

SPECIFICATION OF BSF□□□□CDKC ,CRKC SERIES

FEATURES

1. High saturation current inductor with ferrite core and magnetic shielding design.
2. Low profile : Surface mounting(SMT) type and thickness with 2.0 to 5.0 mm for different size.
3. Low loss realized with low DCR.
4. Halogen free, lead free, RoHS compliant



APPLICATIONS

1. D/D converter unit design for 3C products, VRM for server.
2. DVD, HDD, STB, LCD display, IP CAM, GPS, USB connector, Smart phones, Face Recognition System, IoT application...etc

ORDERING CODE

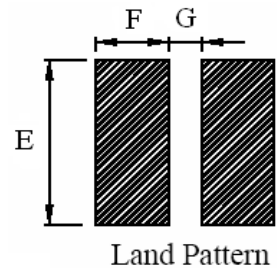
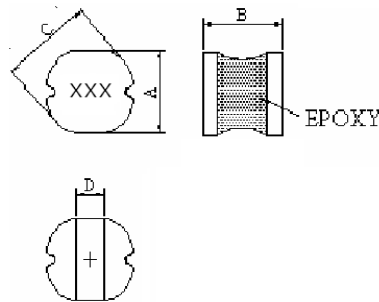
BSF0302CDKC 2R2 M T
 (1) (2) (3) (4)

(1) PRODUCT TYPE CODE AND SIZE CODE(CRKC with lower resistance and CDKC with high saturation current design)

(2) INDUCTANCE

(3) INDUCTANCE TOLERANCE (K : ±10%, M : ±20%)

(4) REEL TAPING



SHAPE & DIMENSIONS

UNIT:mm

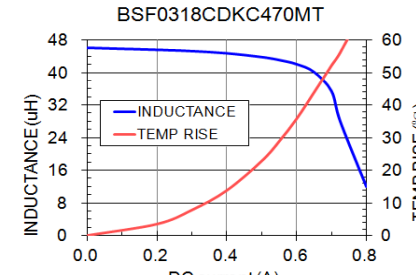
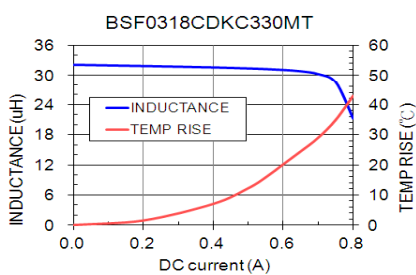
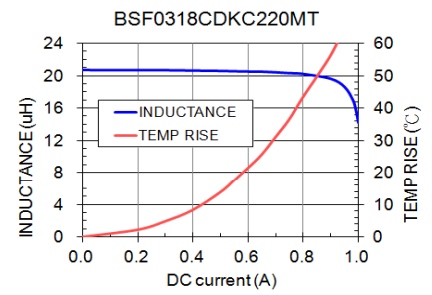
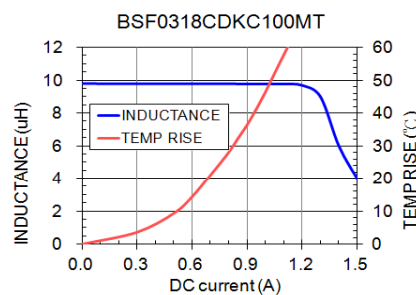
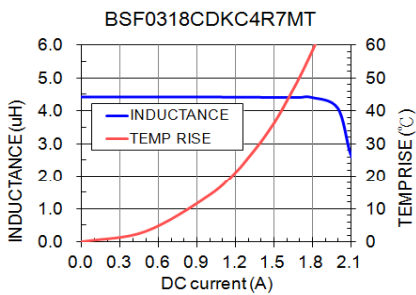
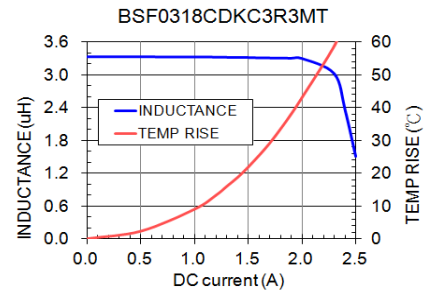
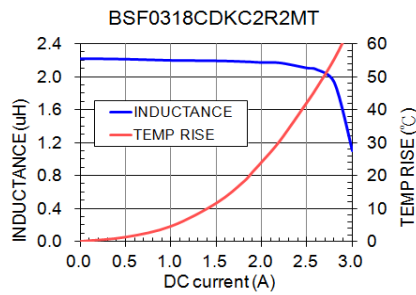
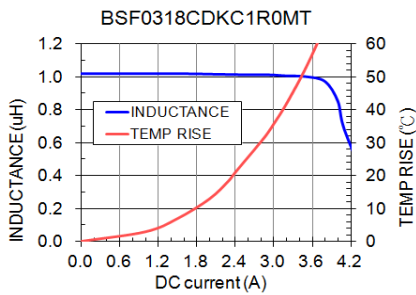
SIZE CODE	A	B	C	D Typ.	E	F	G		
BSF0318CDKC	3.0±0.3	1.9(max)	3.5±0.3	1.2	3.5	1.60	0.8		
BSF0302CDKC	3.0±0.3	2.3(max)	3.5±0.3	1.2	3.5	1.60	0.8		
BSF0302CRKC	3.0±0.3	2.3(max)	3.5±0.3	1.2	3.5	1.60	0.8		
BSF0402CDKC	4.0±0.3	2.2±0.3	4.5±0.3	1.5	4.5	2.10	0.8		
BSF0402CRKC	4.0±0.3	2.2±0.3	4.5±0.3	1.5	4.5	2.10	0.8		
BSF0403CDKC	4.0±0.3	3.2±0.3	4.5±0.3	1.5	4.5	2.10	0.8		
BSF0403CRKC	4.0±0.3	3.2±0.3	4.5±0.3	1.5	4.5	2.10	0.8		
BSF0502CDKC	5.2±0.3	2.5±0.3	5.8±0.3	2.0	5.5	2.25	1.5		
BSF0503CDKC	5.2±0.3	3.0±0.3	5.8±0.3	2.0	5.5	2.25	1.5		
BSF0504CDKC	5.2±0.3	4.5±0.3	5.8±0.3	2.0	5.5	2.25	1.5		
BSF0504CRKC	5.2±0.3	4.5±0.3	5.8±0.3	2.0	5.5	2.25	1.5		
BSF0703CDKC	7.0±0.3	3.5±0.3	7.8±0.3	2.5	7.5	3.05	1.9		
BSF0705CDKC	7.0±0.3	5.0±0.3	7.8±0.3	2.5	7.5	3.05	1.9		
BSF0705CRKC	7.0±0.3	5.0±0.3	7.8±0.3	2.5	7.5	3.05	1.9		

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SMD POWER INDUCTORS → BSF0318CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μH)	DC Resistance ($\text{m}\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0318CDKC1R0MT	1.0	58	85	3.80	2.40
BSF0318CDKC2R2MT	2.2	115	45	2.60	1.90
BSF0318CDKC3R3MT	3.3	155	40	2.20	1.70
BSF0318CDKC4R7MT	4.7	200	35	1.90	1.35
BSF0318CDKC100MT	10	520	20	1.20	0.82
BSF0318CDKC220MT	22	950	15	0.85	0.68
BSF0318CDKC330MT	33	1500	10	0.70	0.60
BSF0318CDKC470MT	47	1800	10	0.65	0.50



Test Freq.: 100KHz/0.1V

Tolerance: K \pm 10%, M \pm 20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-generated heat)

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SMD POWER INDUCTORS → BSF0302CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0302CDKC1R0MT	1.0	40	85	2.90	2.50
BSF0302CDKC1R2MT	1.2	45	80	2.90	2.30
BSF0302CDKC1R5MT	1.5	50	75	2.40	2.10
BSF0302CDKC1R8MT	1.8	60	60	2.20	2.00
BSF0302CDKC2R2MT	2.2	70	55	2.10	1.90
BSF0302CDKC2R7MT	2.7	95	40	1.90	1.80
BSF0302CDKC3R3MT	3.3	110	40	1.90	1.80
BSF0302CDKC3R9MT	3.9	120	40	1.70	1.60
BSF0302CDKC4R7MT	4.7	125	35	1.60	1.55
BSF0302CDKC5R6MT	5.6	140	30	1.40	1.50
BSF0302CDKC6R8MT	6.8	160	25	1.35	1.50
BSF0302CDKC8R2MT	8.2	230	25	1.10	1.20
BSF0302CDKC100MT	10	300	20	1.10	1.15
BSF0302CDKC120MT	12	320	20	0.93	1.00
BSF0302CDKC150MT	15	400	15	0.85	0.90
BSF0302CDKC180MT	18	470	15	0.84	0.80
BSF0302CDKC220MT	22	630	15	0.71	0.67
BSF0302CDKC270MT	27	720	10	0.66	0.66
BSF0302CDKC330MT	33	880	10	0.60	0.65
BSF0302CDKC390MT	39	950	7	0.55	0.60
BSF0302CDKC470MT	47	1150	7	0.51	0.55
BSF0302CDKC560MT	56	1400	7	0.47	0.50
BSF0302CDKC680MT	68	1700	7	0.42	0.48
BSF0302CDKC820MT	82	2100	7	0.38	0.39
BSF0302CDKC101MT	100	2400	7	0.36	0.37
BSF0302CDKC121MT	120	3400	5	0.33	0.32
BSF0302CDKC151MT	150	3800	2.5	0.29	0.27
BSF0302CDKC181MT	180	4500	2.5	0.28	0.26
BSF0302CDKC221MT	220	5000	2.5	0.25	0.23
BSF0302CDKC271MT	270	8000	2.5	0.23	0.22
BSF0302CDKC331MT	330	9000	2.5	0.19	0.21
BSF0302CDKC391MT	390	10000	1	0.18	0.18

