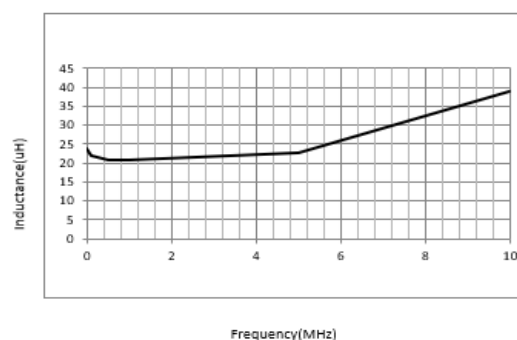
Inductance vs DC current



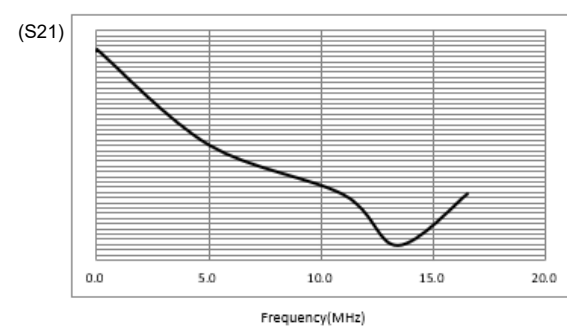
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

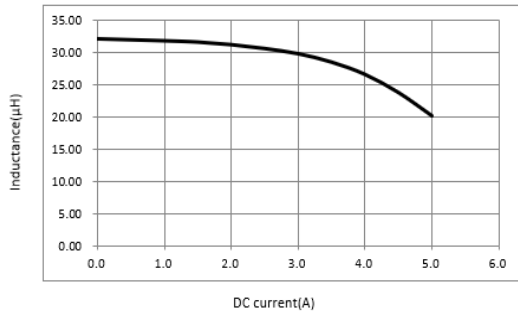
SMD Power Inductors

Fixed Inductor for Surface Mounting

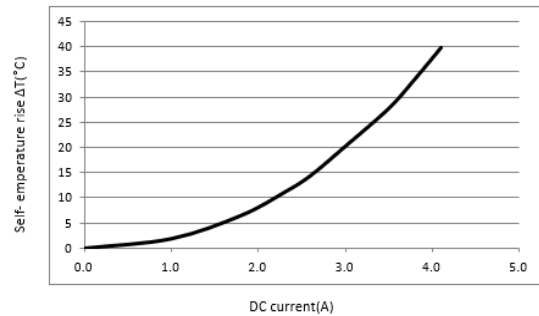
SPL12060

*SPL12060-330M

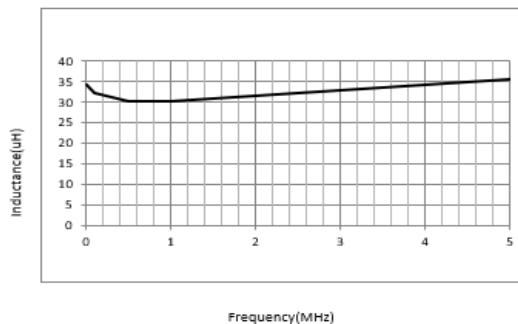
Inductance vs DC current



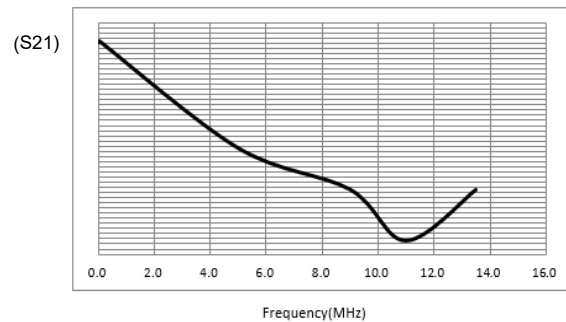
DC current vs Temperature



Inductance vs Frequency

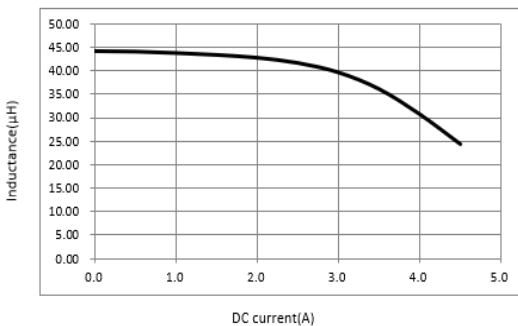


SRF(Self Resonance Frequency)

