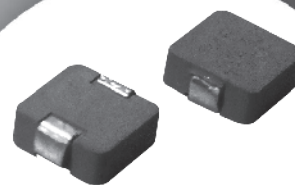


Power Inductor

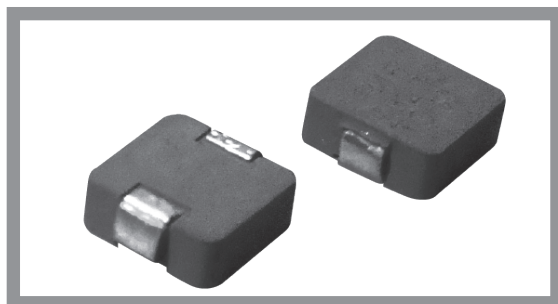
SMD / Molding Type



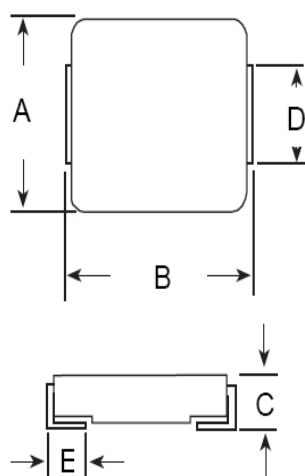
BSMI series

FEATURES

1. Operating temperature -55 to +125 °C.
2. High performance (saturation current) due to powdered iron composition.
3. Low loss due to design of low DC resistance.
4. Frequency application up to 3MHz.
5. Low profile with max thickness 3.0mm.
6. 100% lead free and metted RoHS standard.
7. Excellent solderability and resistance to soldering heat .
8. Suitable for reflow soldering.
9. High reliability and easy surface mount assembly.



DIMENSIONS



APPLICATIONS

- DC/DC converters in Notebook, Netbook, desktop and server and low profile, high current power supplies.

PARTNUMBER

A: PRODUCT FAMILY
 B: SIZE
 C: INDUCTANCE VALUE
 D: TOLERANCE
 E: COATING
 F: Lead Free
 G: ID CODE

BSMI	0420	-	R10	M	C	F	V
A	B		C	D	E	F	G

Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
0420	4.3 max.	4.7 max.	2.0 max.	2.0±0.05	0.76±0.30
0520	5.4 max.	5.7 max.	2.0 max.	2.54±0.25	1.02±0.30
0530	5.4 max.	5.7 max.	3.0 max.	2.54±0.25	1.02±0.30
0618	6.7 max.	7.2 max.	1.8 max.	3.18±0.3	1.27±0.30
0624	6.7 max.	7.2 max.	2.4 max.	3.18±0.3	1.27±0.30
0630	6.7 max.	7.2 max.	3.0 max.	3.18±0.3	1.27±0.30
1040	10.3 max.	11.2 max.	4.0 max.	3.0±0.3	2.0±0.30
1230	12.9 max.	13.7 max.	3.5 max.	4.7±0.3	2.3±0.30
1250	12.9 max.	13.7 max.	5.0 max.	4.7±0.3	2.3±0.30
1260	12.9 max.	13.7 max.	6.5 max.	4.7±0.3	2.3±0.30

BSMI0420

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI0420-R10MC	0.1	$\pm 20\%$	3.5	4.0	22.0	12.0
BSMI0420-R22MC	0.22	$\pm 20\%$	6.0	6.6	12.5	9.0
BSMI0420-R47MC	0.47	$\pm 20\%$	12.5	14.0	9.5	7.0
BSMI0420-1R0MC	1.0	$\pm 20\%$	24.0	27.0	7.0	4.5
BSMI0420-2R2MC	2.2	$\pm 20\%$	52.0	58.0	5.0	3.0
BSMI0420-4R7MC	4.7	$\pm 20\%$	95.0	105.0	1.7	1.8

BSMI0520

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI0520-R10MC	0.1	$\pm 20\%$	2.7	2.9	21	25
BSMI0520-R22MC	0.22	$\pm 20\%$	4.1	4.5	17	13
BSMI0520-R33MC	0.33	$\pm 20\%$	5.5	5.9	13	7.5
BSMI0520-R47MC	0.47	$\pm 20\%$	7.1	7.7	12.5	8
BSMI0520-1R0MC	1	$\pm 20\%$	16.8	18.1	7.5	7
BSMI0520-2R2MC	2.2	$\pm 20\%$	34.9	37.7	5	5.5
BSMI0520-3R3MC	3.3	$\pm 20\%$	53.5	57.8	4.1	4.7
BSMI0520-4R7MC	4.7	$\pm 20\%$	75.3	81.3	3.2	3
BSMI0520-5R6MC	5.6	$\pm 20\%$	85.2	92	3	2.2
BSMI0520-6R8MC	6.8	$\pm 20\%$	114	121	2.8	2.1
BSMI0520-10RMC	10	$\pm 20\%$	169.3	182.8	2.2	2

BSMI0530

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI0530-R10MC	0.1	$\pm 20\%$	2.6	2.9	21	25
BSMI0530-R22MC	0.22	$\pm 20\%$	3.5	3.9	21	14.5
BSMI0530-R33MC	0.33	$\pm 20\%$	4.5	5	16.5	9
BSMI0530-R47MC	0.47	$\pm 20\%$	5.4	6	14	9
BSMI0530-1R0MC	1	$\pm 20\%$	10	11	10	6.5
BSMI0530-1R5MC	1.5	$\pm 20\%$	17.1	18.5	7.5	7
BSMI0530-2R2MC	2.2	$\pm 20\%$	22.5	25	6.75	5.5
BSMI0530-3R3MC	3.3	$\pm 20\%$	36.4	40.4	5.5	7
BSMI0530-4R7MC	4.7	$\pm 20\%$	54	60	4.5	5.2
BSMI0530-5R6MC	5.6	$\pm 20\%$	63	70.6	4.25	3.5
BSMI0530-10RMC	10	$\pm 20\%$	122.1	131.9	2.75	2.25
BSMI0530-22RMC	22	$\pm 20\%$	260	270	1.9	1.7

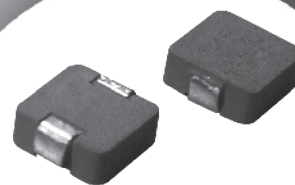
BSMI0618

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI0618-R10MC	0.1	$\pm 20\%$	3	3.5	18	40
BSMI0618-R15MC	0.15	$\pm 20\%$	4.7	5.2	15	38
BSMI0618-R22MC	0.22	$\pm 20\%$	5.3	5.7	14	26
BSMI0618-R33MC	0.33	$\pm 20\%$	6.6	7	12	18
BSMI0618-R47MC	0.47	$\pm 20\%$	8.4	9.3	11	18
BSMI0618-R68MC	0.68	$\pm 20\%$	12.7	13.9	9	17
BSMI0618-R82MC	0.82	$\pm 20\%$	13.8	15.9	8	17
BSMI0618-1R0MC	1	$\pm 20\%$	17.5	18.3	7	14
BSMI0618-1R5MC	1.5	$\pm 20\%$	32.6	34	4	11.5
BSMI0618-2R2MC	2.2	$\pm 20\%$	40.3	46	3.75	13
BSMI0618-2R5MC	2.5	$\pm 20\%$	49.9	52.4	3.5	10.4
BSMI0618-3R3MC	3.3	$\pm 20\%$	56.2	60.1	3.25	10
BSMI0618-4R7MC	4.7	$\pm 20\%$	76.6	78	3	8



Power Inductor

SMD /Molding Type



BSMI0624

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI0624-R10MC	0.1	$\pm 20\%$	1.5	1.7	30.0	50.0
BSMI0624-R22MC	0.22	$\pm 20\%$	2.9	3.2	21.0	34.0
BSMI0624-R33MC	0.33	$\pm 20\%$	3.7	4.1	18.0	22.0
BSMI0624-R47MC	0.47	$\pm 20\%$	6.0	6.5	13.5	21.0
BSMI0624-R68MC	0.68	$\pm 20\%$	8.7	9.4	11.0	18.0
BSMI0624-R82MC	0.82	$\pm 20\%$	10.6	11.8	10.0	17.0
BSMI0624-1R0MC	1	$\pm 20\%$	13.1	14.2	9.0	16.0
BSMI0624-1R5MC	1.5	$\pm 20\%$	18.5	21.2	7.5	15.0
BSMI0624-2R2MC	2.2	$\pm 20\%$	28.0	34.0	6.5	14.0
BSMI0624-3R3MC	3.3	$\pm 20\%$	36.5	51.6	5.0	13.0
BSMI0624-4R7MC	4.7	$\pm 20\%$	45.2	63.0	4.5	10.0
BSMI0624-6R8MC	6.8	$\pm 20\%$	72.5	95.0	3.5	9.0
BSMI0624-8R2MC	8.2	$\pm 20\%$	84.2	106.0	3.0	8.0
BSMI0624-10RMC	10	$\pm 20\%$	115.6	129.0	2.5	7.0

BSMI0630

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI0630-1R0MC	1	$\pm 20\%$	7.6	8.0	12.5	9.5
BSMI0630-2R2MC	2.2	$\pm 20\%$	15.7	16.5	9.0	7.0
BSMI0630-3R3MC	3.3	$\pm 20\%$	24.8	26.0	7.0	6.5
BSMI0630-4R7MC	4.7	$\pm 20\%$	31.8	33.4	6.0	4.0
BSMI0630-6R8MC	6.8	$\pm 20\%$	44.6	46.8	5.5	4.0
BSMI0630-8R2MC	8.2	$\pm 20\%$	52.3	54.9	5.0	4.0
BSMI0630-10RMC	10	$\pm 20\%$	67.8	71.2	4.0	3.5
BSMI0630-22RMC	22	$\pm 20\%$	128.9	135.0	2.9	2.5

BSMI1040

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI1040-R19MC	0.19	$\pm 20\%$	0.7	0.8	40.0	46.0
BSMI1040-R22MC	0.22	$\pm 20\%$	0.85	0.95	33.0	44.0
BSMI1040-R24MC	0.24	$\pm 20\%$	0.85	0.95	33.0	44.0
BSMI1040-R36MC	0.36	$\pm 20\%$	1.05	1.15	32.0	30.0
BSMI1040-R47MC	0.47	$\pm 20\%$	1.53	1.68	30.0	30.0
BSMI1040-R56MC	0.56	$\pm 20\%$	1.61	1.8	32.0	22.0
BSMI1040-R78MC	0.78	$\pm 20\%$	1.8	1.9	27.0	22.0
BSMI1040-1R0MC	1	$\pm 20\%$	2.3	2.5	25.0	20.0
BSMI1040-1R8MC	1.8	$\pm 20\%$	4.5	5	17.0	16.0
BSMI1040-2R0MC	2	$\pm 20\%$	5.2	5.8	16.0	14.0
BSMI1040-4R7MC	4.7	$\pm 20\%$	12.9	14.2	9.5	7.6
BSMI1040-6R8MC	6.8	$\pm 20\%$	17.5	19.3	9.0	7.5
BSMI1040-10RMC	10	$\pm 20\%$	27.8	30.5	7.5	7.1
BSMI1040-15RMC	15	$\pm 20\%$	40.9	45	6.3	6.0
BSMI1040-22RMC	22	$\pm 20\%$	60.4	66	5.0	4.5
BSMI1040-33RMC	33	$\pm 20\%$	87.5	94.5	4.4	4.0
BSMI1040-47RMC	47	$\pm 20\%$	132	145	3.3	3.0
BSMI1040-100MC	100	$\pm 20\%$	249	270	2.5	2.25

BSMI1230

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI1230-R10MC	0.1	$\pm 20\%$	0.8	0.96	43	84
BSMI1230-R15MC	0.15	$\pm 20\%$	1	1.2	41	75
BSMI1230-R22MC	0.22	$\pm 20\%$	1.1	1.3	38.5	65
BSMI1230-R33MC	0.33	$\pm 20\%$	1.3	1.5	36.5	62
BSMI1230-R47MC	0.47	$\pm 20\%$	1.6	2	32	55
BSMI1230-R60MC	0.6	$\pm 20\%$	1.8	2.2	29	51
BSMI1230-R68MC	0.68	$\pm 20\%$	2.3	2.5	28	49

BSMI1230

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI1230-R82MC	0.82	$\pm 20\%$	2.6	3	25	44
BSMI1230-1R0MC	1	$\pm 20\%$	3.3	3.5	24	40
BSMI1230-1R5MC	1.5	$\pm 20\%$	5.1	5.5	19	35
BSMI1230-1R8MC	1.8	$\pm 20\%$	6.5	7	16.5	30
BSMI1230-2R2MC	2.2	$\pm 20\%$	7.2	8	16	29
BSMI1230-3R3MC	3.3	$\pm 20\%$	11	12	12	27
BSMI1230-4R7MC	4.7	$\pm 20\%$	14.3	15	10	24
BSMI1230-5R6MC	5.6	$\pm 20\%$	18.3	19	9.5	19
BSMI1230-6R8MC	6.8	$\pm 20\%$	19.8	22	9	18
BSMI1230-8R2MC	8.2	$\pm 20\%$	24.8	28	8.5	16
BSMI1230-10RMC	10	$\pm 20\%$	30.4	34	7	14

BSMI1250

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI1250-R10MC	0.1	$\pm 20\%$	0.53	0.6	55	118
BSMI1250-R22MC	0.22	$\pm 20\%$	0.64	0.8	51	110
BSMI1250-R33MC	0.33	$\pm 20\%$	0.85	1.1	42	80
BSMI1250-R47MC	0.47	$\pm 20\%$	1.1	1.3	38	65
BSMI1250-R56MC	0.56	$\pm 20\%$	1.3	1.5	36	55
BSMI1250-R68MC	0.68	$\pm 20\%$	1.5	1.7	34	54
BSMI1250-R82MC	0.82	$\pm 20\%$	2	2.3	31	53
BSMI1250-1R0MC	1	$\pm 20\%$	2.1	2.5	29	50
BSMI1250-1R5MC	1.5	$\pm 20\%$	3.4	4.1	23	48
BSMI1250-1R8MC	1.8	$\pm 20\%$	4.2	4.9	19	40
BSMI1250-2R2MC	2.2	$\pm 20\%$	4.6	5.5	20	32
BSMI1250-3R3MC	3.3	$\pm 20\%$	7.7	9.2	15	32
BSMI1250-4R7MC	4.7	$\pm 20\%$	12.8	15	12	27
BSMI1250-5R6MC	5.6	$\pm 20\%$	14	16.5	11.5	22
BSMI1250-6R8MC	6.8	$\pm 20\%$	15.4	18.5	11	21
BSMI1250-7R8MC	7.8	$\pm 20\%$	17.2	20.5	10	18
BSMI1250-8R2MC	8.2	$\pm 20\%$	18.9	22.5	9.5	18
BSMI1250-10RMC	10	$\pm 20\%$	21.4	25.5	9	16