Test Freq.: 100KHz/0.1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-generated heat)

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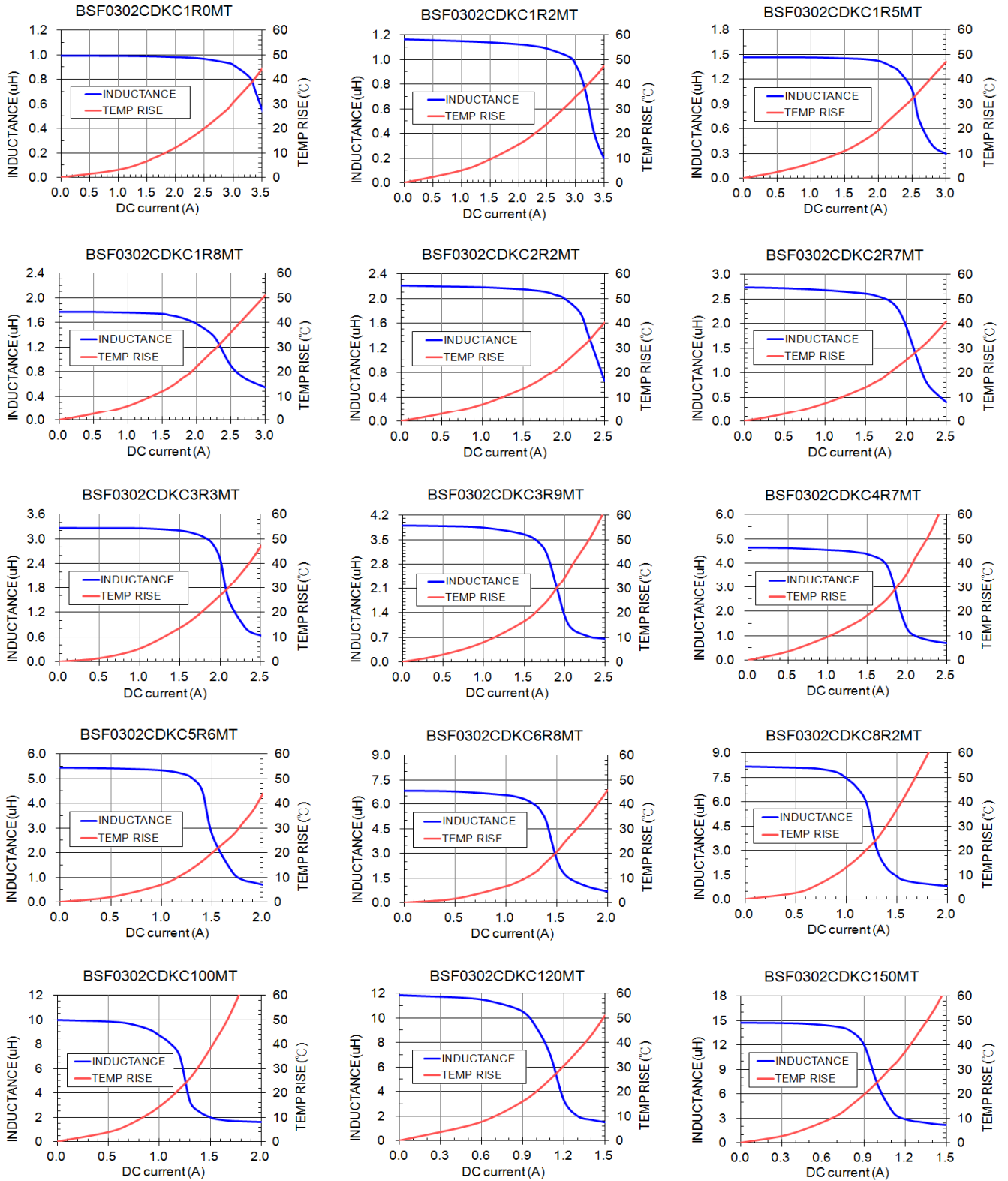


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SMD POWER INDUCTORS → BSF0302CDKC SERIES

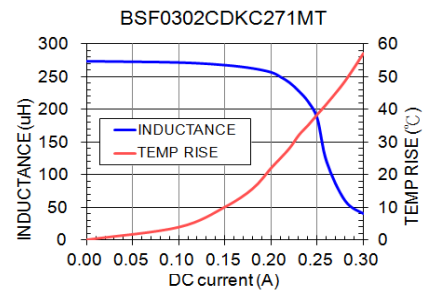
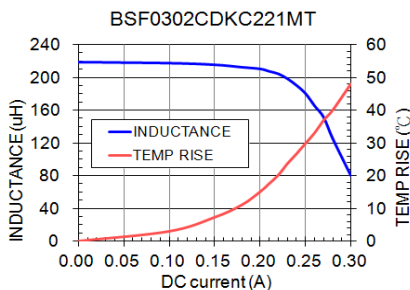
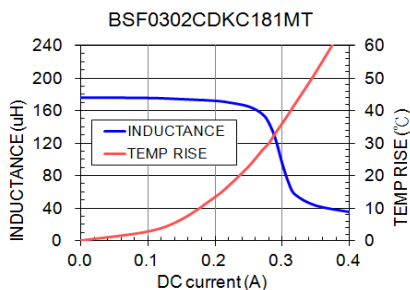
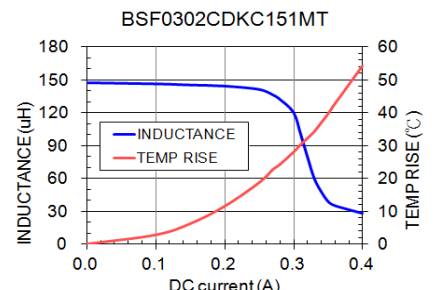
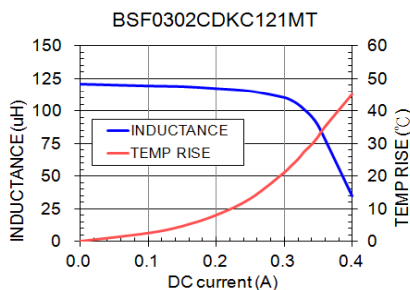
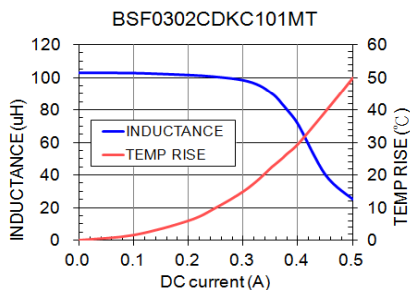
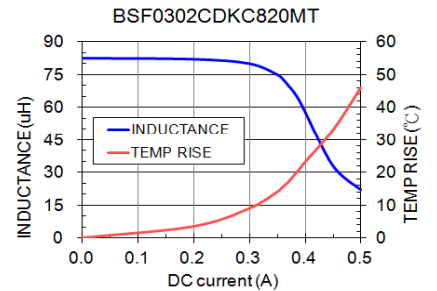
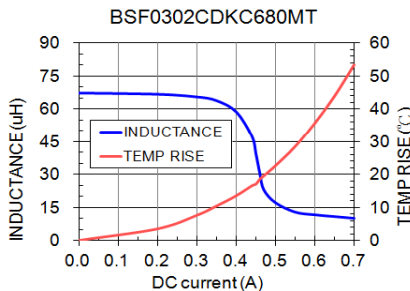
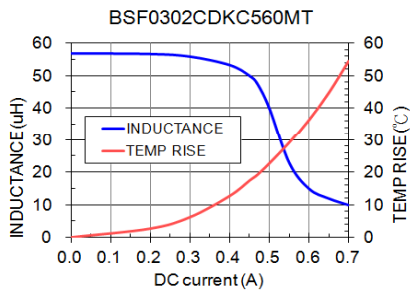
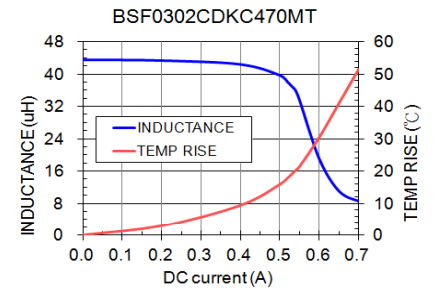
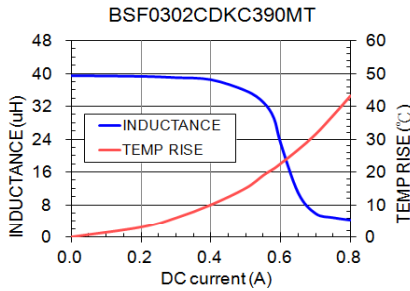
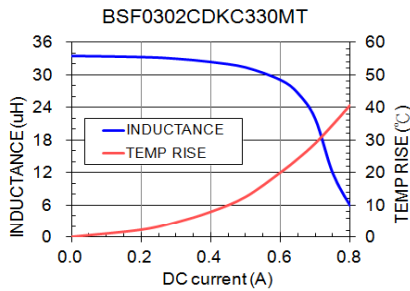
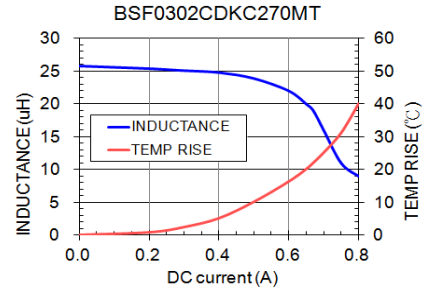
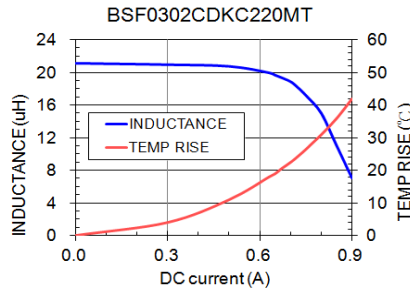
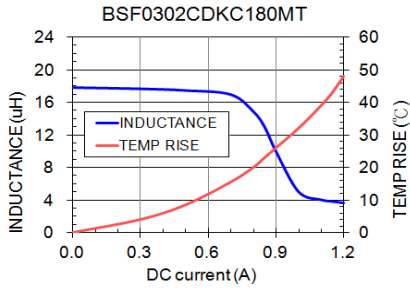
ELECTRICAL CHARACTERISTIC