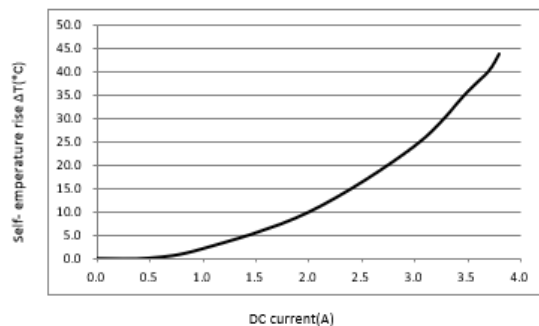


*SPL12060-470M

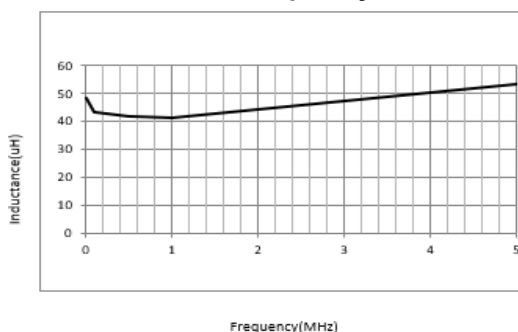
Inductance vs DC current



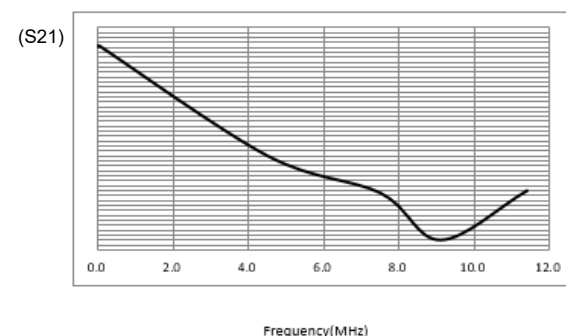
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

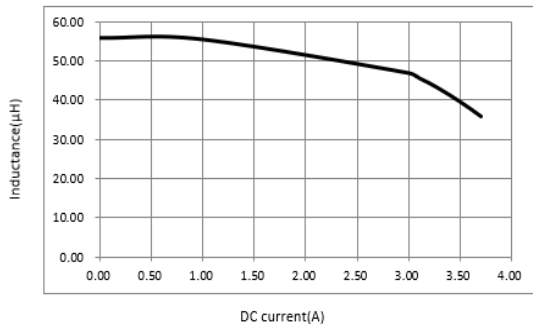
SMD Power Inductors

Fixed Inductor for Surface Mounting

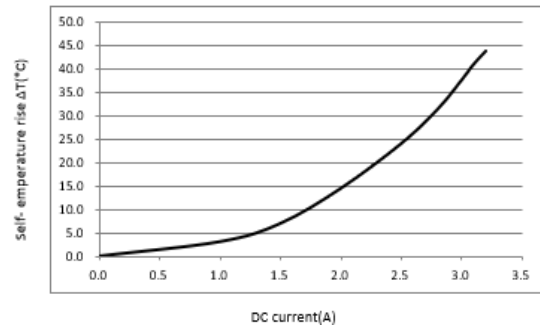
SPL12060

*SPL12060-560M

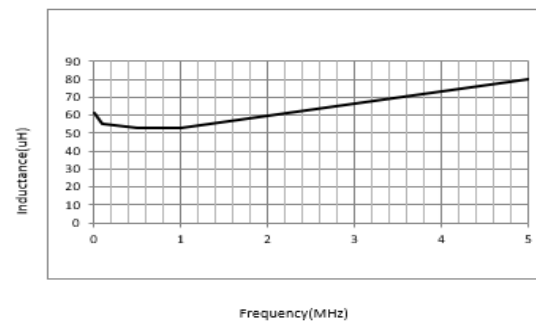
Inductance vs DC current



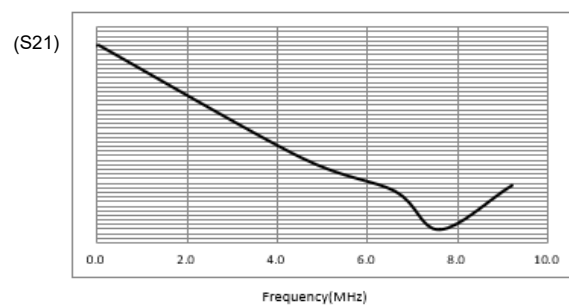
DC current vs Temperature



Inductance vs Frequency

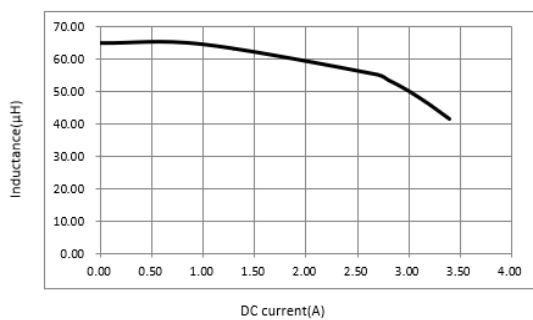


SRF(Self Resonance Frequency)