BSMI1260

BW Part Number	Inductance (μ H)	Percent Tolerance	DCR		Irms (A)	Isat (A)
			Typ.m Ω	Max.m Ω		
BSMI1260-R10MC	0.1	$\pm 20\%$	0.47	0.5	60	120
BSMI1260-R15MC	0.15	$\pm 20\%$	0.53	0.6	55	118
BSMI1260-R22MC	0.22	$\pm 20\%$	0.63	0.7	53	112
BSMI1260-R30MC	0.3	$\pm 20\%$	0.7	0.8	48	72
BSMI1260-R33MC	0.33	$\pm 20\%$	0.83	0.9	46	65
BSMI1260-R40MC	0.4	$\pm 20\%$	0.9	1	44	64
BSMI1260-R47MC	0.47	$\pm 20\%$	1	1.2	41	63
BSMI1260-R56MC	0.56	$\pm 20\%$	1.2	1.4	37	62
BSMI1260-R68MC	0.68	$\pm 20\%$	1.4	1.6	35	60
BSMI1260-R82MC	0.82	$\pm 20\%$	1.6	1.9	33	50
BSMI1260-1R0MC	1	$\pm 20\%$	1.7	2	32	49
BSMI1260-1R2MC	1.2	$\pm 20\%$	2.1	2.5	30	48
BSMI1260-1R5MC	1.5	$\pm 20\%$	2.5	3	27	45
BSMI1260-1R8MC	1.8	$\pm 20\%$	2.8	3.2	24	41
BSMI1260-2R2MC	2.2	$\pm 20\%$	3.5	4.2	22	40
BSMI1260-3R3MC	3.3	$\pm 20\%$	5.7	6.8	18	35
BSMI1260-4R7MC	4.7	$\pm 20\%$	8	8.7	13.5	32
BSMI1260-5R6MC	5.6	$\pm 20\%$	9.3	10	13.5	32
BSMI1260-6R8MC	6.8	$\pm 20\%$	13.1	14	11.5	16.5
BSMI1260-8R2MC	8.2	$\pm 20\%$	14.5	15.5	10.5	16
BSMI1260-10RMC	10	$\pm 20\%$	16.4	17.2	10	15.5

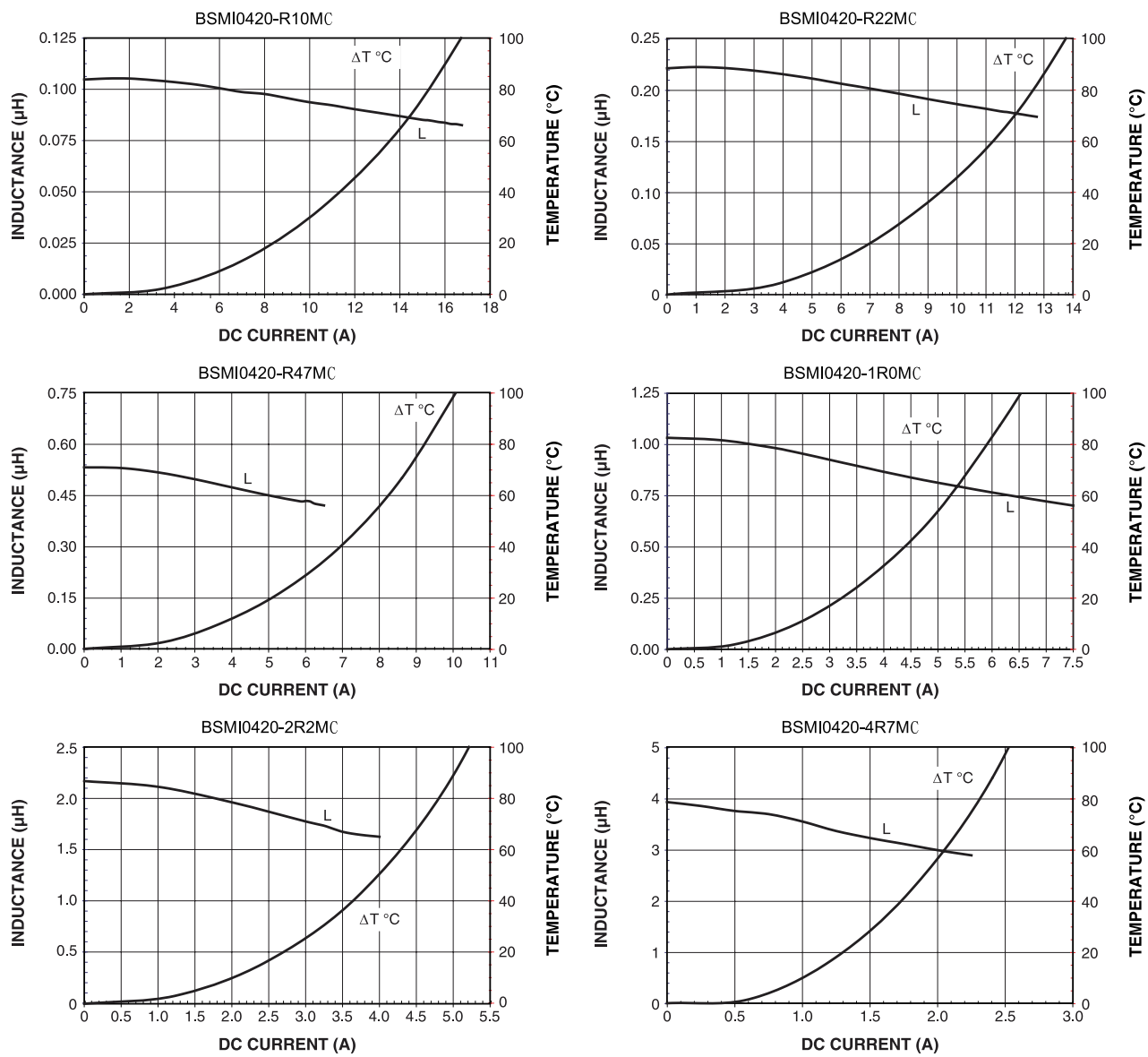


Power Inductor

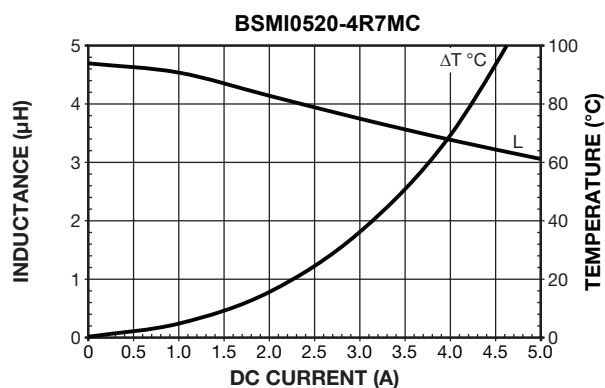
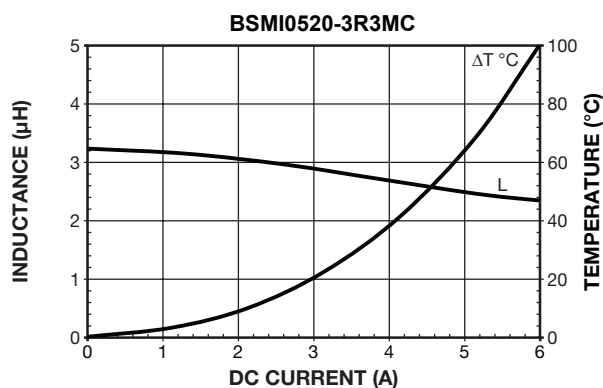
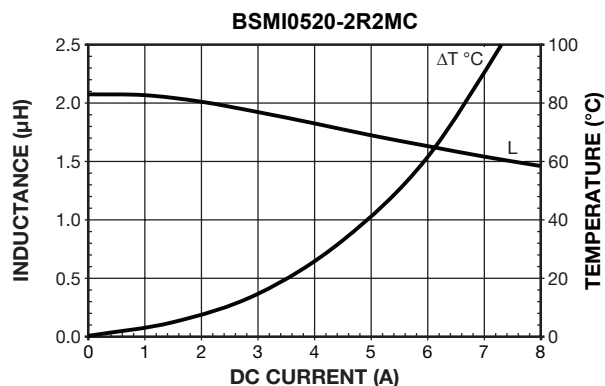
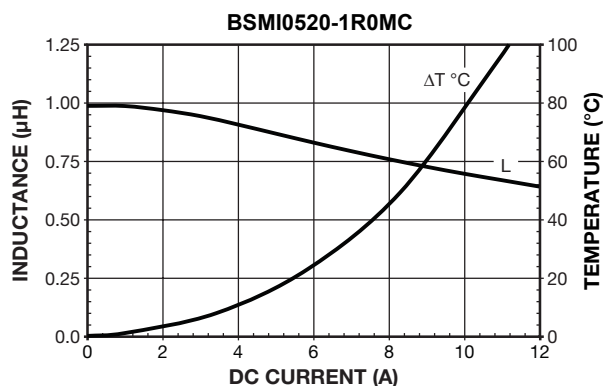
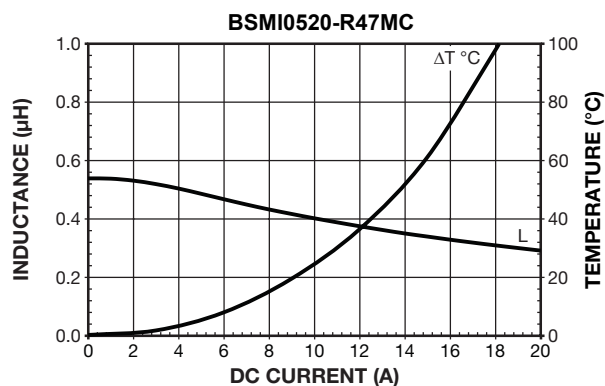
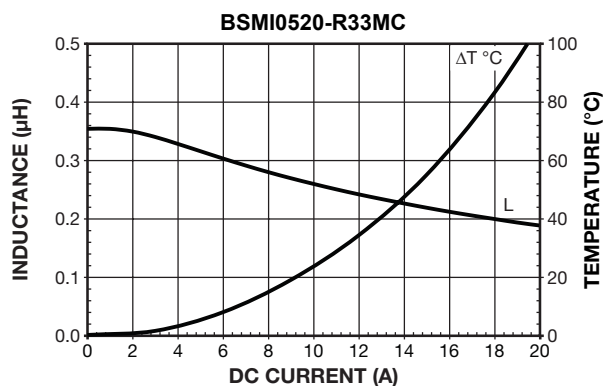
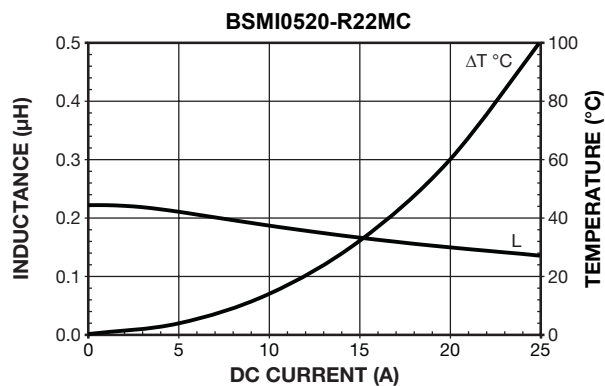
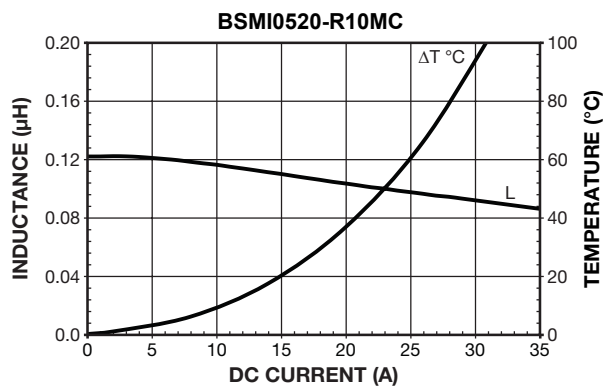
SMD /Molding Type



BSMI0420



BSMI0520



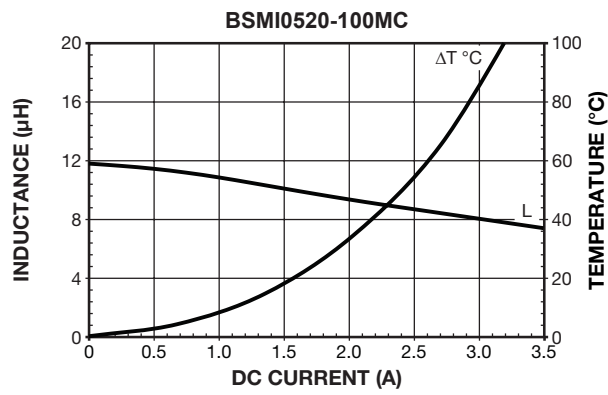
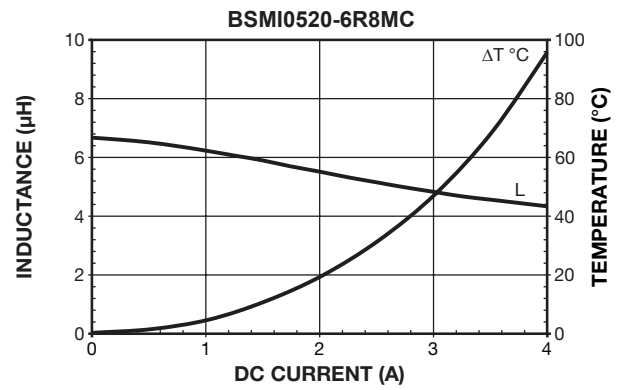
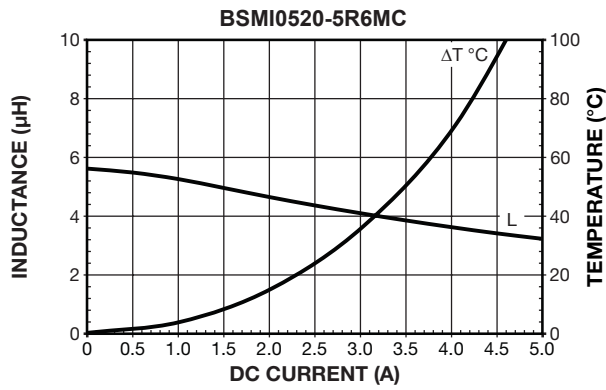