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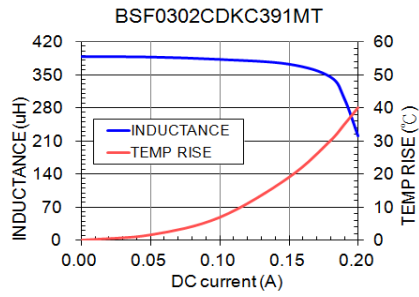
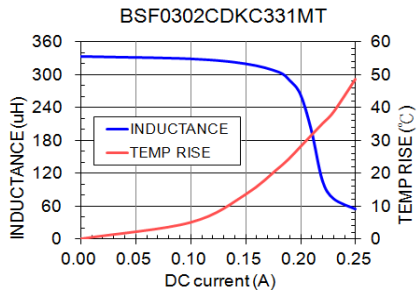
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ELECTRICAL CHARACTERISTIC

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BSF0402CDKC1R0MT	1.0	40	75	3.85	3.20
BSF0402CDKC1R2MT	1.2	45	65	3.90	3.20
BSF0402CDKC1R5MT	1.5	50	60	3.30	3.10
BSF0402CDKC1R8MT	1.8	55	50	3.20	2.90
BSF0402CDKC2R2MT	2.2	65	45	3.00	2.70
BSF0402CDKC2R7MT	2.7	70	40	2.90	2.60
BSF0402CDKC3R3MT	3.3	80	35	2.60	2.40
BSF0402CDKC3R9MT	3.9	110	35	2.30	2.00
BSF0402CDKC4R7MT	4.7	120	30	2.05	1.90
BSF0402CDKC5R6MT	5.6	130	30	1.95	1.80
BSF0402CDKC6R8MT	6.8	150	25	1.90	1.70
BSF0402CDKC8R2MT	8.2	170	25	1.70	1.60
BSF0402CDKC100MT	10	220	15	1.55	1.50
BSF0402CDKC120MT	12	250	15	1.40	1.30
BSF0402CDKC150MT	15	280	15	1.30	1.30
BSF0402CDKC180MT	18	320	13	1.20	1.20
BSF0402CDKC220MT	22	350	13	1.10	1.10
BSF0402CDKC270MT	27	450	10	1.00	1.00
BSF0402CDKC330MT	33	550	10	0.94	0.95
BSF0402CDKC390MT	39	600	10	0.87	0.88
BSF0402CDKC470MT	47	800	7	0.80	0.85
BSF0402CDKC560MT	56	1000	7	0.70	0.70
BSF0402CDKC680MT	68	1100	7	0.62	0.64
BSF0402CDKC820MT	82	1700	7	0.55	0.54
BSF0402CDKC101MT	100	2000	5	0.53	0.49
BSF0402CDKC121MT	120	2200	5	0.47	0.48
BSF0402CDKC151MT	150	2700	5	0.42	0.43
BSF0402CDKC181MT	180	3300	2.5	0.38	0.39
BSF0402CDKC221MT	220	3700	2.5	0.35	0.37
BSF0402CDKC271MT	270	5500	2.5	0.31	0.34
BSF0402CDKC331MT	330	6000	2.5	0.29	0.32

Test Freq.: 100KHz/0.1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

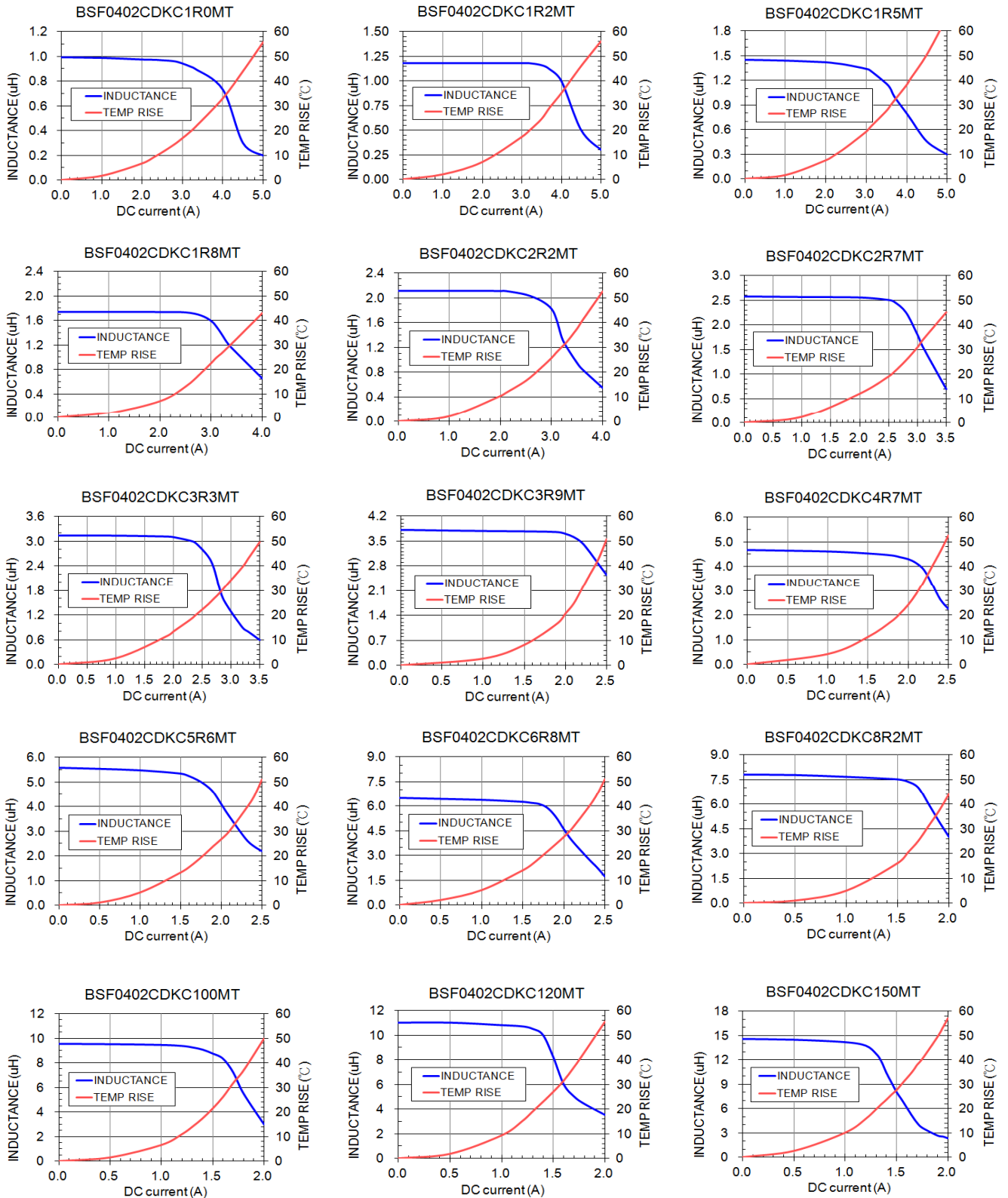
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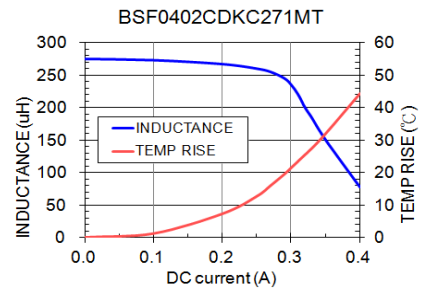
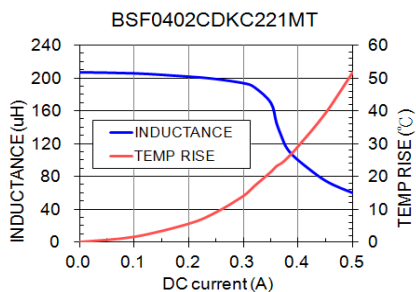
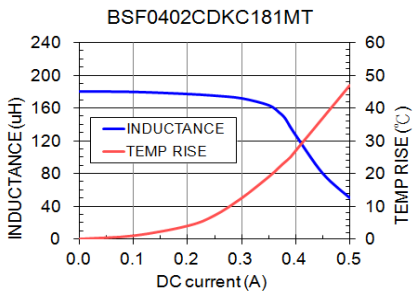
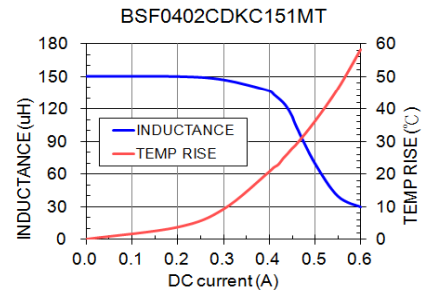
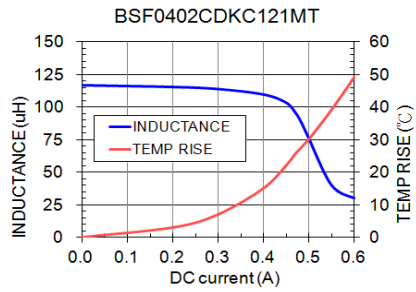
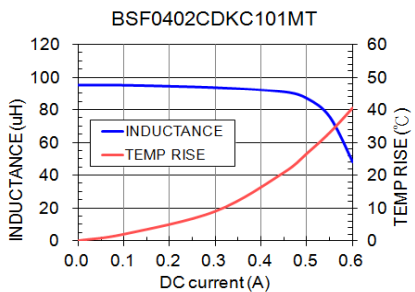
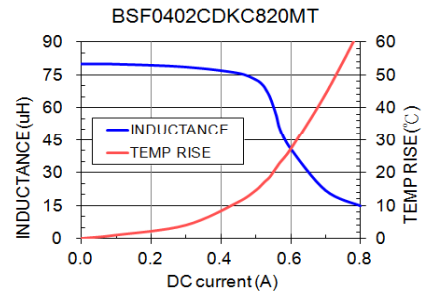
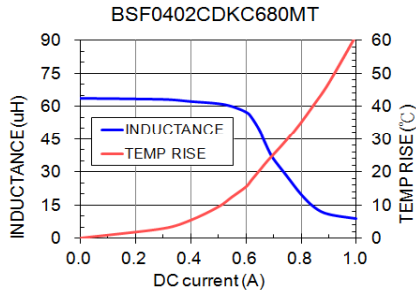
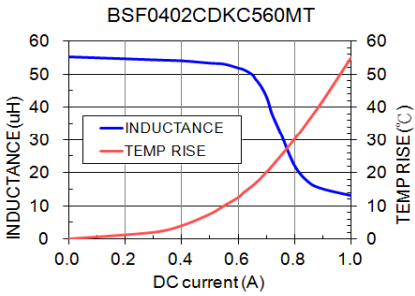
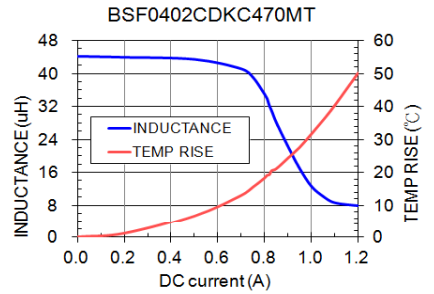
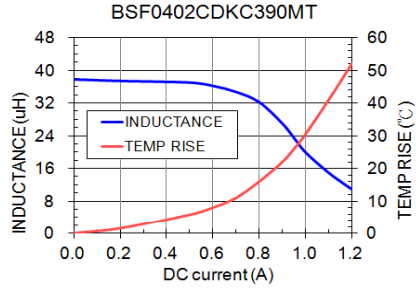
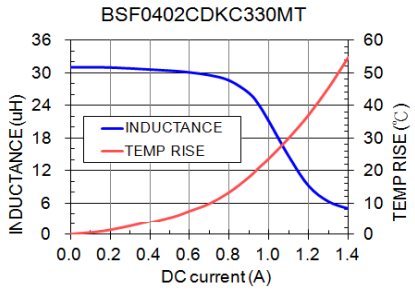
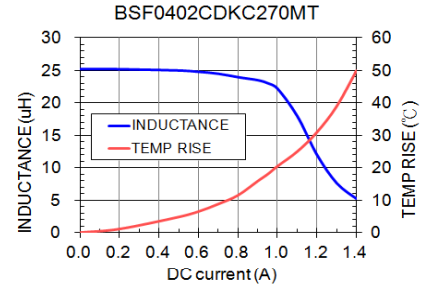
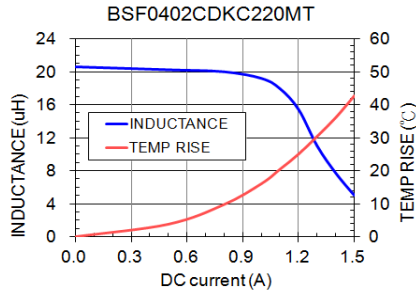
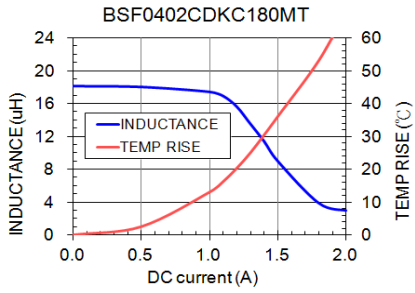
ELECTRICAL CHARACTERISTIC