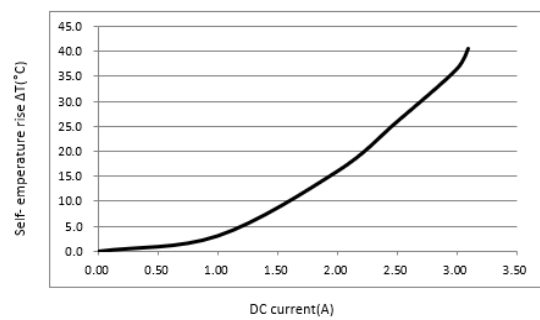


*SPL12060-680M

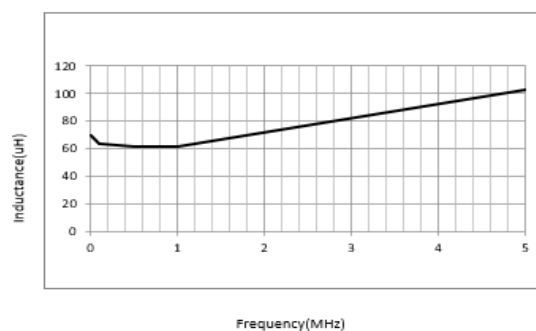
Inductance vs DC current



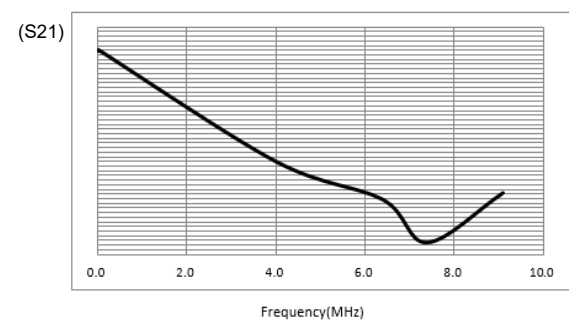
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

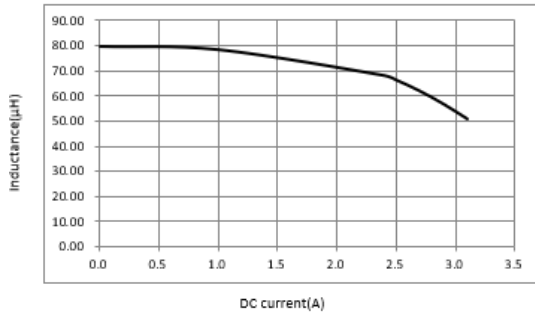
SMD Power Inductors

Fixed Inductor for Surface Mounting

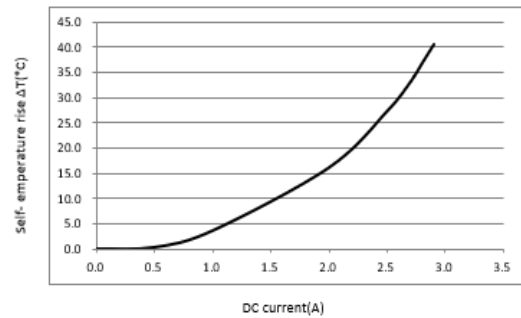
SPL12060

*SPL12060-820M

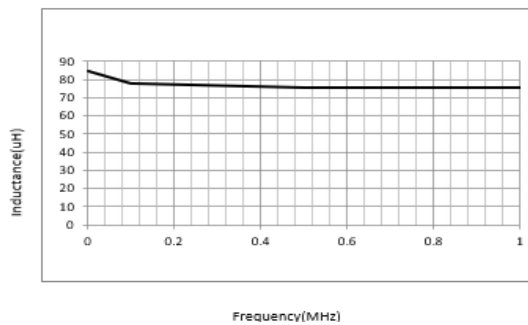
Inductance vs DC current



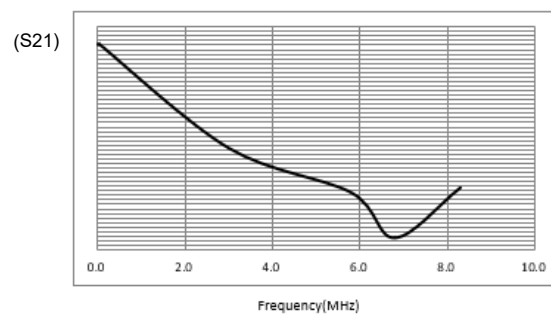
DC current vs Temperature



Inductance vs Frequency

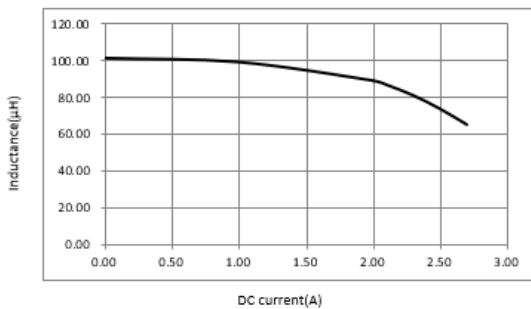


SRF(Self Resonance Frequency)