Power Inductor

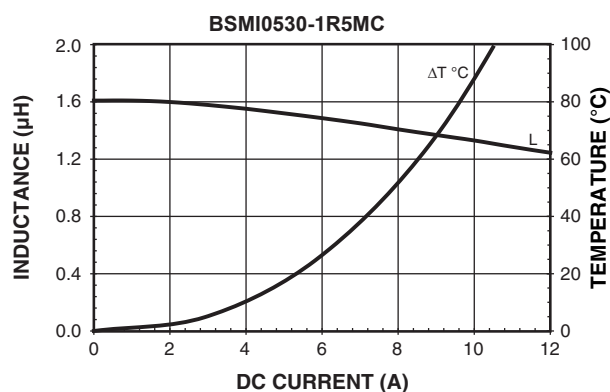
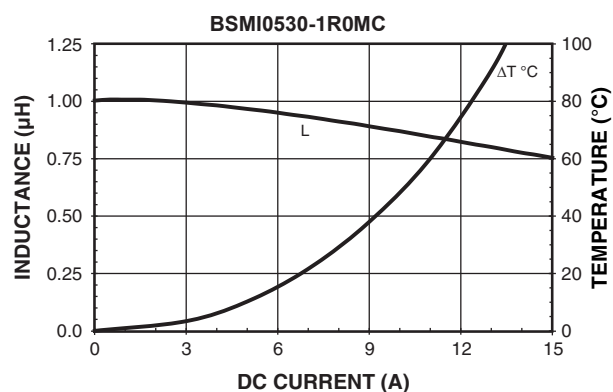
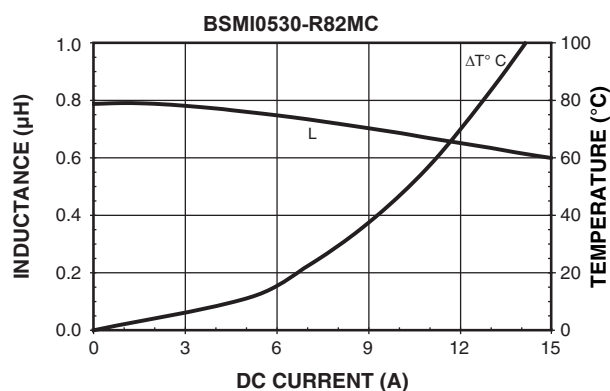
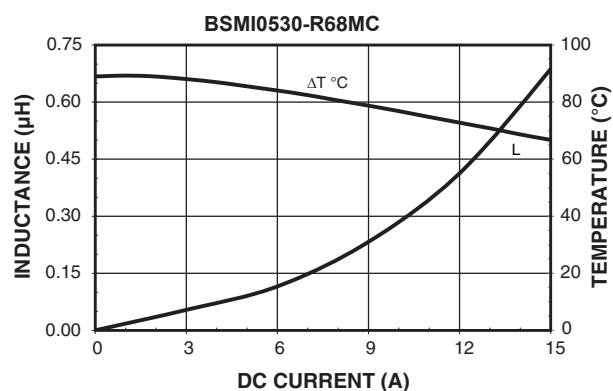
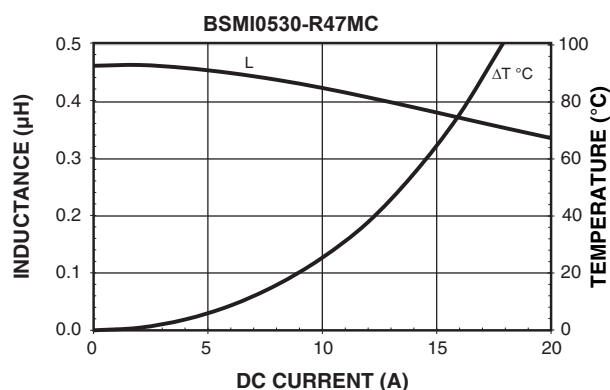
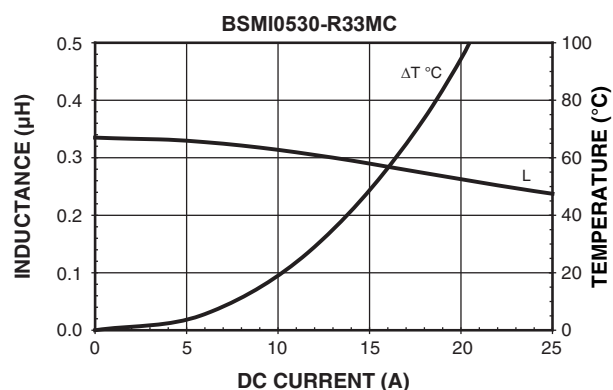
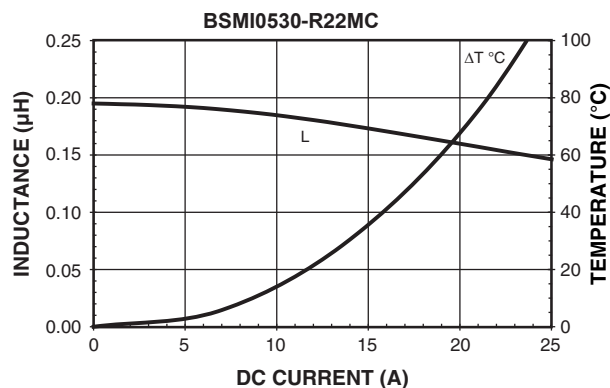
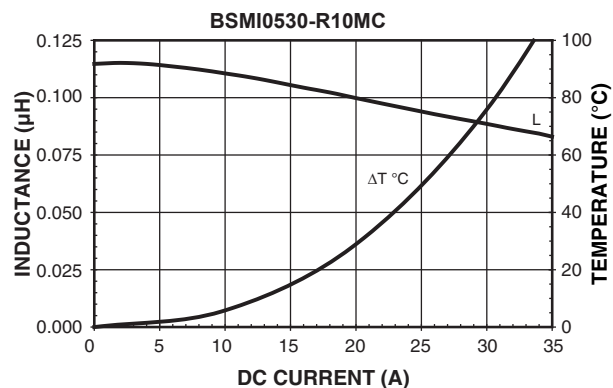
SMD /Molding Type



BSMI0520

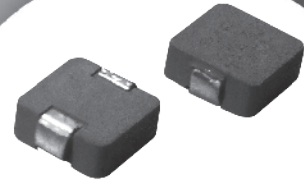


BSMI0530

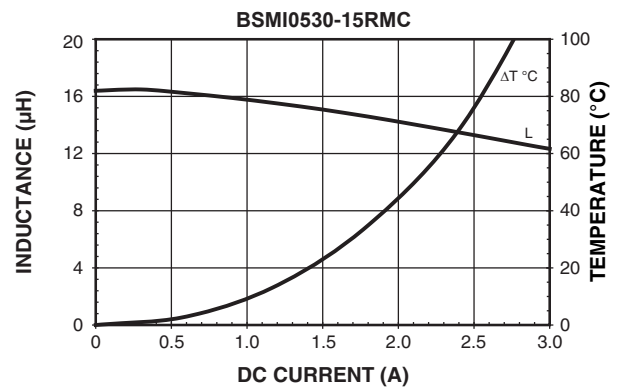
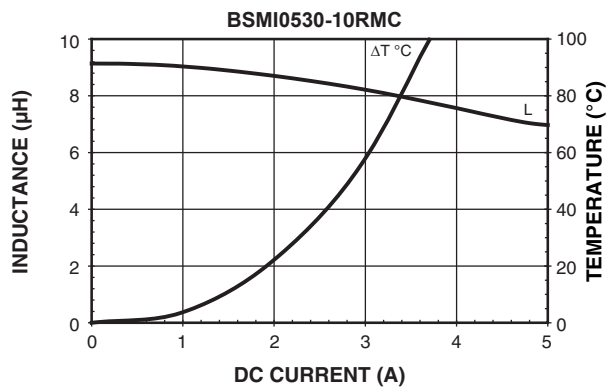
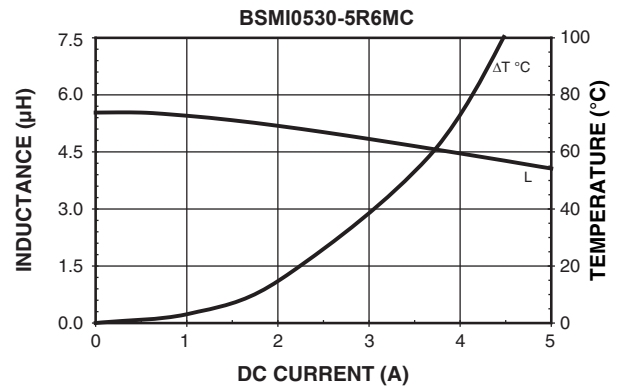
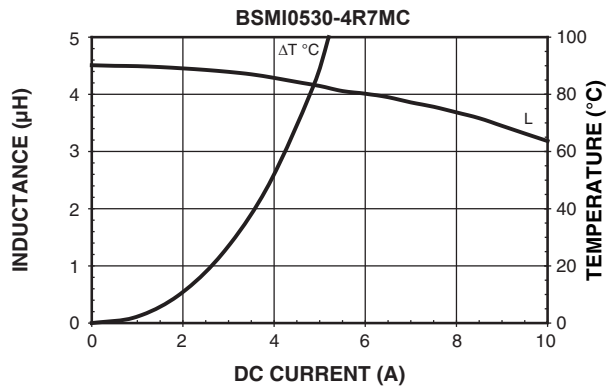
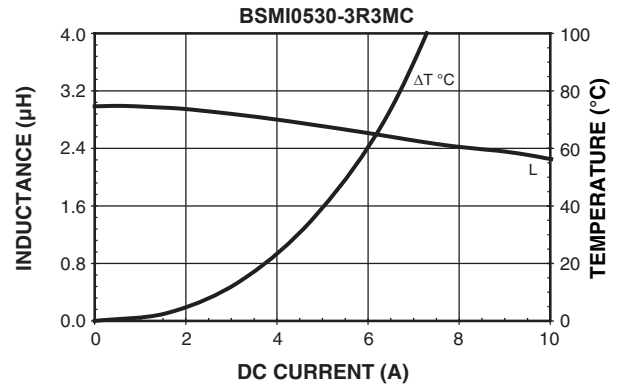
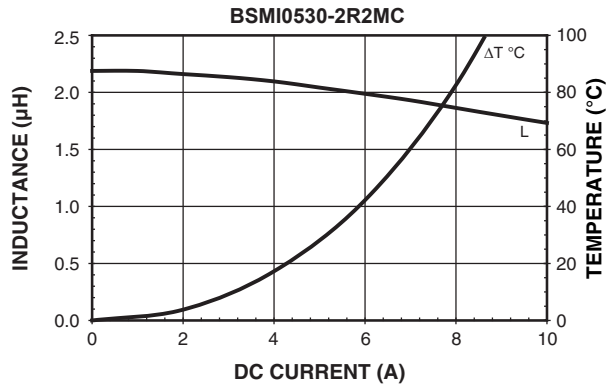


Power Inductor

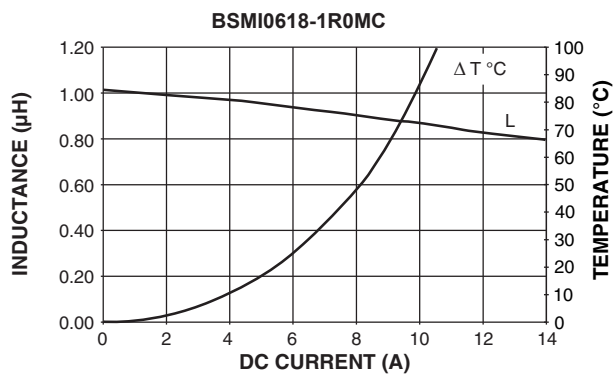
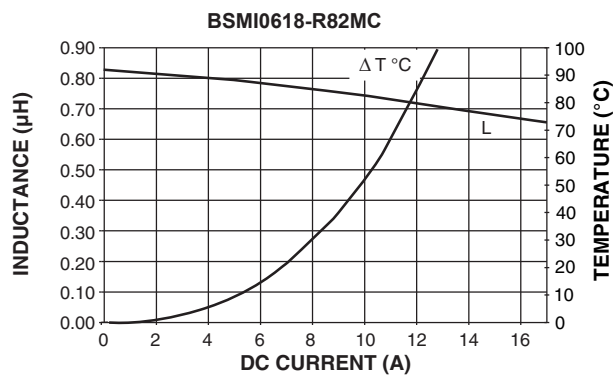
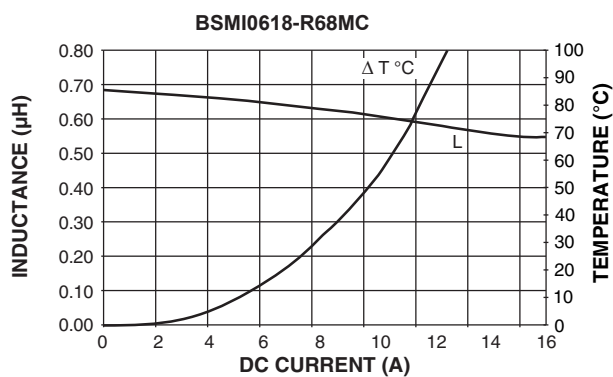
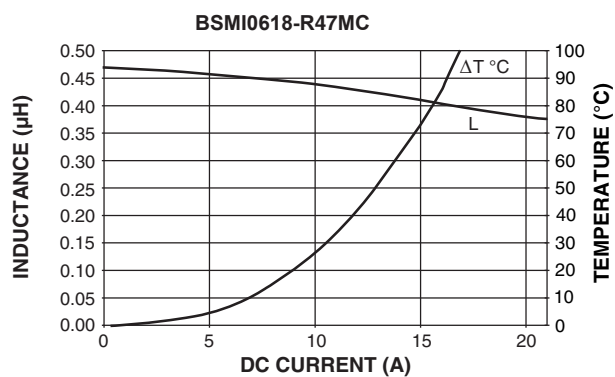
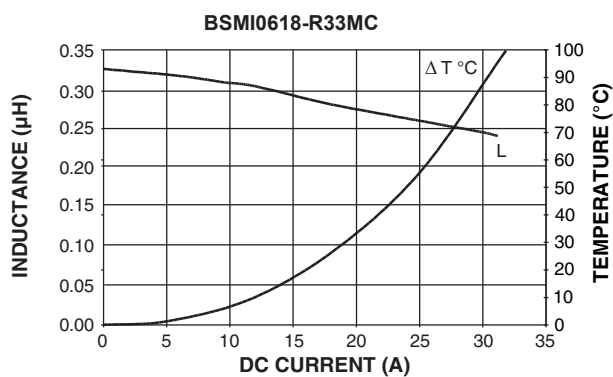
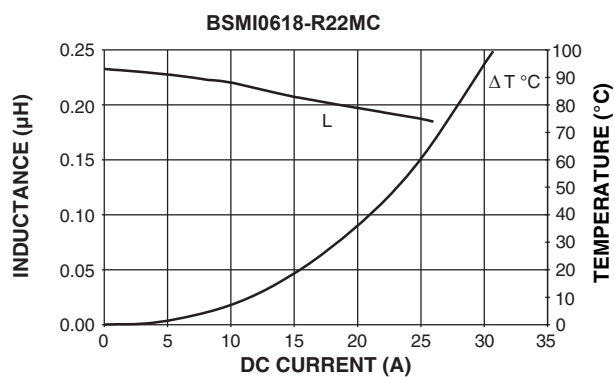
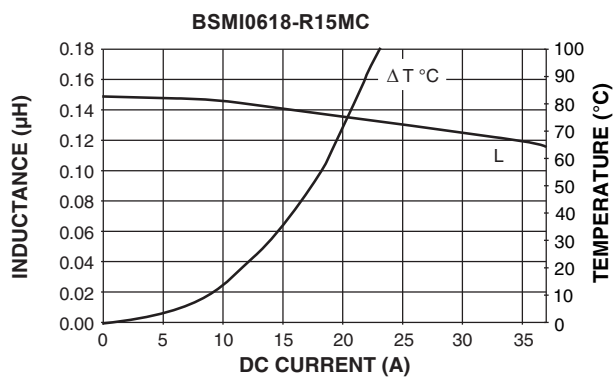
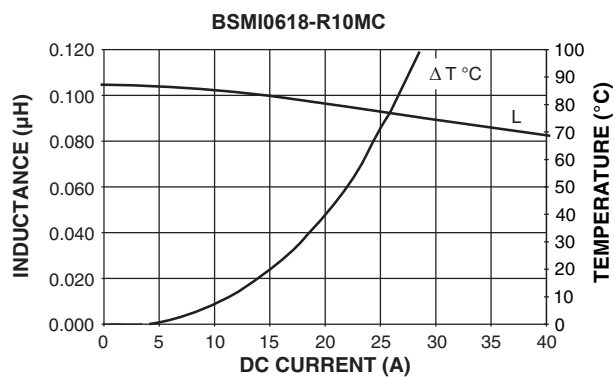
SMD / Molding Type