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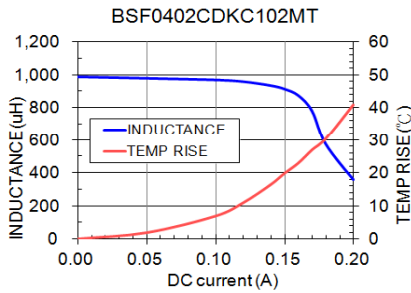
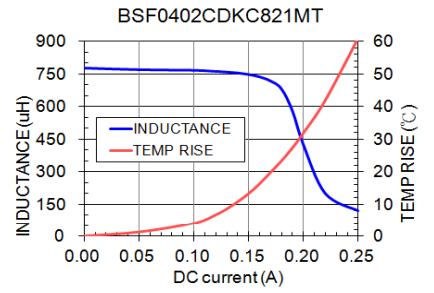
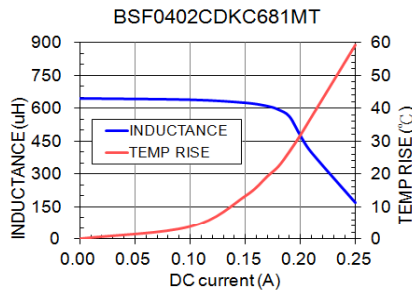
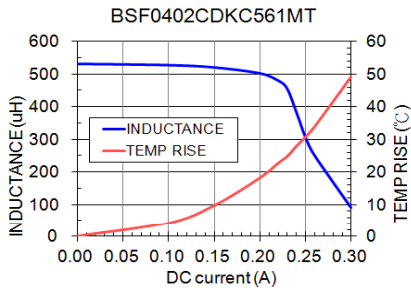
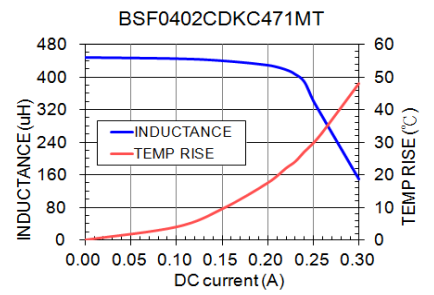
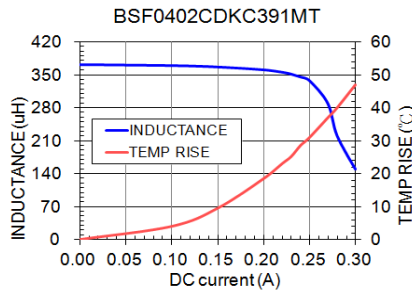
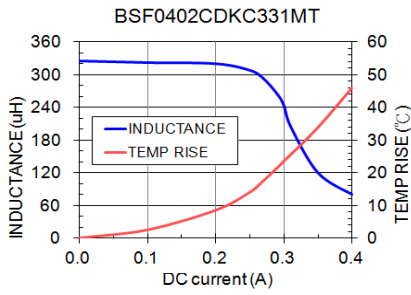
ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSF0402CDKC SERIES

ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSF0403CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0403CDKC1R0MT	1.0	26	95	5.00	3.80
BSF0403CDKC1R5MT	1.5	36	60	4.50	3.20
BSF0403CDKC2R2MT	2.2	45	50	3.60	3.20
BSF0403CDKC3R3MT	3.3	60	40	2.90	2.80
BSF0403CDKC3R9MT	3.9	70	30	2.50	2.50
BSF0403CDKC4R7MT	4.7	80	30	2.40	2.50
BSF0403CDKC5R6MT	5.6	90	25	2.20	2.30
BSF0403CDKC6R8MT	6.8	110	20	2.00	2.10
BSF0403CDKC100MT	10.0	130	15	1.80	1.60
BSF0403CDKC120MT	12.0	180	15	1.65	1.50
BSF0403CDKC150MT	15.0	200	15	1.50	1.40
BSF0403CDKC180MT	18.0	250	13	1.30	1.40
BSF0403CDKC220MT	22.0	330	13	1.25	1.15
BSF0403CDKC270MT	27.0	370	10	1.10	1.10
BSF0403CDKC330MT	33.0	500	10	1.00	1.00
BSF0403CDKC390MT	39.0	550	10	0.90	0.95
BSF0403CDKC470MT	47.0	600	7	0.85	0.90
BSF0403CDKC560MT	56.0	820	7	0.75	0.70
BSF0403CDKC680MT	68.0	950	7	0.70	0.62
BSF0403CDKC101MT	100	1200	5	0.60	0.60
BSF0403CDKC121MT	120	1750	2.5	0.50	0.55
BSF0403CDKC151MT	150	1900	2.5	0.45	0.50
BSF0403CDKC181MT	180	2200	2.5	0.43	0.47
BSF0403CDKC221MT	220	2700	2.5	0.38	0.45
BSF0403CDKC271MT	270	3700	1	0.34	0.37
BSF0403CDKC331MT	330	4000	1	0.32	0.35
BSF0403CDKC391MT	390	5500	1	0.30	0.30
BSF0403CDKC471MT	470	6500	1	0.26	0.25
BSF0403CDKC561MT	560	7500	1	0.25	0.24
BSF0403CDKC821MT	820	11000	1	0.21	0.20
BSF0403CDKC102MT	1000	12000	1	0.20	0.20
BSF0403CDKC182MT	1800	23000	0.7	0.14	0.12