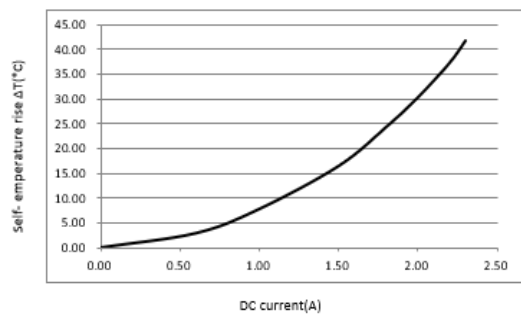


*SPL12060-101M

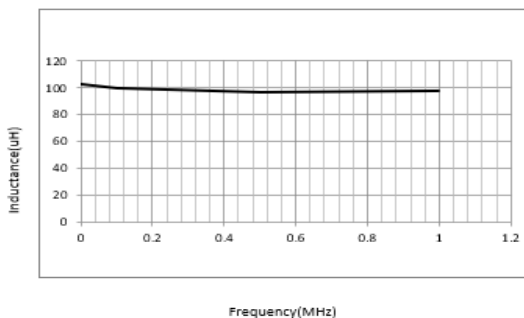
Inductance vs DC current



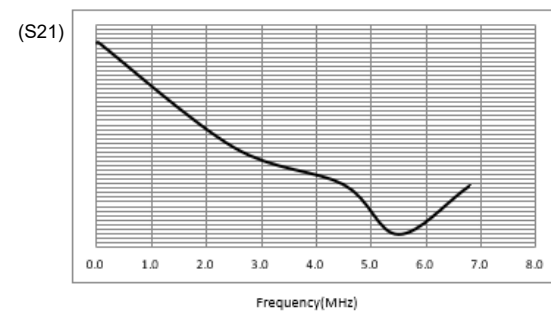
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

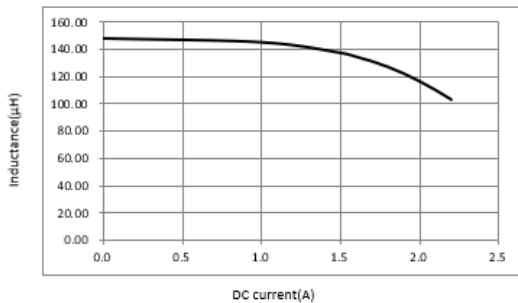
SMD Power Inductors

Fixed Inductor for Surface Mounting

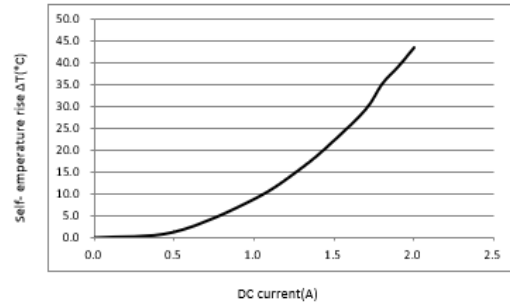
SPL12060

*SPL12060-151M

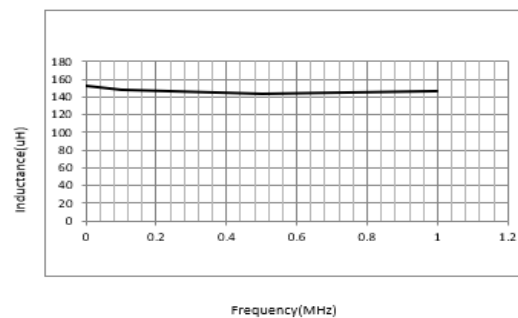
Inductance vs DC current



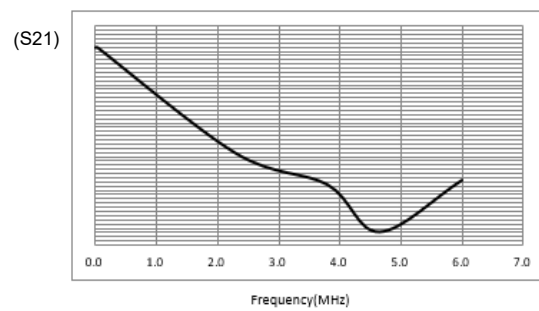
DC current vs Temperature



Inductance vs Frequency

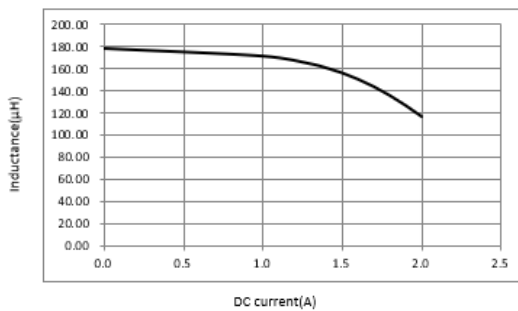


SRF(Self Resonance Frequency)