BSMI0530



BSMI0618



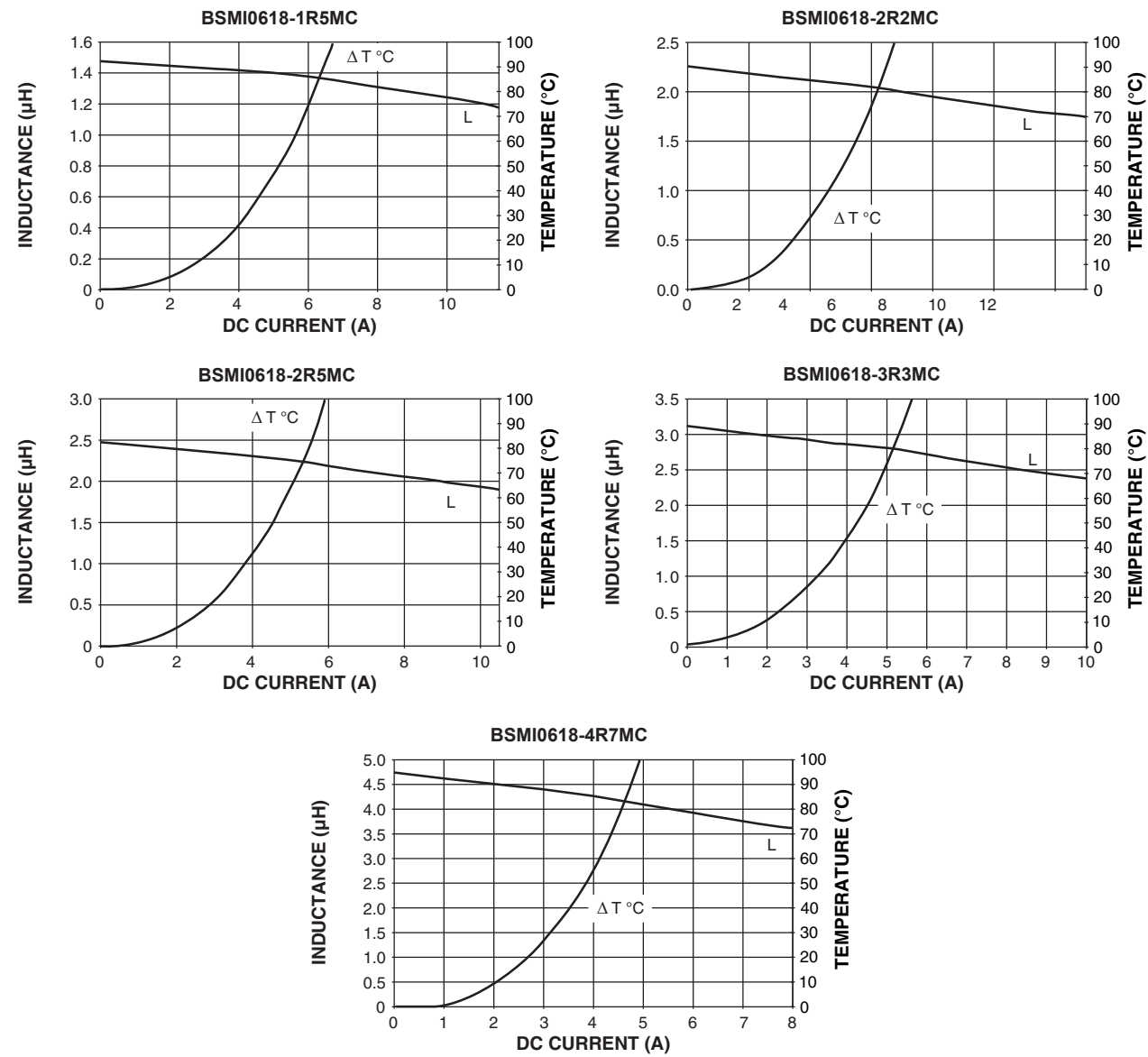


Power Inductor

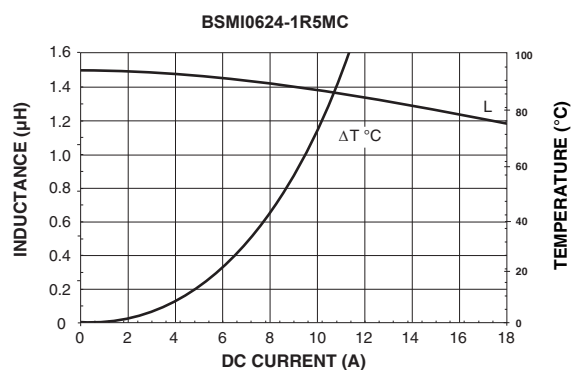
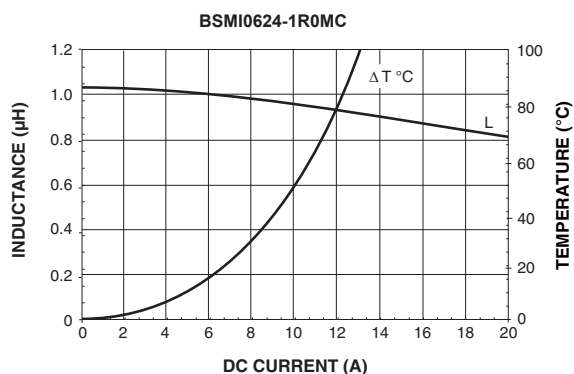
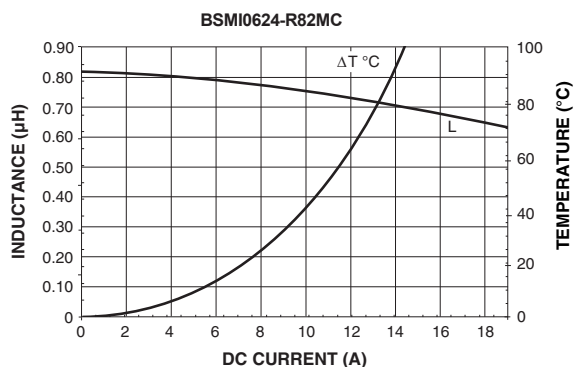
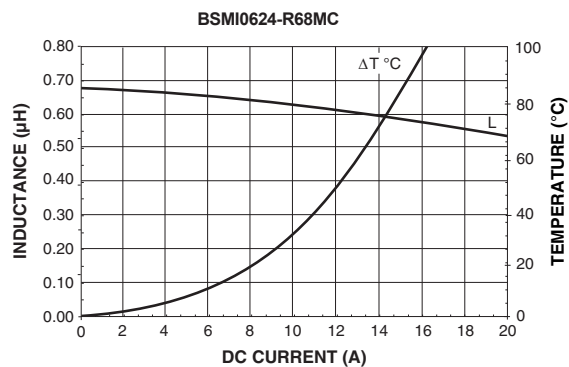
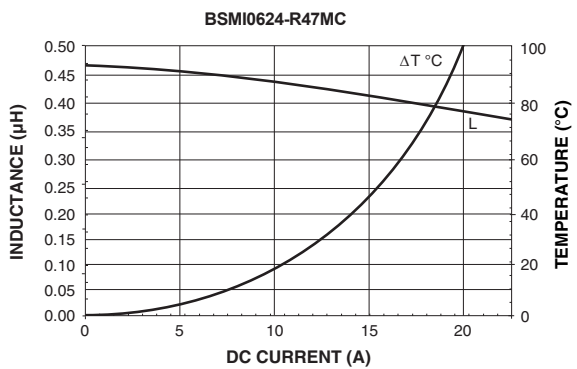
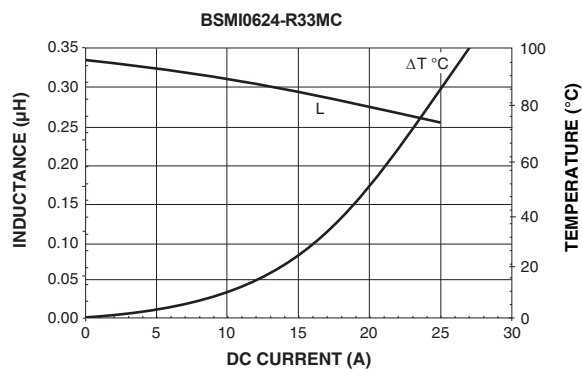
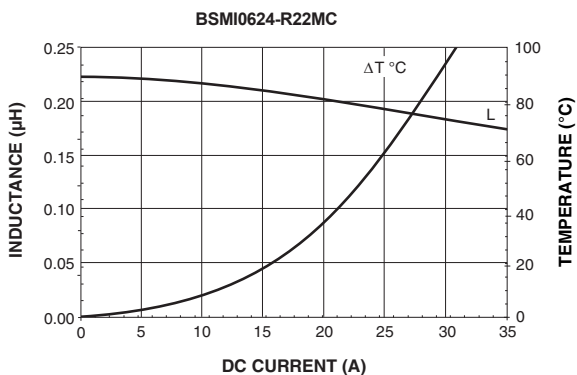
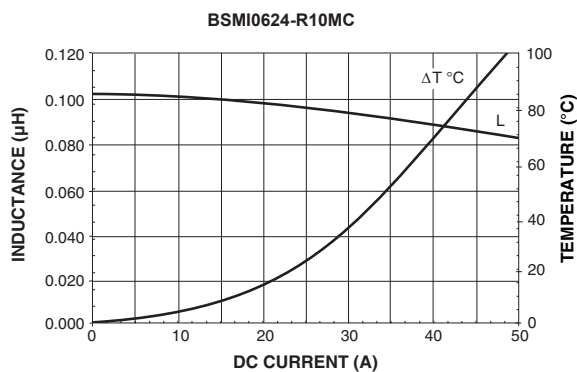
SMD /Molding Type



BSMI0618



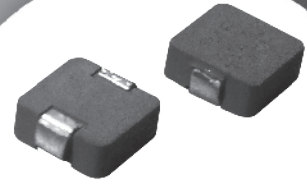
BSMI0624



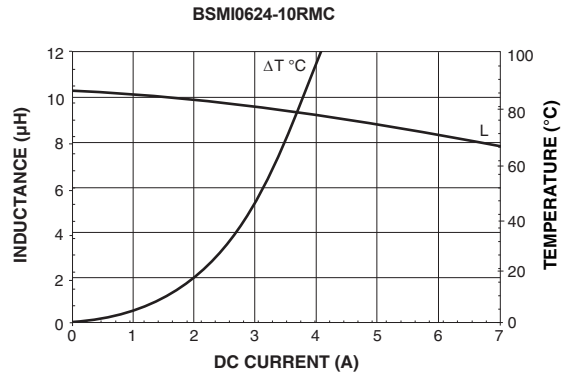
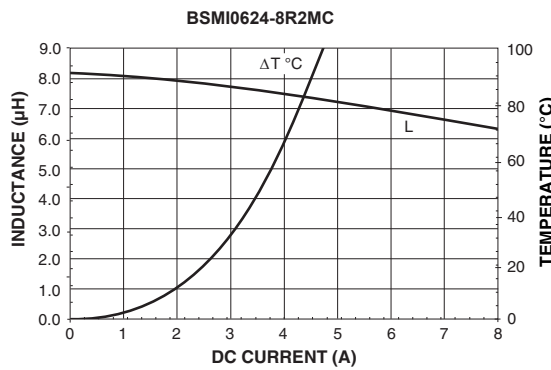
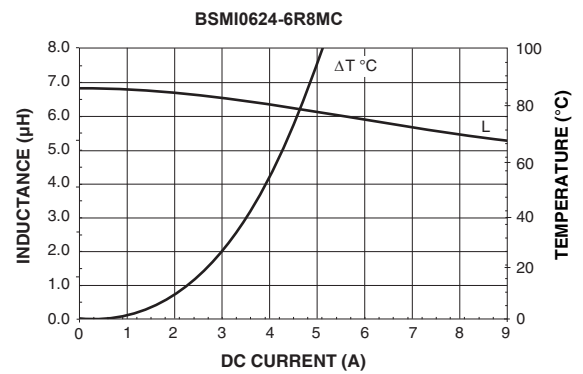
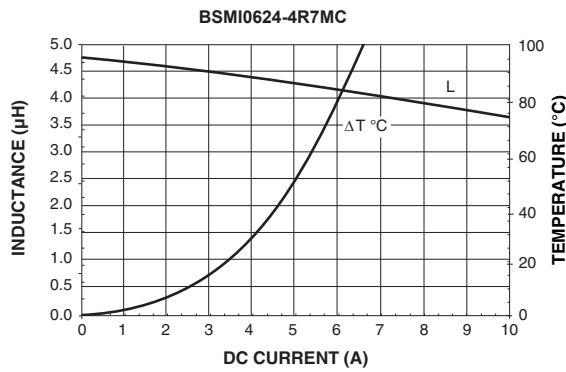
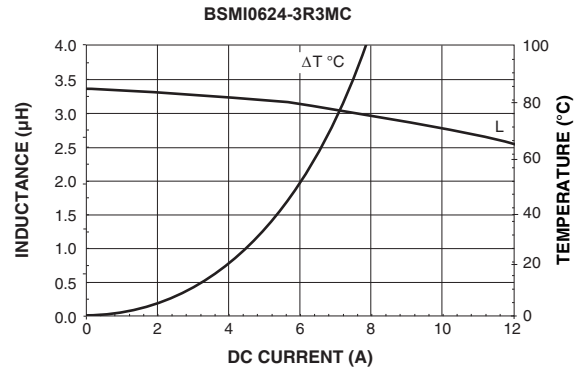
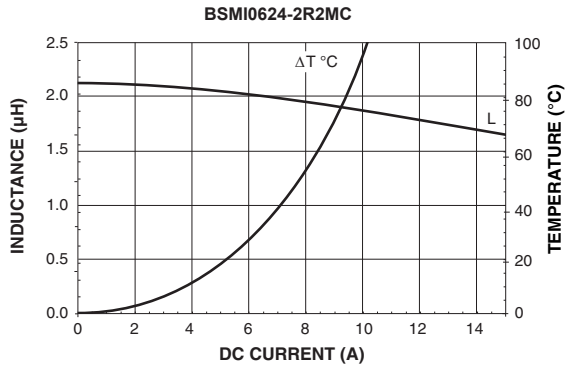