Test Freq.: 100KHz/1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-generated heat)

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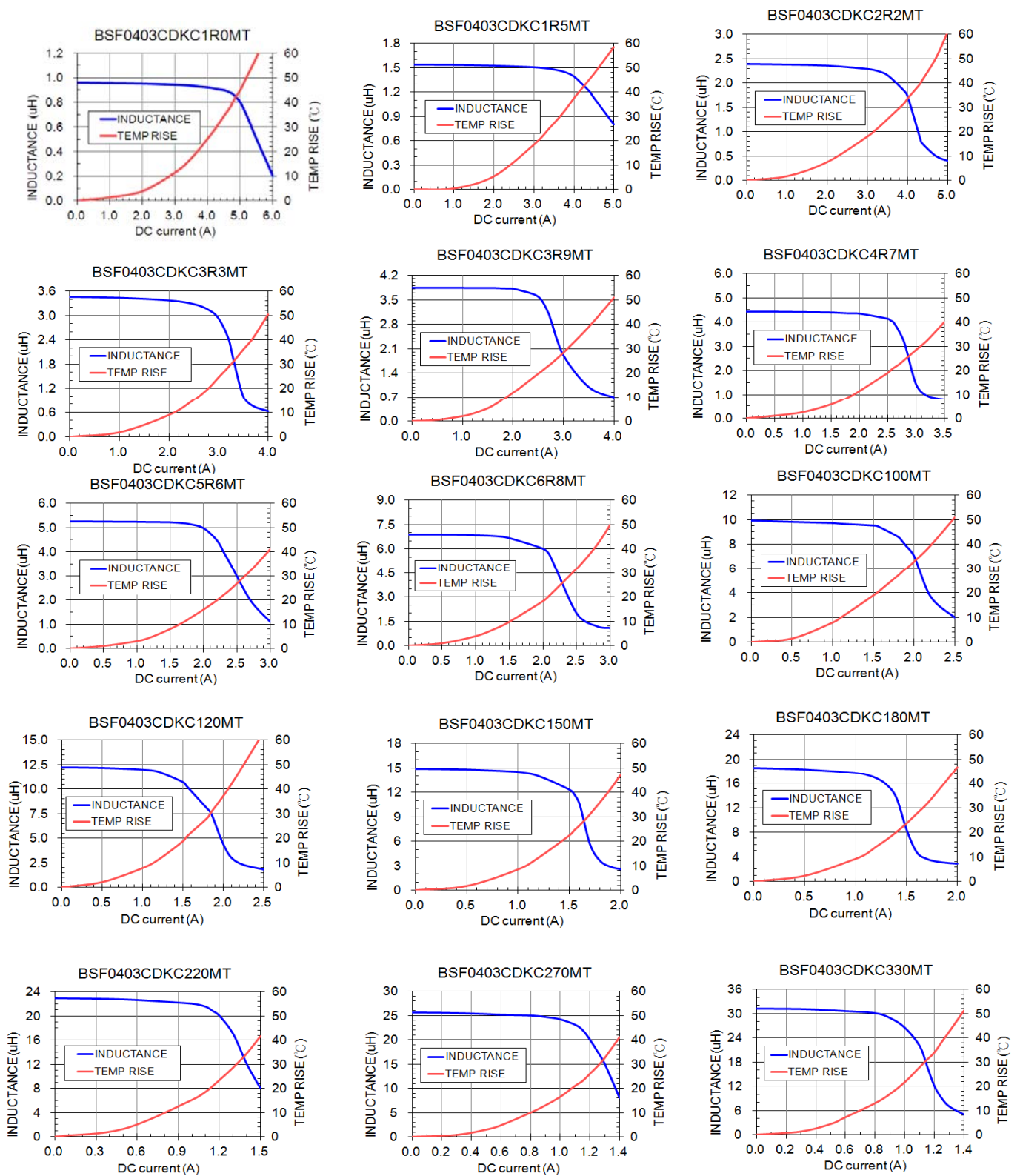


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SMD POWER INDUCTORS → BSF0403CDKC SERIES

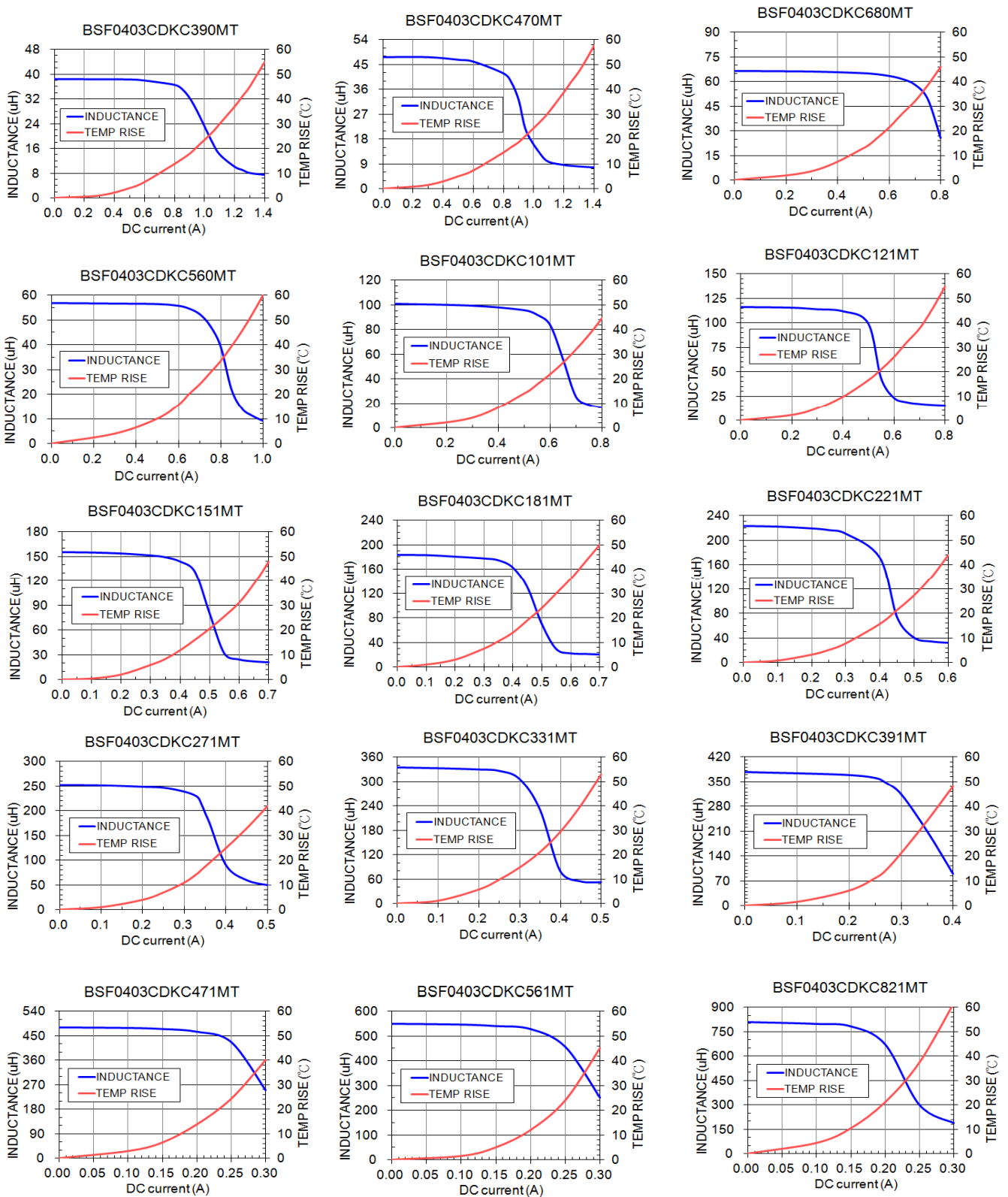
ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSF0403CDKC SERIES

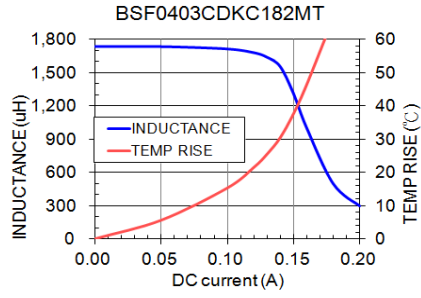
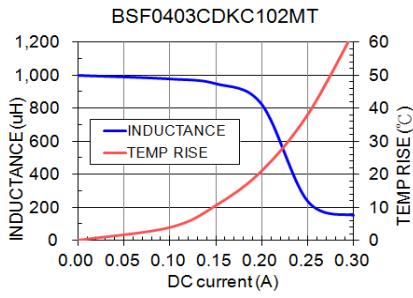
ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSF0403CDKC SERIES

ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSF0502CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0502CDKC1R0MT	1.0	25	70	4.90	4.20
BSF0502CDKC1R2MT	1.2	28	65	4.10	4.10
BSF0502CDKC1R5MT	1.5	30	55	4.05	4.00
BSF0502CDKC1R8MT	1.8	35	50	4.00	3.95
BSF0502CDKC2R2MT	2.2	40	45	3.35	3.90
BSF0502CDKC2R7MT	2.7	45	45	3.20	3.85
BSF0502CDKC3R3MT	3.3	50	40	3.00	3.80
BSF0502CDKC3R9MT	3.9	60	35	2.75	3.30
BSF0502CDKC4R7MT	4.7	80	30	2.45	3.10
BSF0502CDKC5R6MT	5.6	85	25	2.30	3.00
BSF0502CDKC6R8MT	6.8	90	25	2.10	3.00
BSF0502CDKC8R2MT	8.2	105	20	1.80	2.70
BSF0502CDKC100MT	10	140	20	1.75	2.30
BSF0502CDKC120MT	12	150	15	1.50	2.00
BSF0502CDKC150MT	15	160	15	1.40	1.90
BSF0502CDKC180MT	18	220	13	1.30	1.50
BSF0502CDKC220MT	22	250	13	1.25	1.40
BSF0502CDKC270MT	27	280	10	1.00	1.35
BSF0502CDKC330MT	33	330	7	0.965	1.35
BSF0502CDKC390MT	39	430	7	0.90	1.20
BSF0502CDKC470MT	47	500	7	0.76	1.10
BSF0502CDKC560MT	56	600	7	0.75	1.00
BSF0502CDKC680MT	68	700	7	0.74	0.95
BSF0502CDKC820MT	82	850	5	0.63	0.80
BSF0502CDKC101MT	100	1150	5	0.55	0.75
BSF0502CDKC121MT	120	1400	5	0.54	0.66
BSF0502CDKC151MT	150	1500	2.5	0.46	0.60
BSF0502CDKC181MT	180	1700	2.5	0.45	0.58
BSF0502CDKC221MT	220	2500	2.5	0.39	0.56
BSF0502CDKC271MT	270	3000	2.5	0.35	0.45
BSF0502CDKC331MT	330	3500	2.5	0.33	0.39
BSF0502CDKC391MT	390	4500	1	0.29	0.36

Test Freq.: 100KHz/0.1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

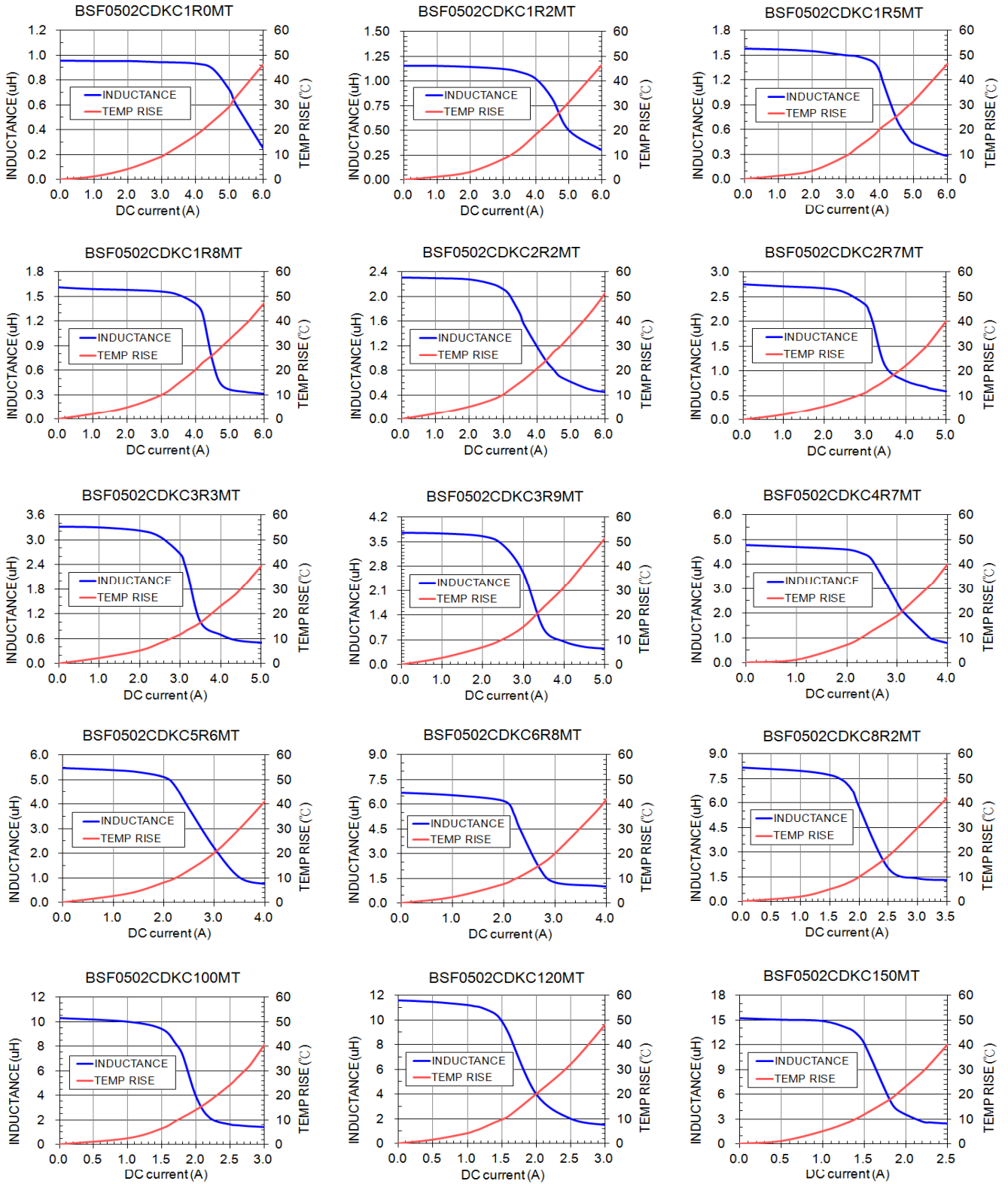
※IDC: Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-generated heat)

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SMD POWER INDUCTORS → BSF0502CDKC SERIES

ELECTRICAL CHARACTERISTIC



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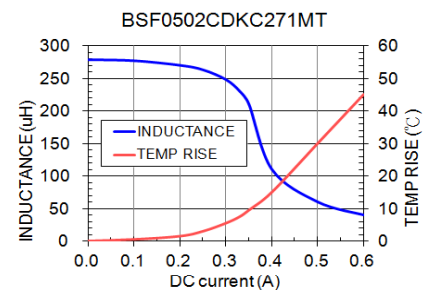
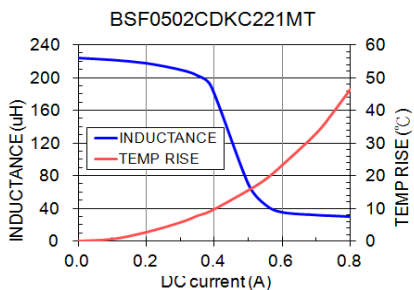
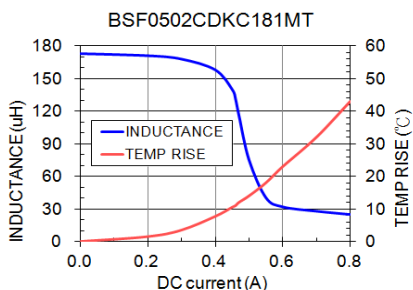
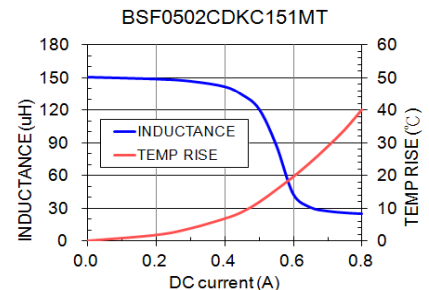
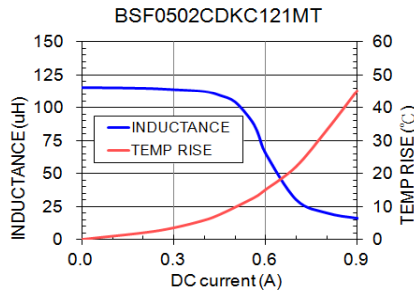
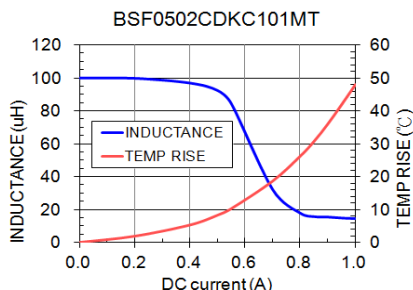
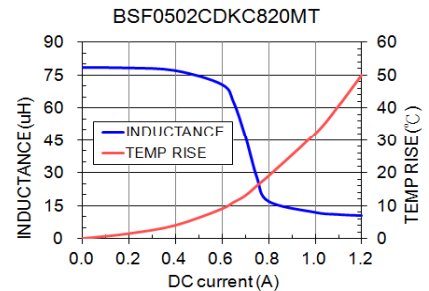
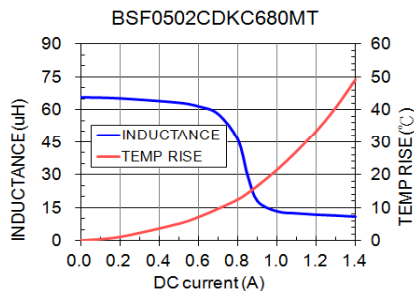
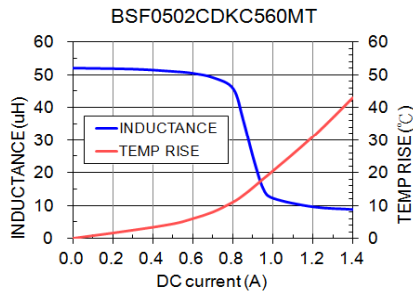
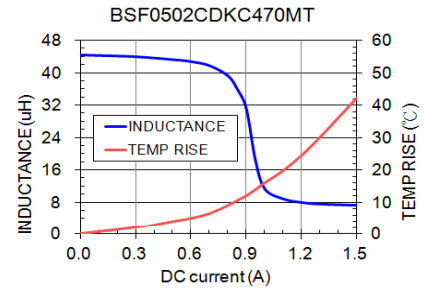
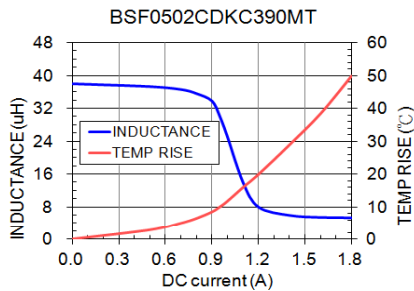
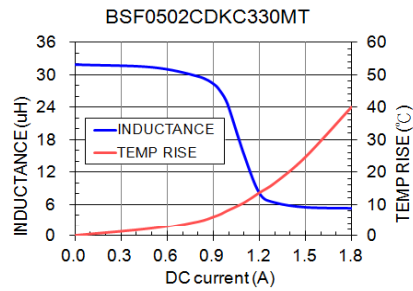
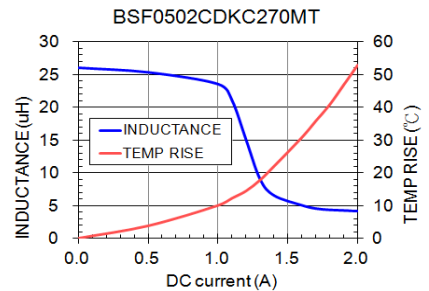
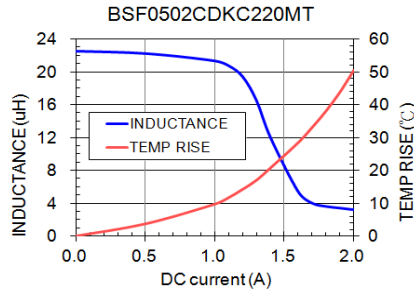
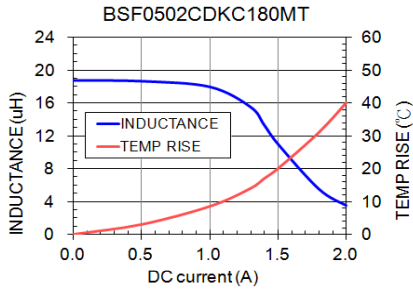