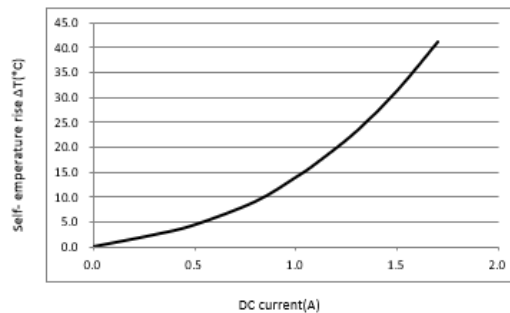


*SPL12060-181M

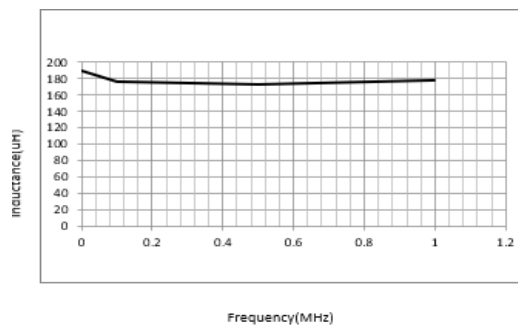
Inductance vs DC current



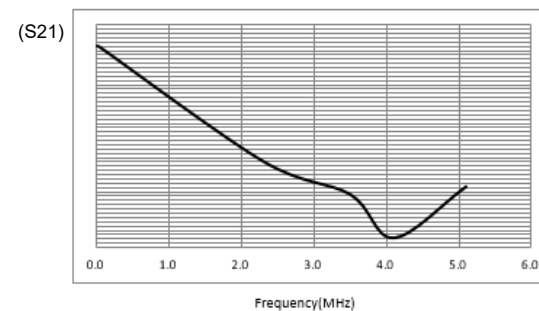
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

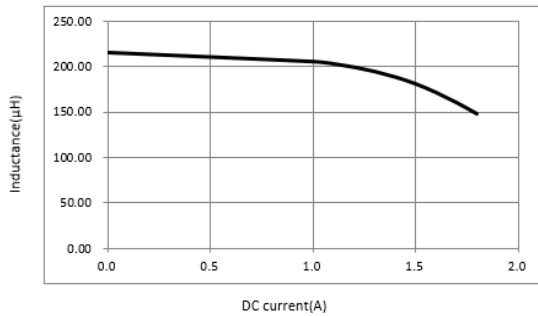
SMD Power Inductors

Fixed Inductor for Surface Mounting

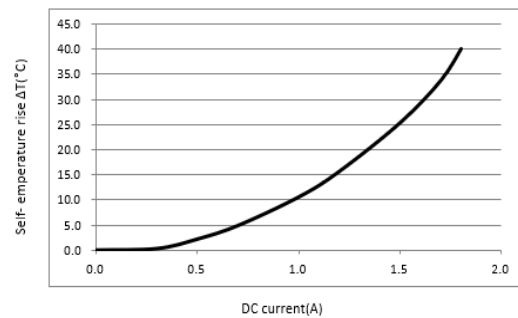
SPL12060

*SPL12060-221M

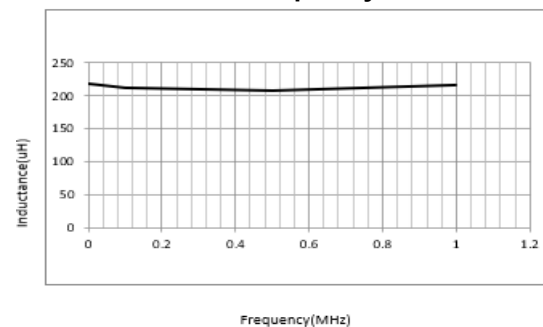
Inductance vs DC current



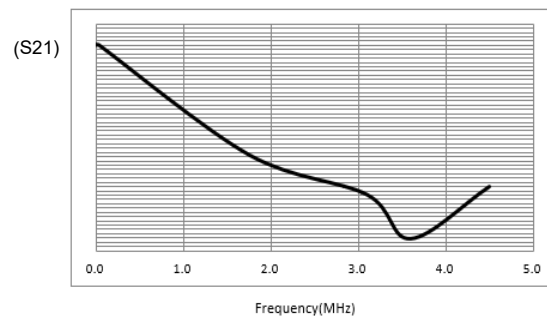
DC current vs Temperature



Inductance vs Frequency

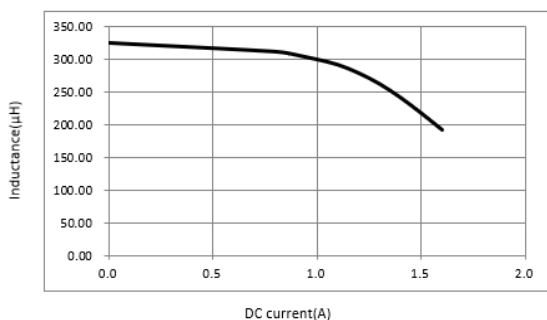


SRF(Self Resonance Frequency)