Power Inductor

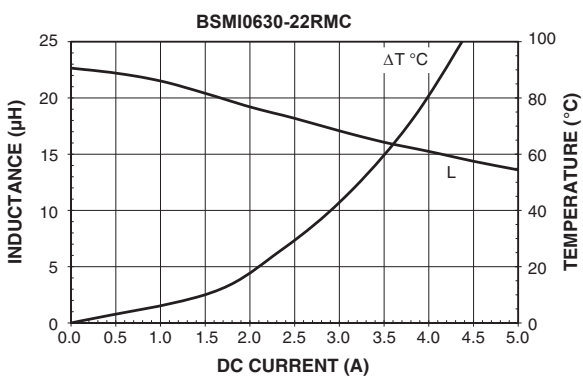
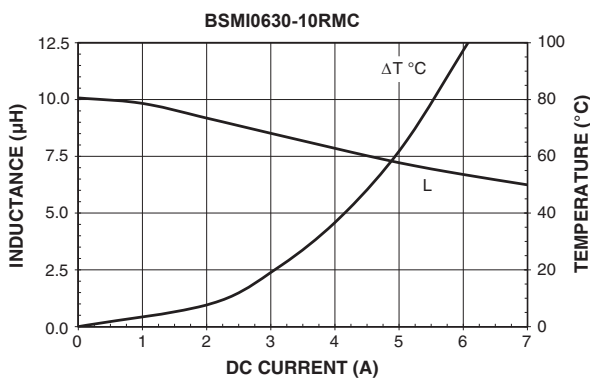
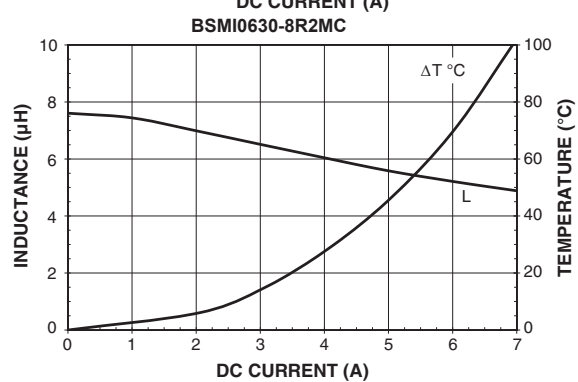
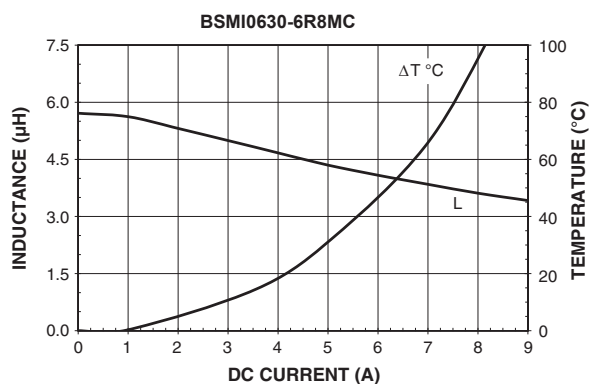
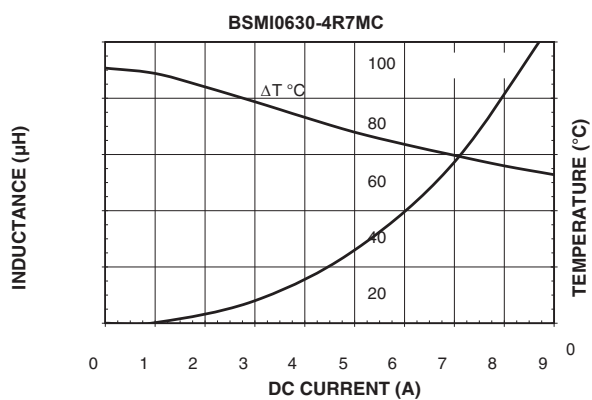
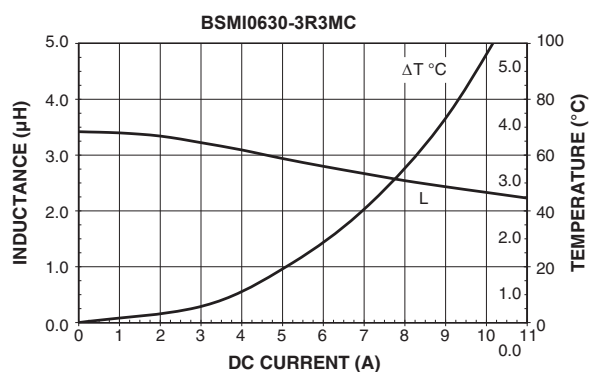
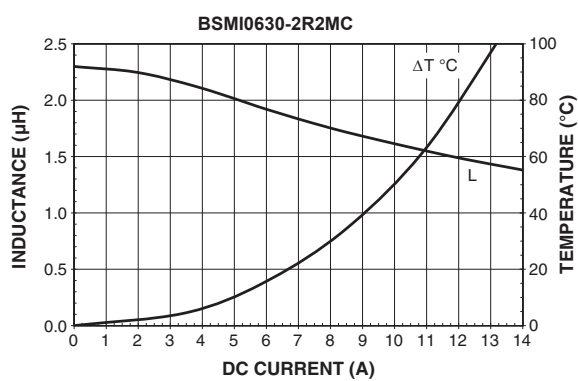
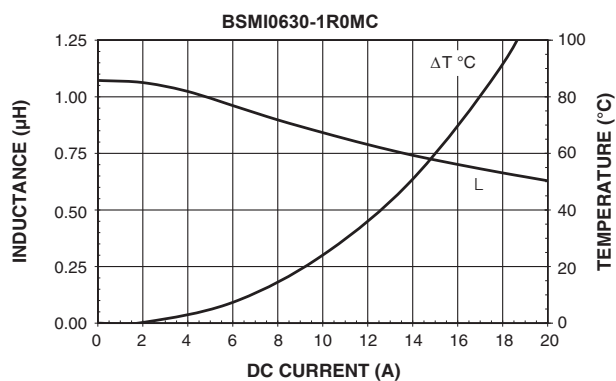
SMD /Molding Type



BSMI0624



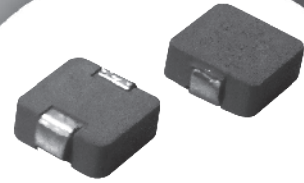
BSMI0630



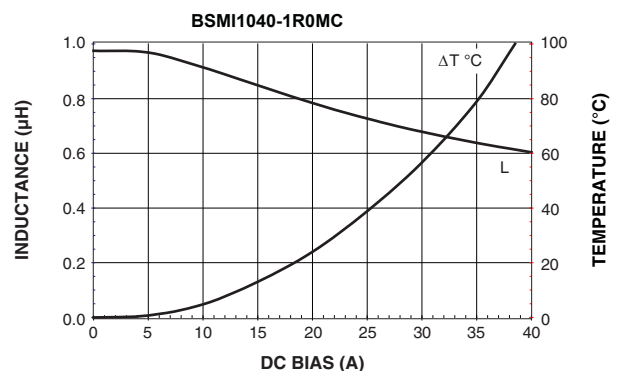
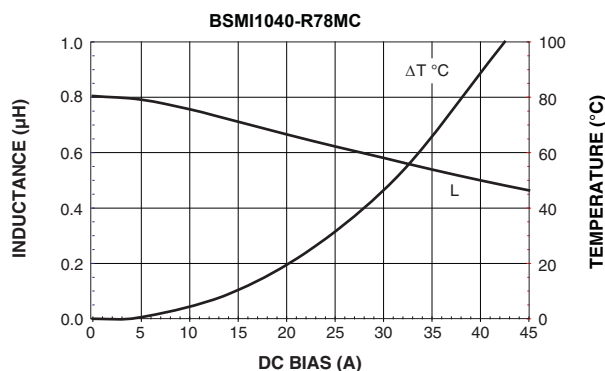
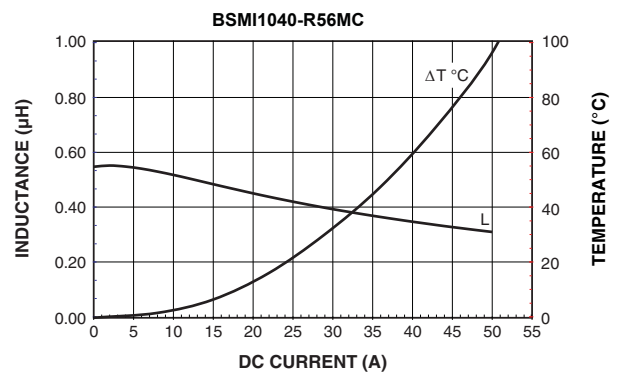
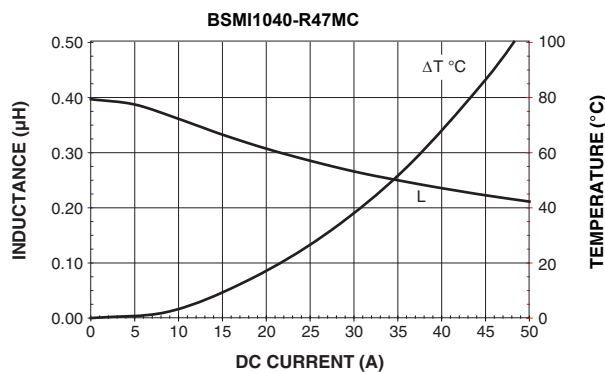
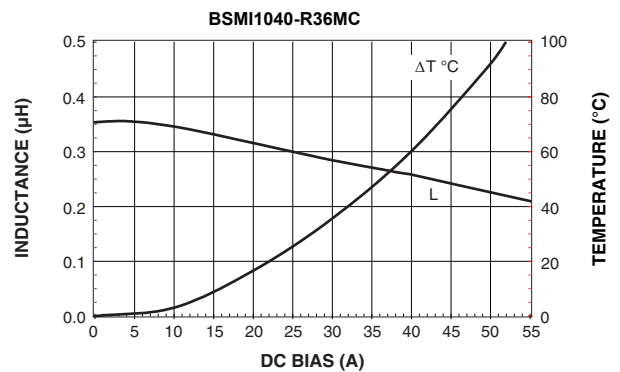
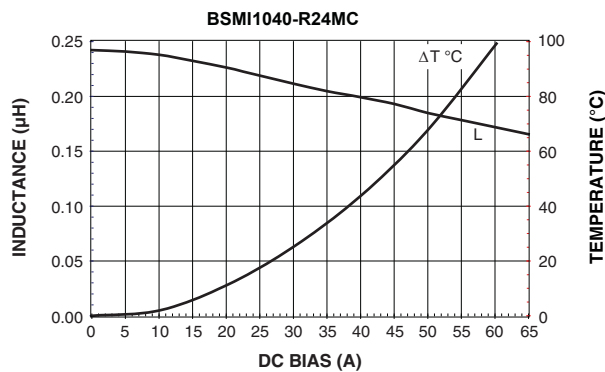
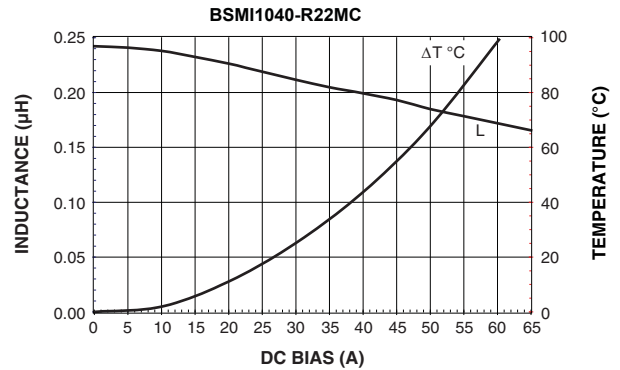
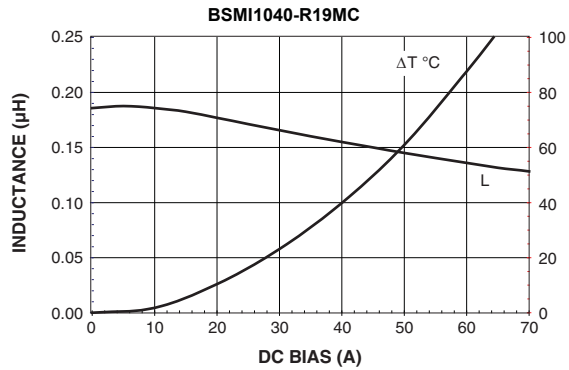