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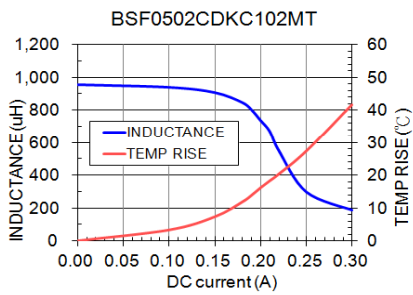
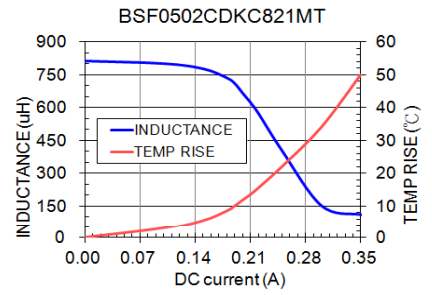
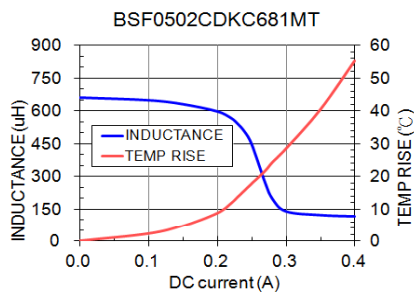
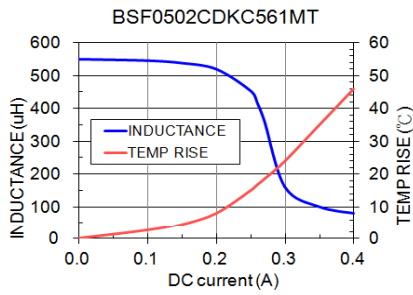
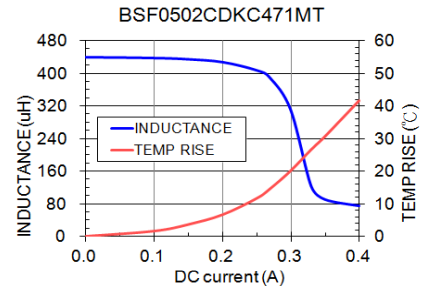
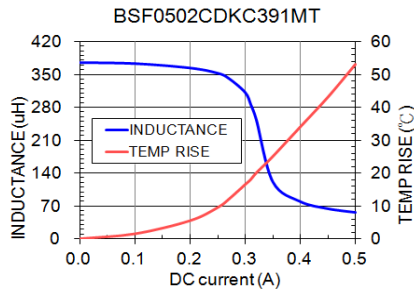
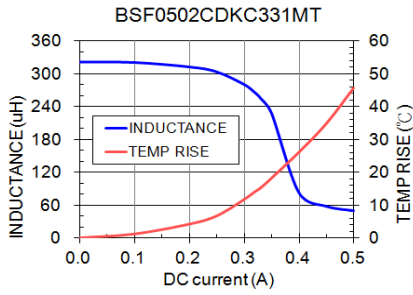
SMD POWER INDUCTORS → BSF0502CDKC SERIES

ELECTRICAL CHARACTERISTIC



SMD POWER INDUCTORS → BSF0502CDKC SERIES

ELECTRICAL CHARACTERISTIC



SMD POWER INDUCTORS → BSF0503CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0503CDKC1R0MT	1.0	24	90	5.70	4.00
BSF0503CDKC1R5MT	1.5	25	50	5.60	3.90
BSF0503CDKC2R2MT	2.2	30	40	4.90	3.80
BSF0503CDKC3R3MT	3.3	40	35	4.00	3.10
BSF0503CDKC4R7MT	4.7	60	30	3.50	2.60
BSF0503CDKC5R6MT	5.6	65	25	3.00	2.40
BSF0503CDKC6R8MT	6.8	85	20	2.90	2.30
BSF0503CDKC100MT	10	105	15	2.40	2.00
BSF0503CDKC150MT	15	145	13	1.90	2.00
BSF0503CDKC220MT	22	200	13	1.65	1.60
BSF0503CDKC330MT	33	250	10	1.30	1.50
BSF0503CDKC470MT	47	400	7	1.15	1.10
BSF0503CDKC560MT	56	630	7	1.10	0.90
BSF0503CDKC680MT	68	700	5	1.00	0.85
BSF0503CDKC820MT	82	800	5	0.95	0.76
BSF0503CDKC101MT	100	900	5	0.75	0.75
BSF0503CDKC221MT	220	1750	2.5	0.55	0.50
BSF0503CDKC271MT	270	2900	2.5	0.50	0.41
BSF0503CDKC331MT	330	3300	1	0.45	0.40
BSF0503CDKC391MT	390	4400	1	0.40	0.33
BSF0503CDKC471MT	470	4800	1	0.38	0.30
BSF0503CDKC561MT	560	5400	1	0.35	0.27
BSF0503CDKC681MT	680	7700	1	0.31	0.26
BSF0503CDKC821MT	820	8500	1	0.29	0.24
BSF0503CDKC102MT	1000	12500	1	0.25	0.20

Test Freq.: 100KHz/1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40 $^{\circ}$ C

※Operating temperature range : -40 to +125 $^{\circ}$ C (including self-generated heat)