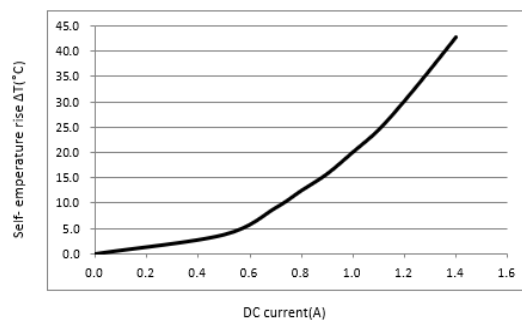


*SPL12060-331M

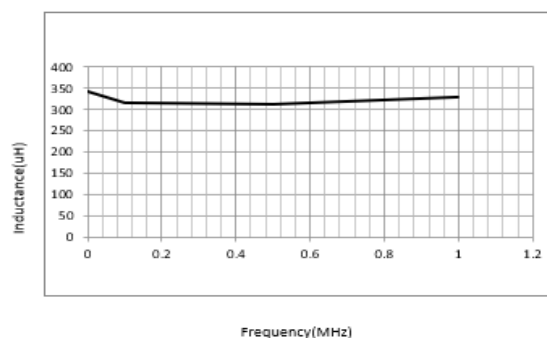
Inductance vs DC current



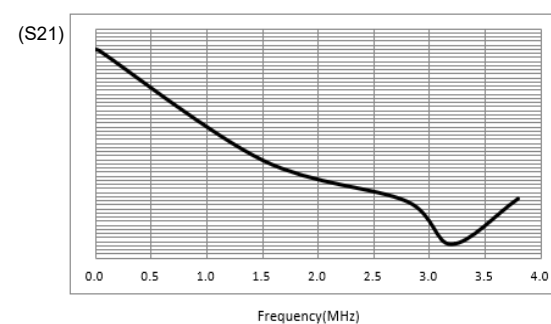
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

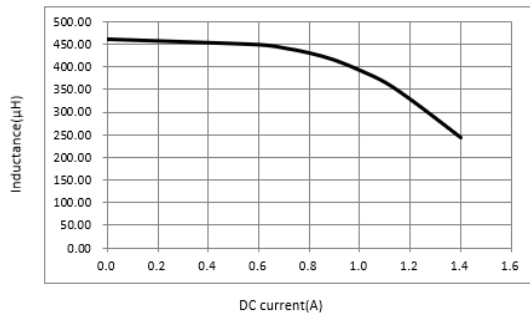
SMD Power Inductors

Fixed Inductor for Surface Mounting

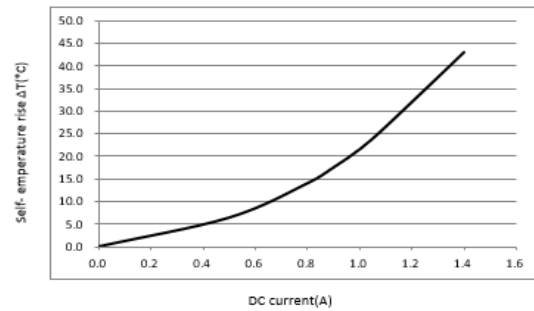
SPL12060

*SPL12060-471M

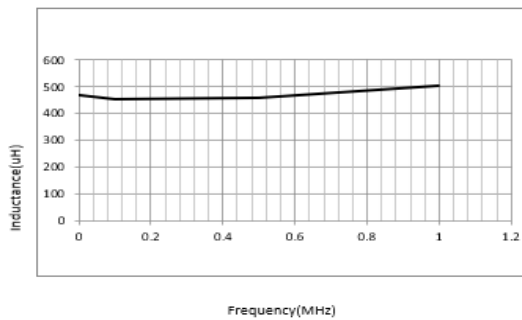
Inductance vs DC current



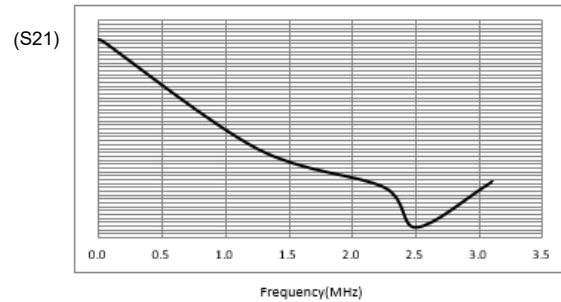
DC current vs Temperature



Inductance vs Frequency

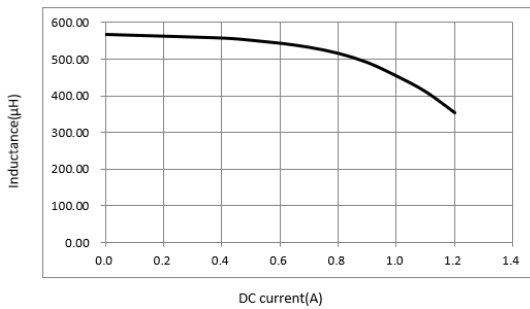


SRF(Self Resonance Frequency)