Power Inductor

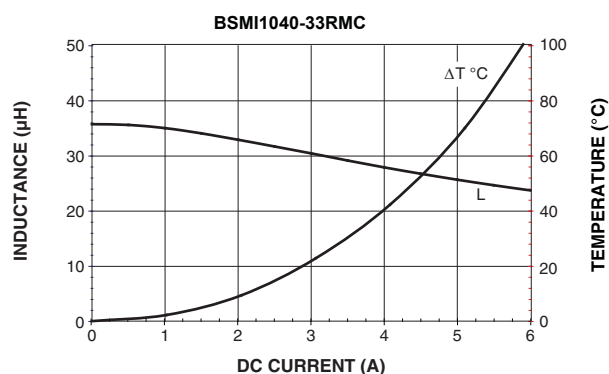
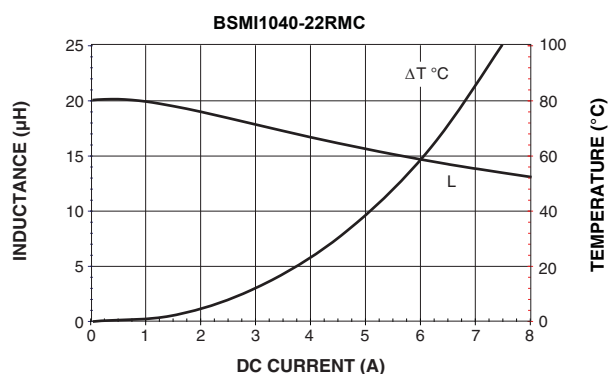
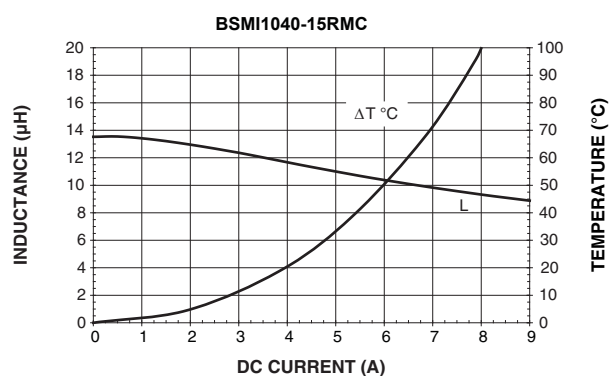
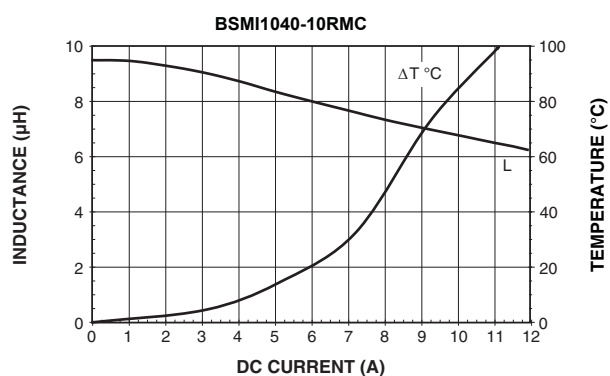
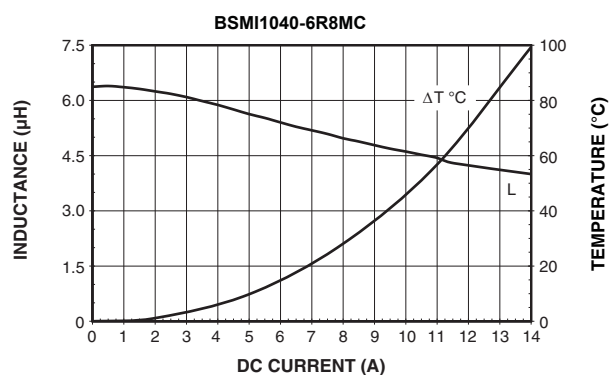
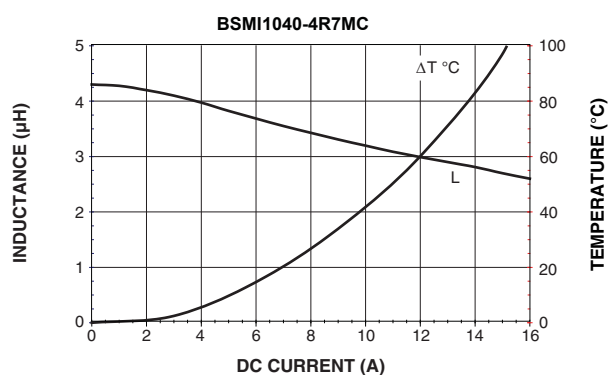
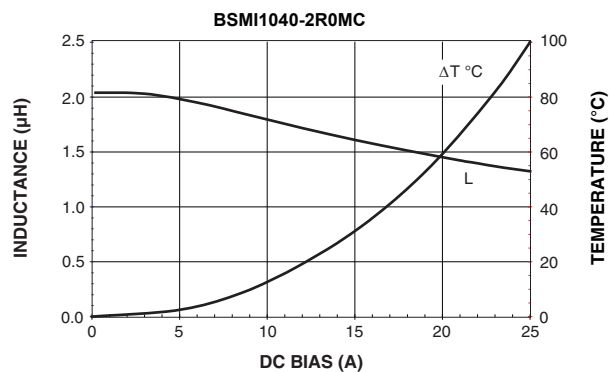
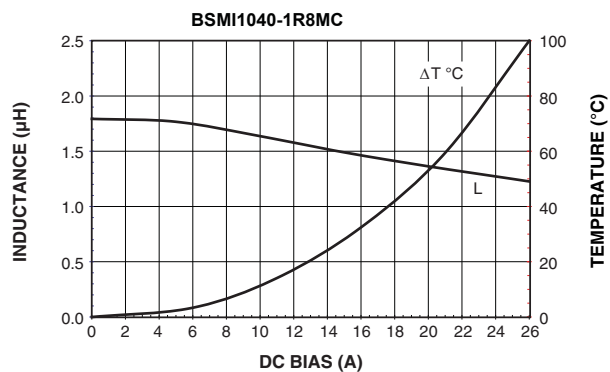
SMD / Molding Type



BSMI1040



BSMI1040



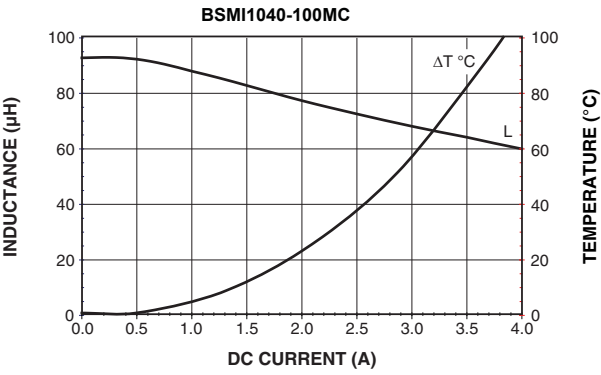
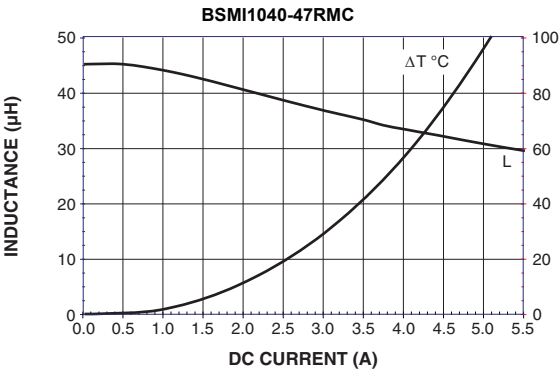


Power Inductor

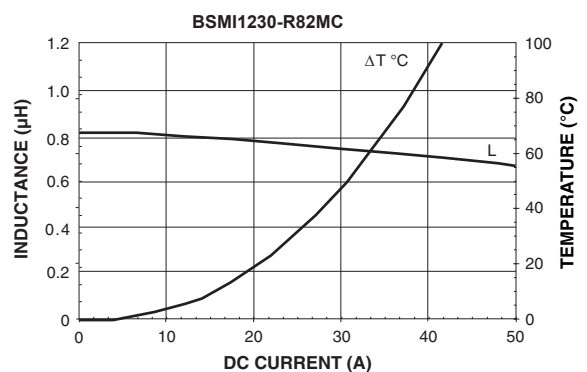
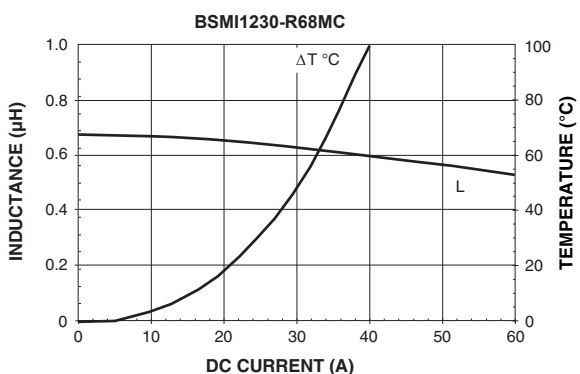
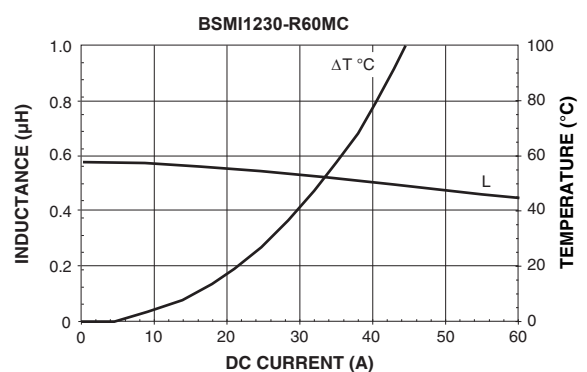
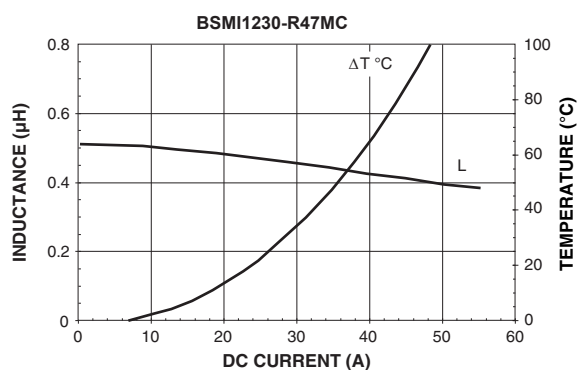
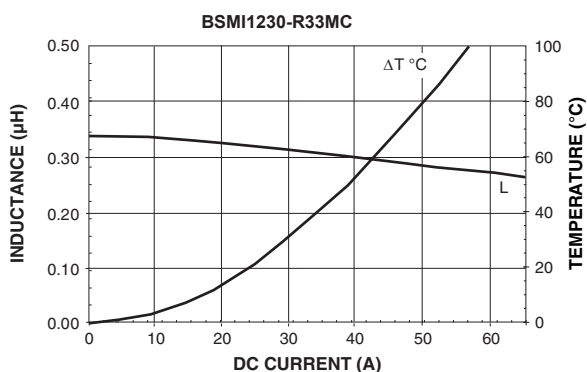
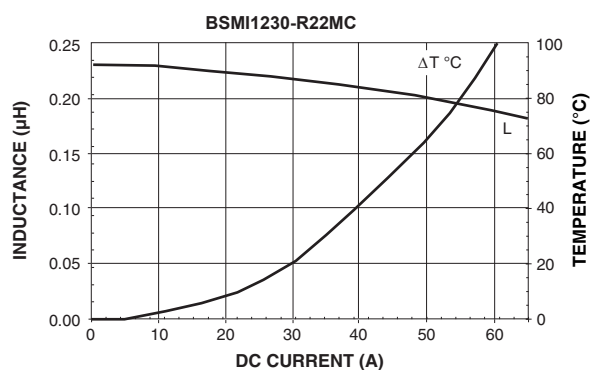
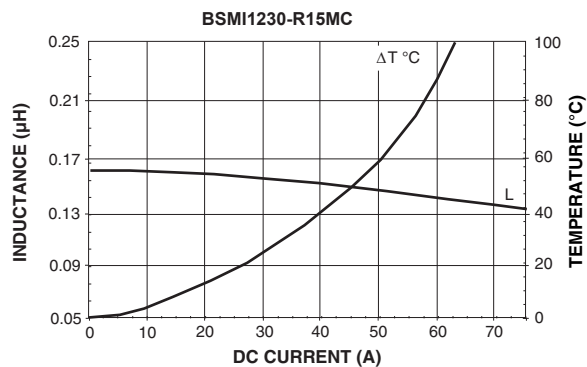
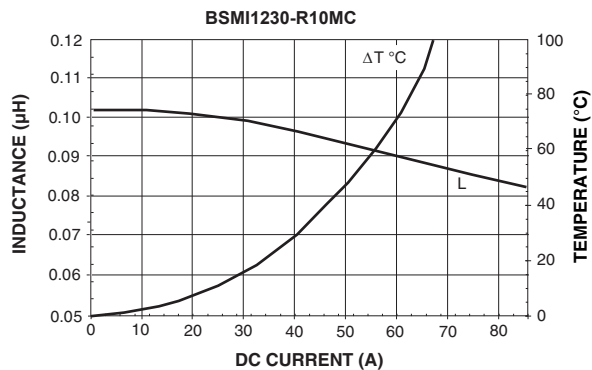
SMD /Molding Type



BSMI1040

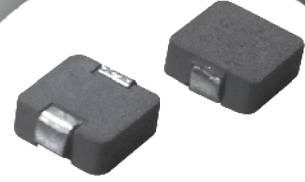


BSMI1230

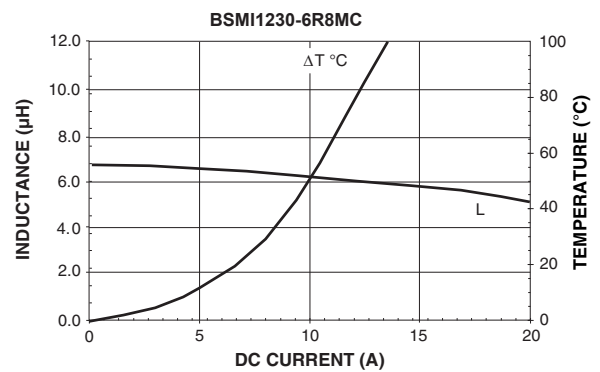
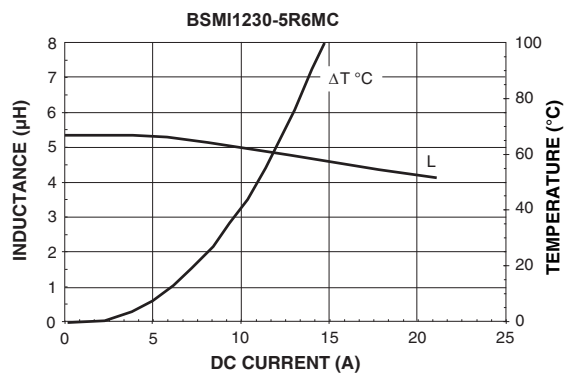
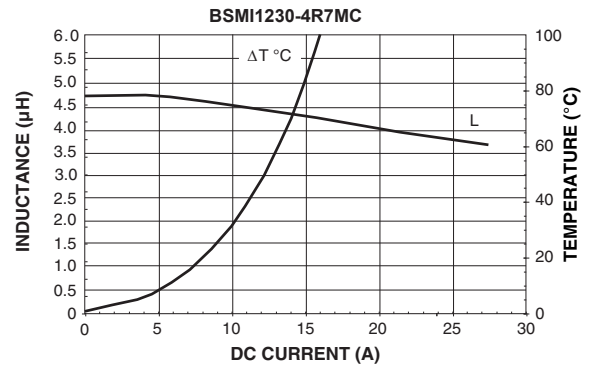
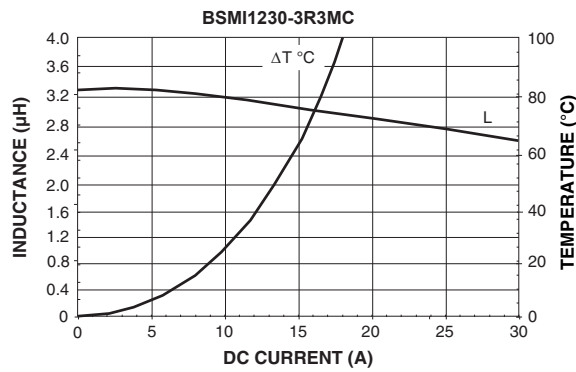
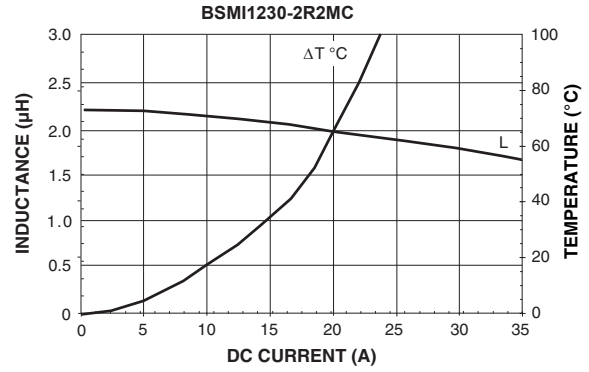
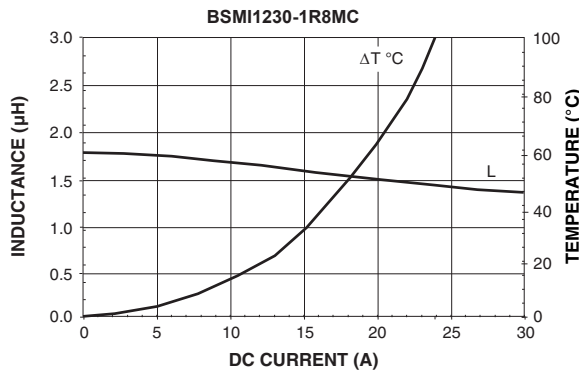
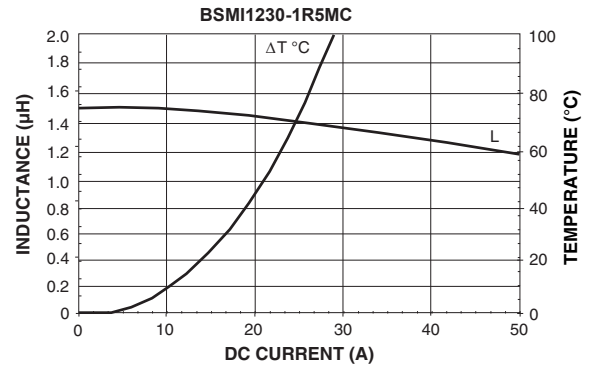
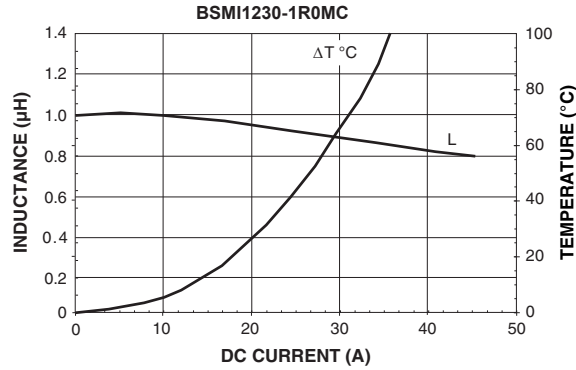