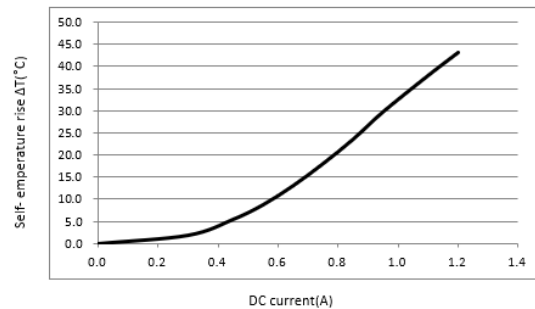


*SPL12060-561M

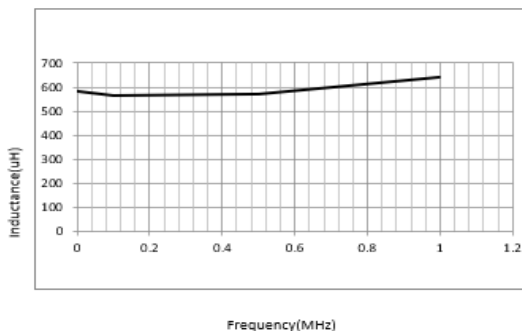
Inductance vs DC current



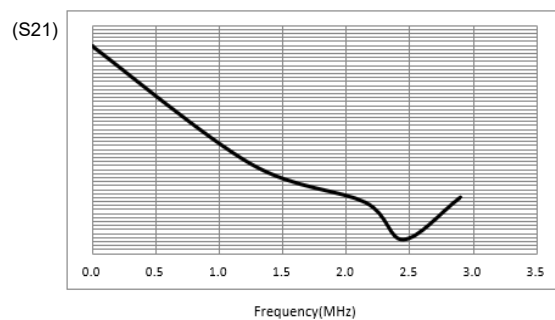
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

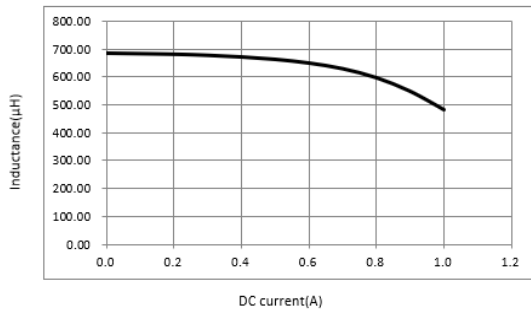
SMD Power Inductors

Fixed Inductor for Surface Mounting

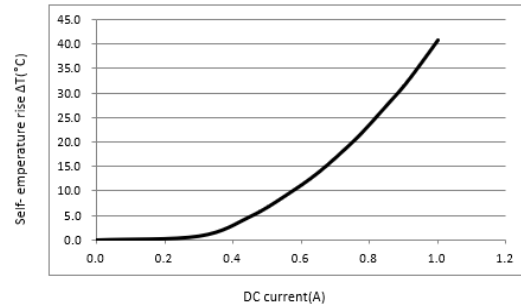
SPL12060

*SPL12060-681M

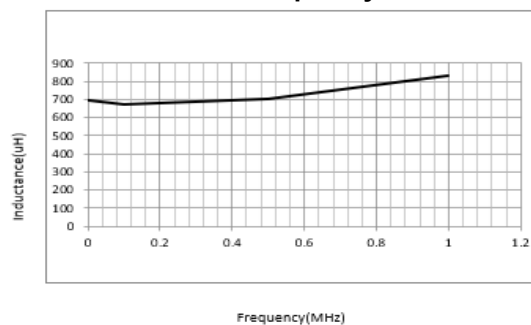
Inductance vs DC current



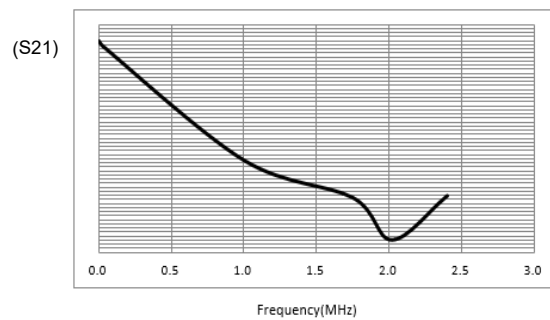
DC current vs Temperature



Inductance vs Frequency

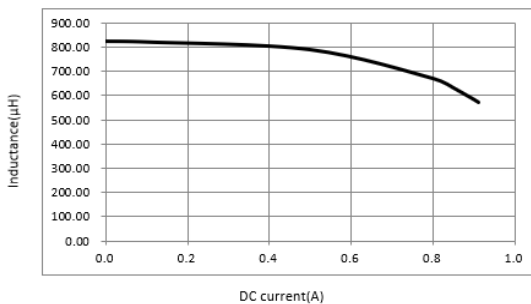


SRF(Self Resonance Frequency)

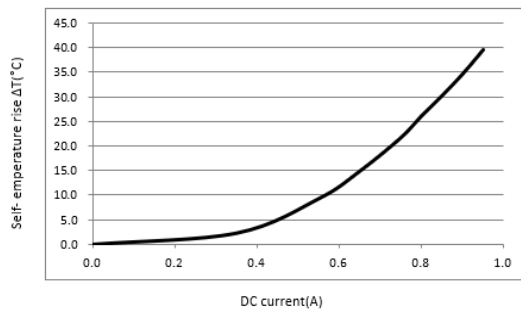


*SPL12060-821M

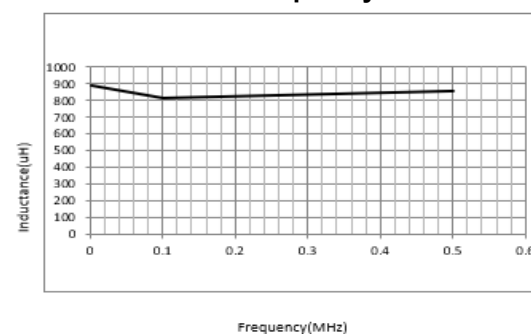
Inductance vs DC current



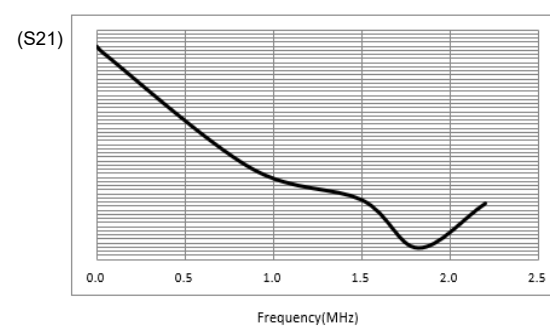
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21

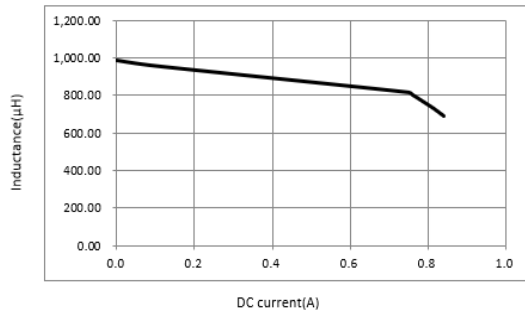
SMD Power Inductors

Fixed Inductor for Surface Mounting

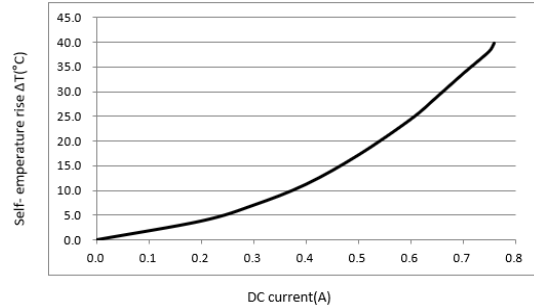
SPL12060

*SPL12060-102M

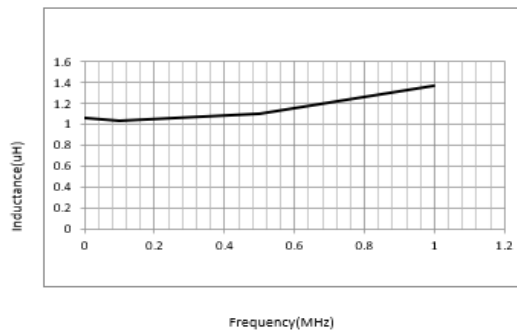
Inductance vs DC current



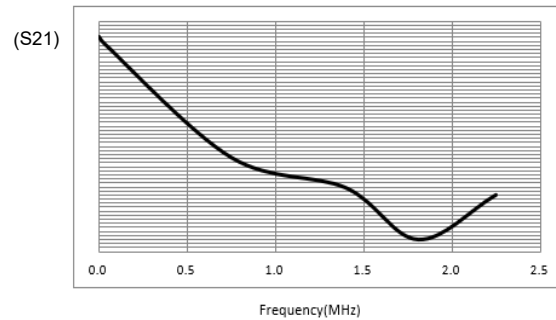
DC current vs Temperature



Inductance vs Frequency



SRF(Self Resonance Frequency)



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

Revised 10/18/21