Power Inductor

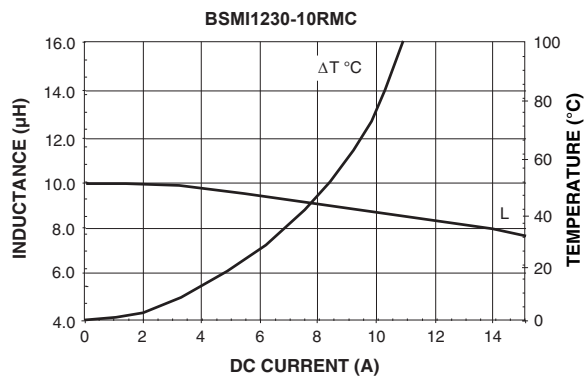
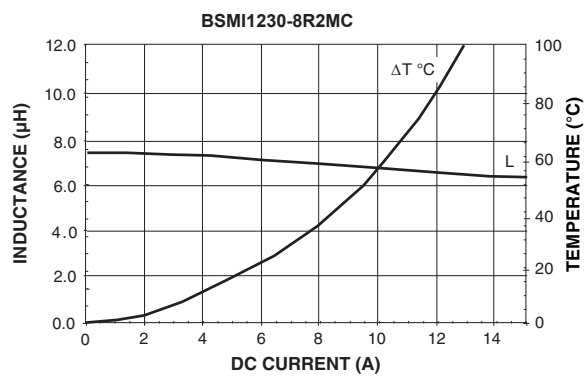
SMD / Molding Type



BSMI1230

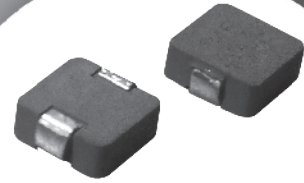


BSMI1230

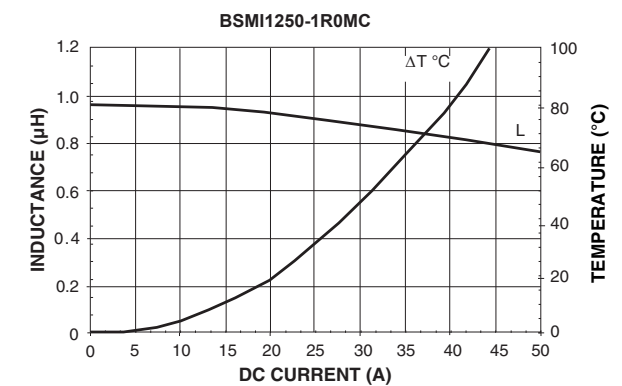
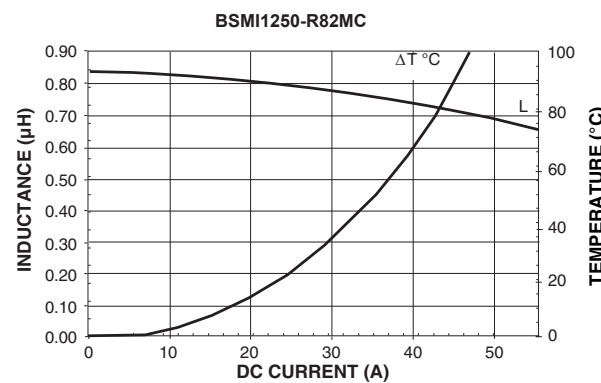
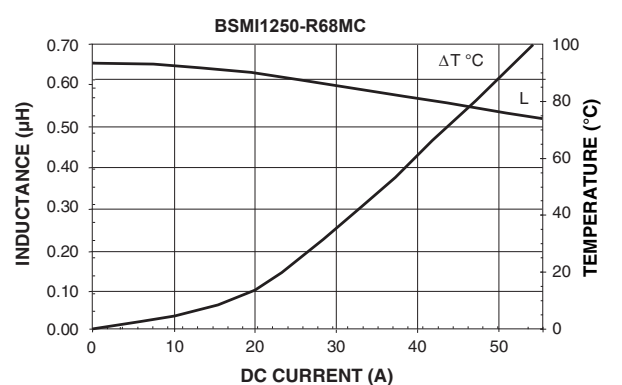
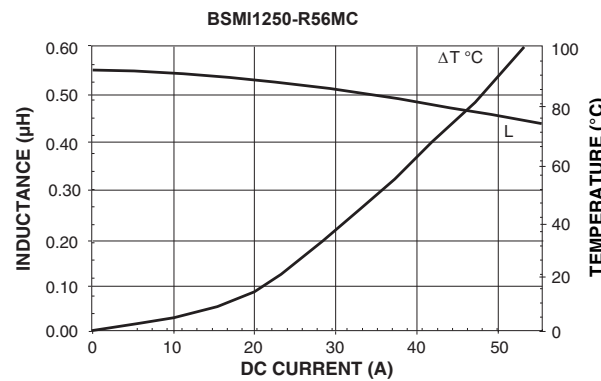
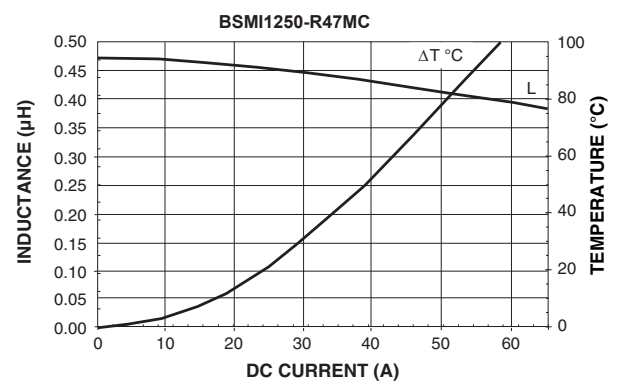
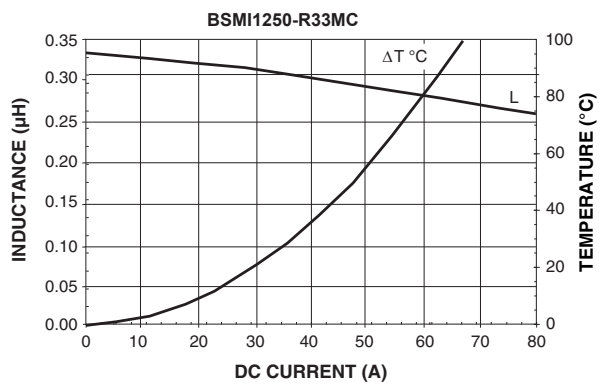
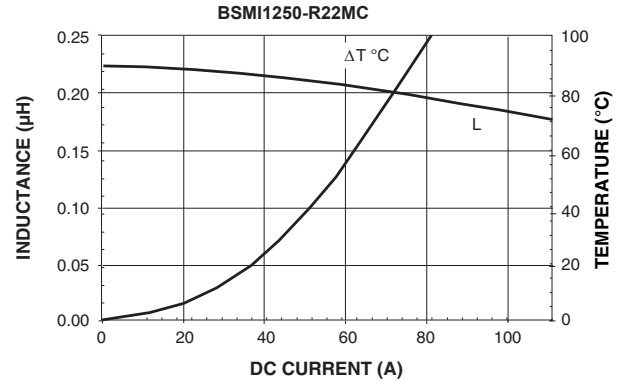
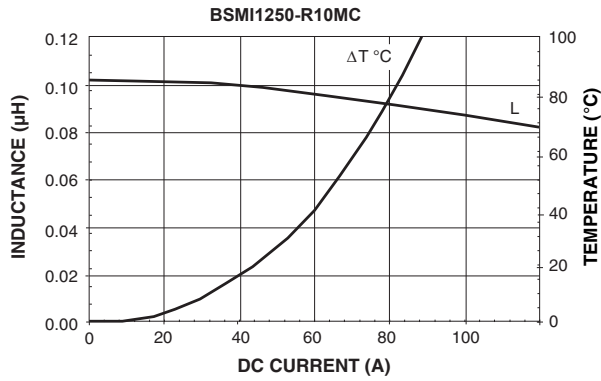


Power Inductor

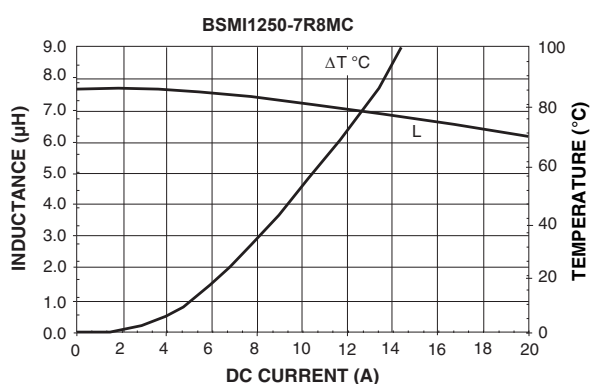
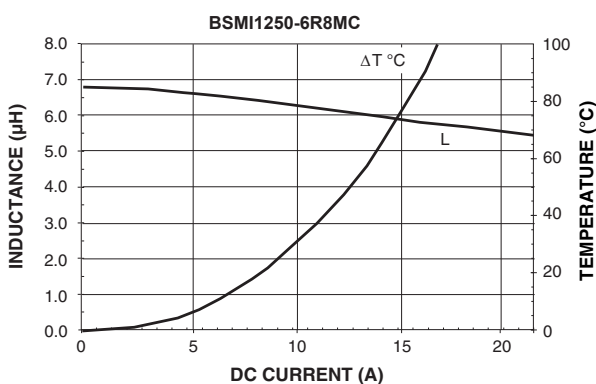
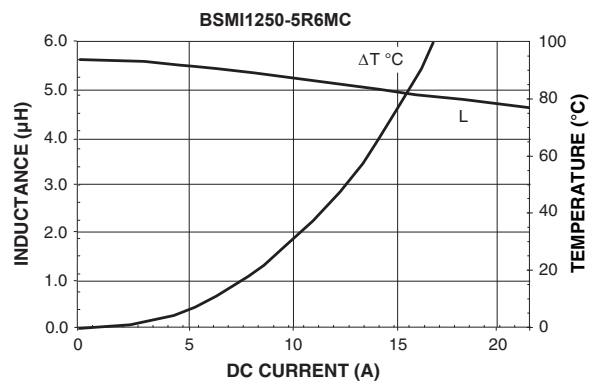
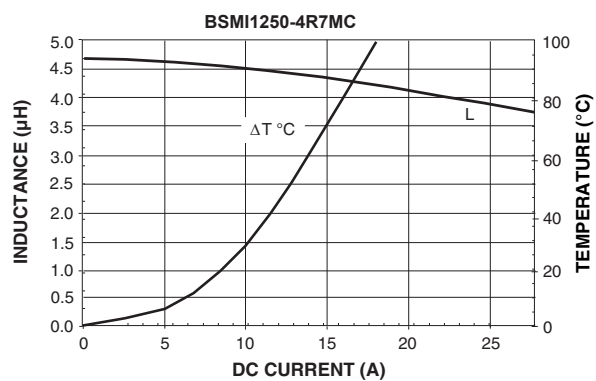
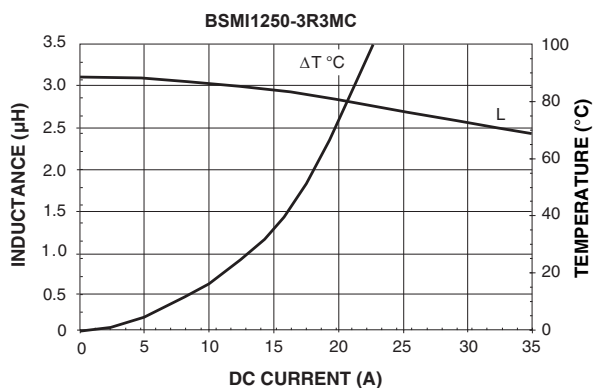
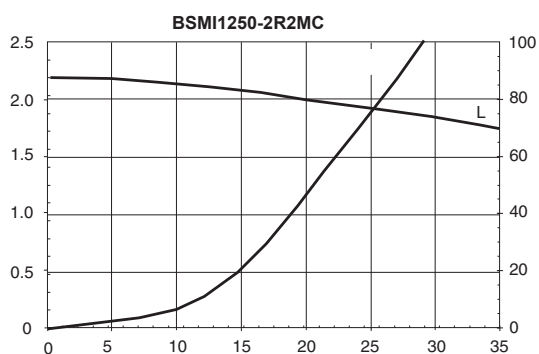
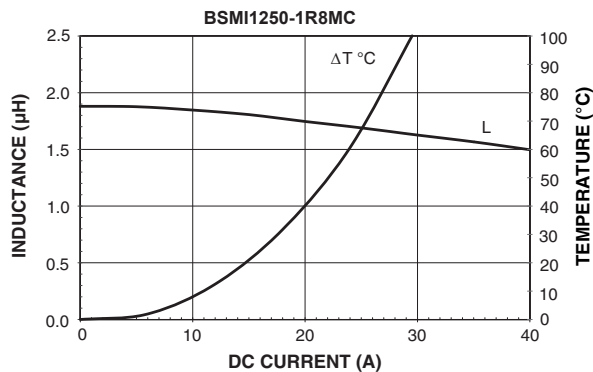
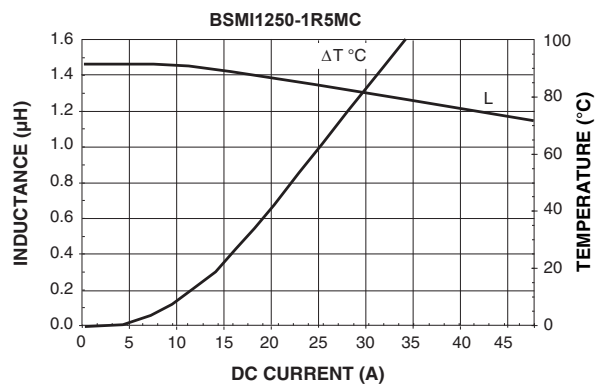
SMD / Molding Type



BSMI1250



BSMI1250



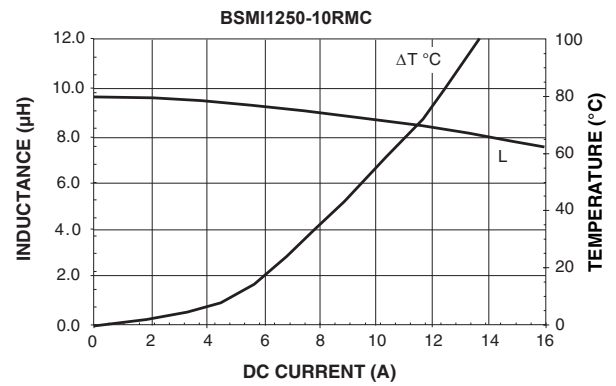
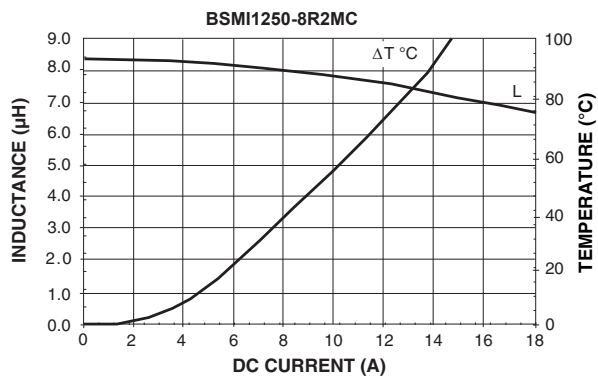


Power Inductor

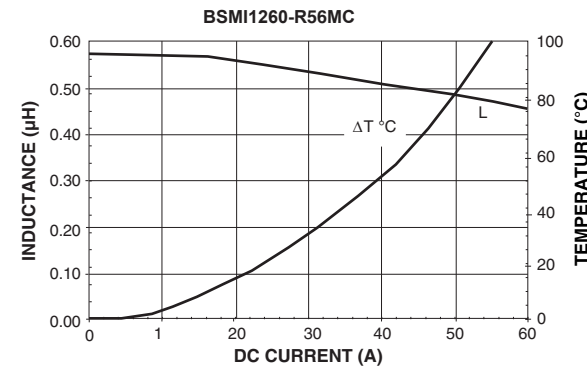
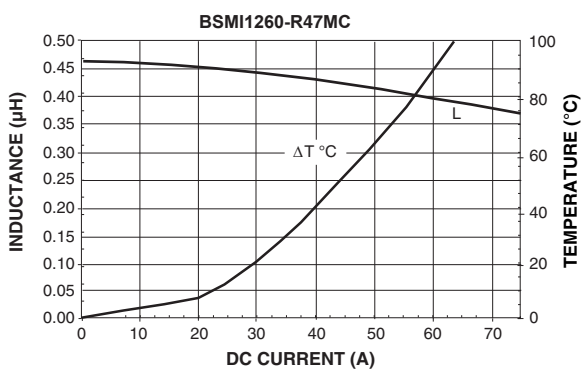
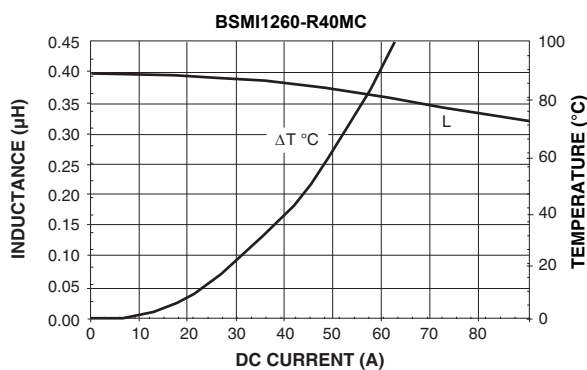
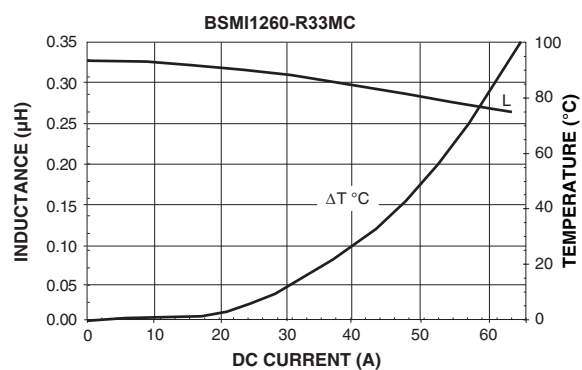
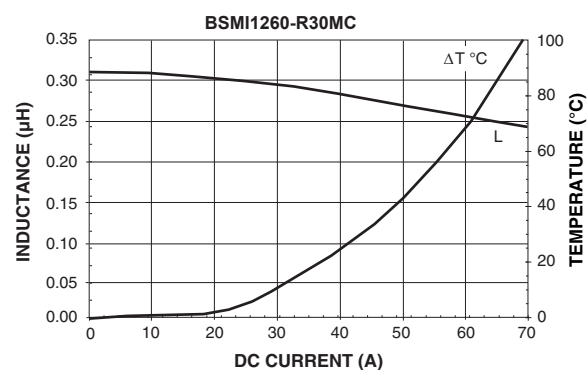
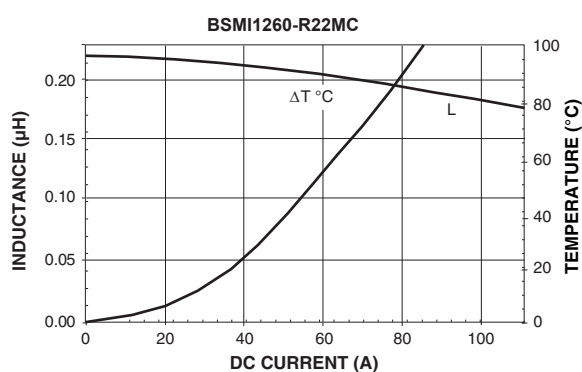
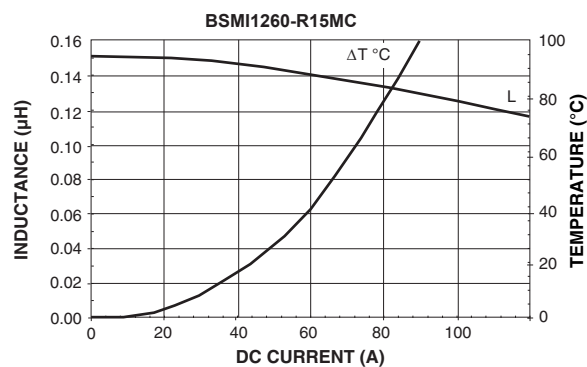
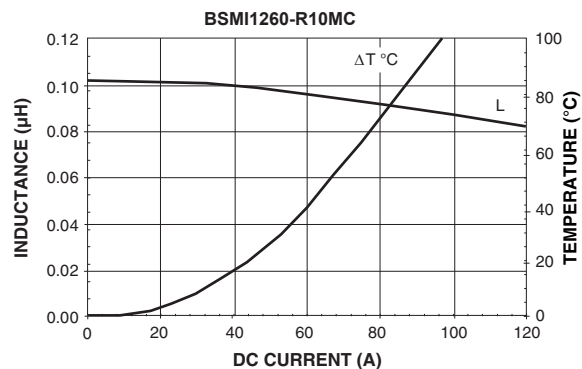
SMD /Molding Type



BSMI1250



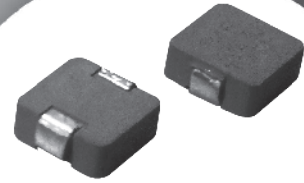
BSMI1260



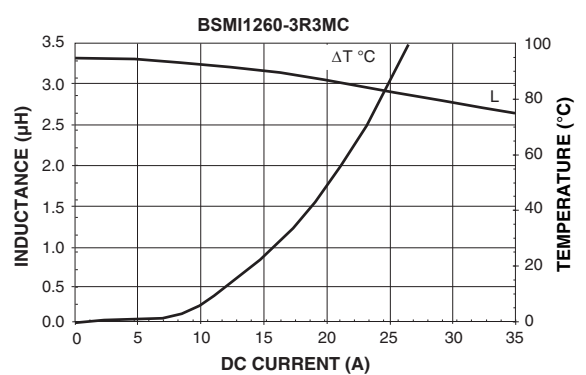
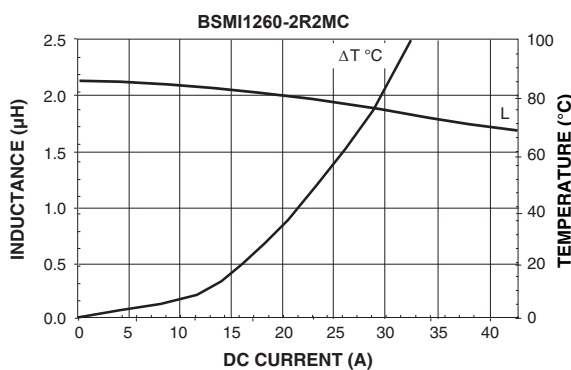
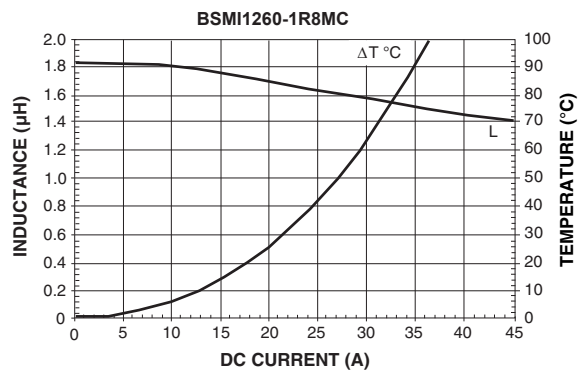
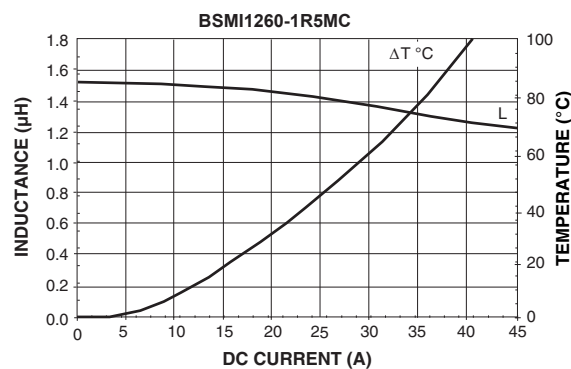
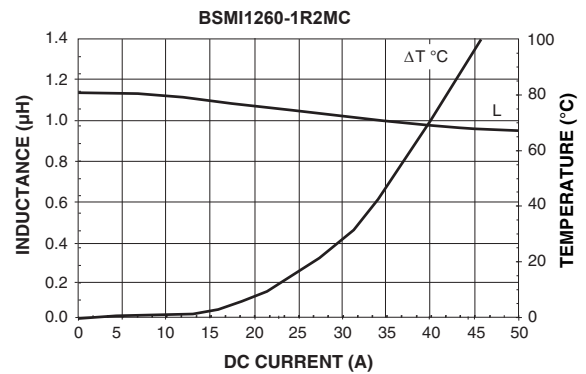
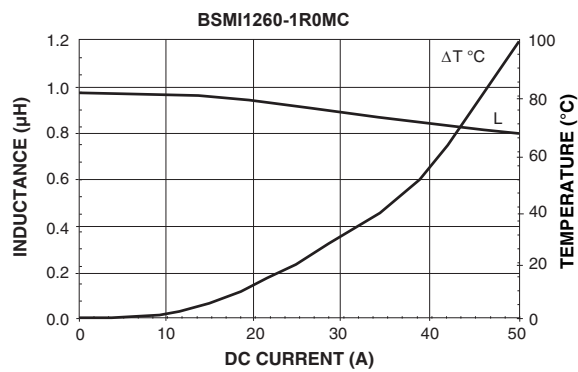
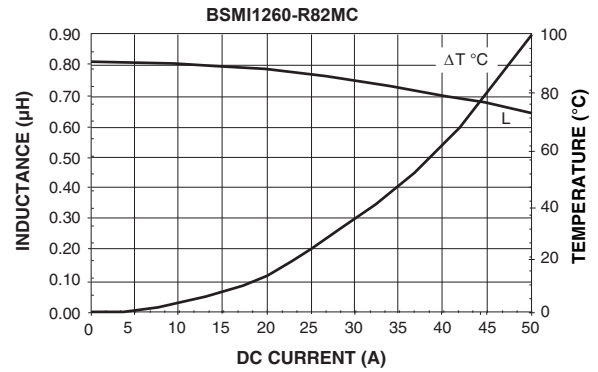
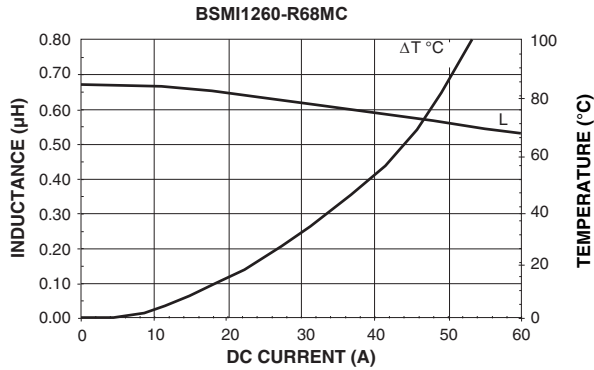


Power Inductor

SMD / Molding Type



BSMI1260



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