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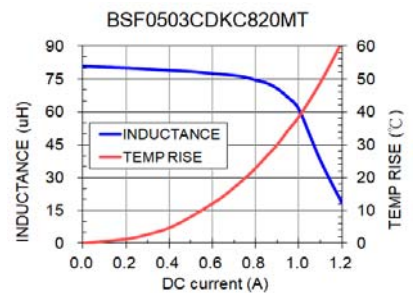
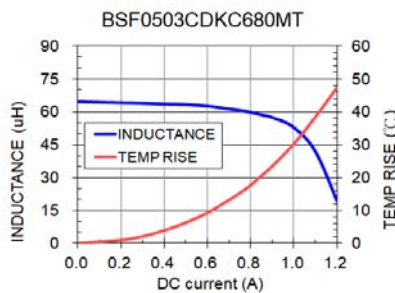
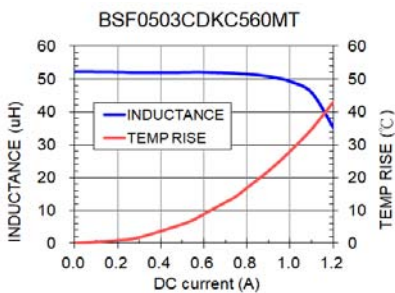
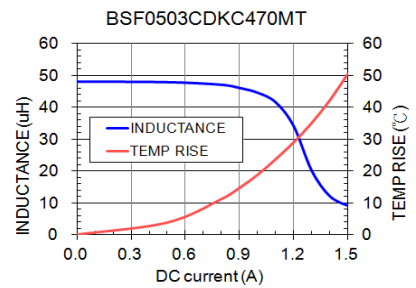
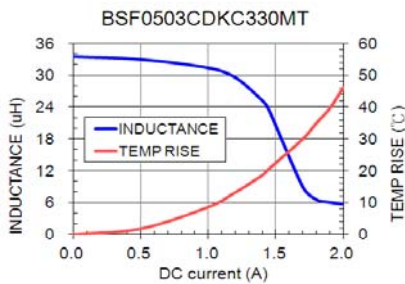
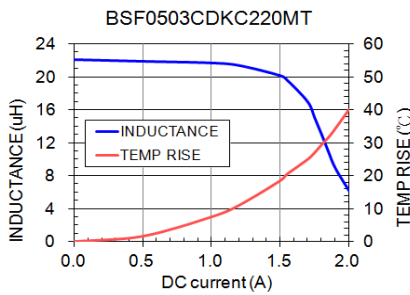
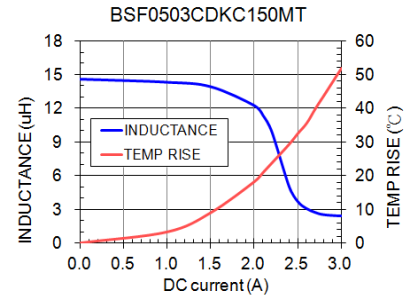
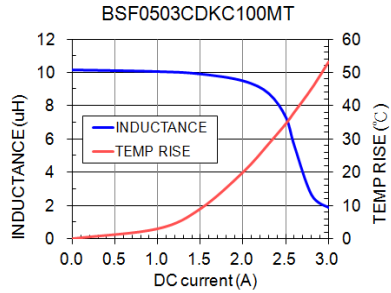
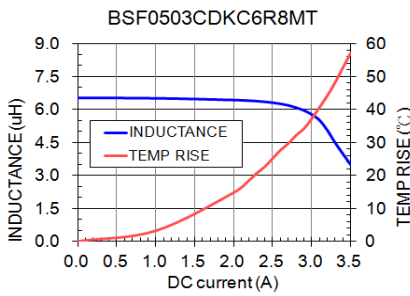
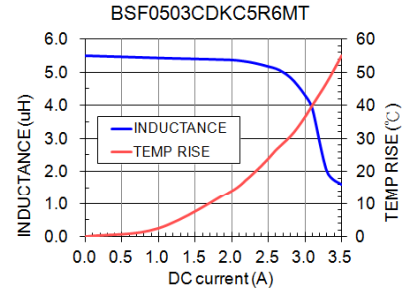
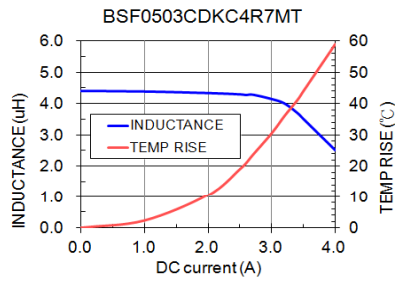
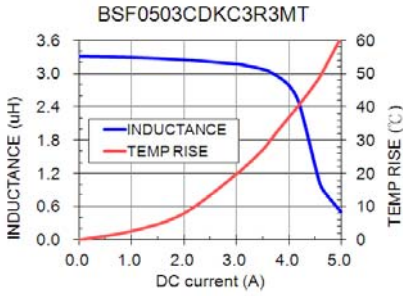
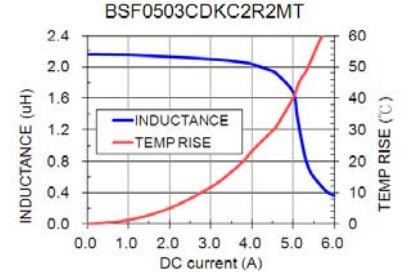
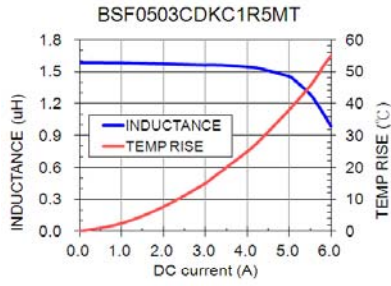
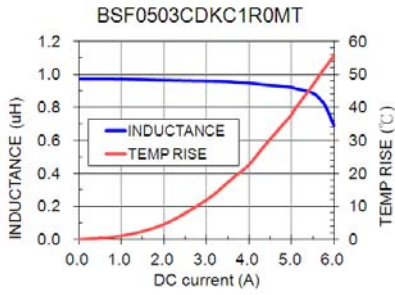


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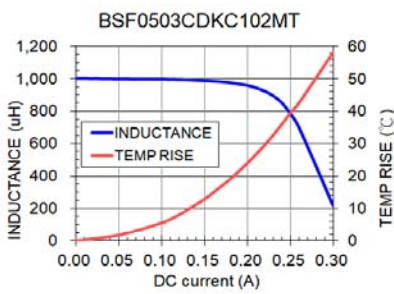
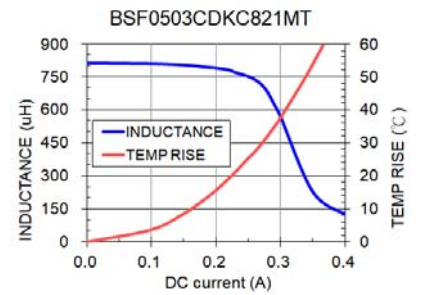
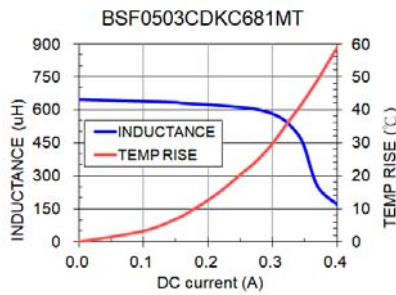
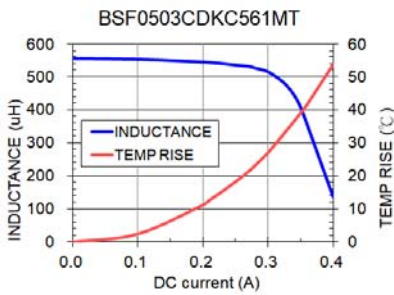
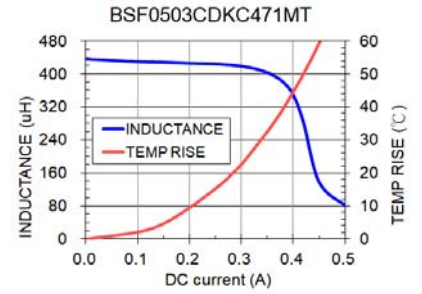
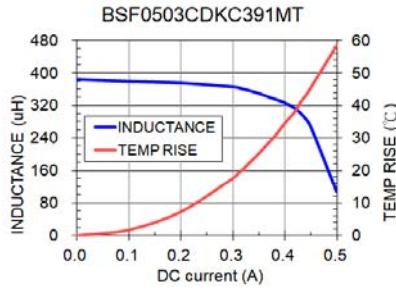
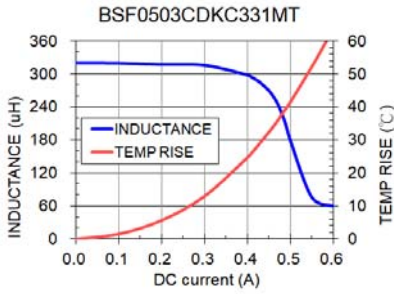
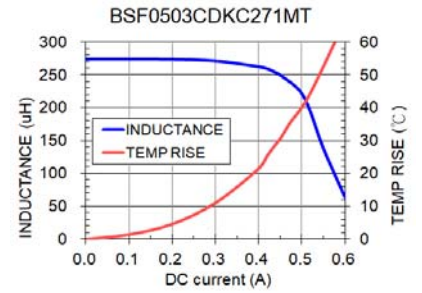
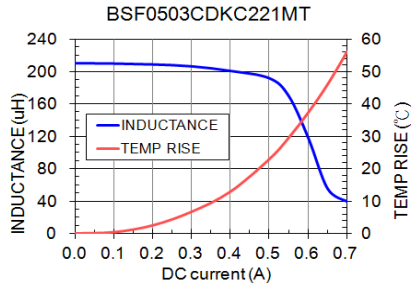
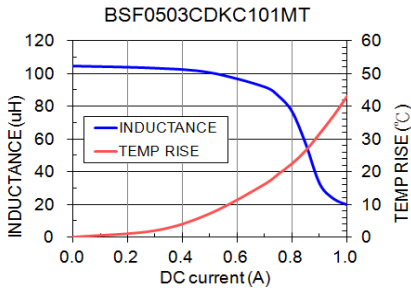
SMD POWER INDUCTORS → BSF0503CDKC SERIES

ELECTRICAL CHARACTERISTIC



SMD POWER INDUCTORS → BSF0503CDKC SERIES

ELECTRICAL CHARACTERISTIC



SMD POWER INDUCTORS → BSF0504CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0504CDKC1R0MT	1.0	18	90	6.60	4.20
BSF0504CDKC1R2MT	1.2	20	60	6.30	4.20
BSF0504CDKC1R5MT	1.5	21	60	5.70	4.20
BSF0504CDKC1R8MT	1.8	23	40	5.60	4.10
BSF0504CDKC2R2MT	2.2	28	35	4.85	4.00
BSF0504CDKC2R7MT	2.7	30	30	4.70	3.80
BSF0504CDKC3R3MT	3.3	34	30	4.00	3.50
BSF0504CDKC3R9MT	3.9	36	25	3.90	3.50
BSF0504CDKC4R7MT	4.7	37	25	3.70	3.40
BSF0504CDKC5R6MT	5.6	53	25	3.20	2.80
BSF0504CDKC6R8MT	6.8	60	15	2.85	2.40
BSF0504CDKC8R2MT	8.2	70	15	2.35	2.30
BSF0504CDKC100MT	10	90	13	2.20	2.20
BSF0504CDKC120MT	12	100	10	2.15	2.10
BSF0504CDKC150MT	15	102	10	2.00	2.00
BSF0504CDKC180MT	18	130	10	1.70	1.80
BSF0504CDKC220MT	22	155	10	1.50	1.70
BSF0504CDKC270MT	27	190	7	1.50	1.60
BSF0504CDKC330MT	33	200	7	1.40	1.60
BSF0504CDKC390MT	39	250	7	1.40	1.40
BSF0504CDKC470MT	47	320	7	1.20	1.20
BSF0504CDKC560MT	56	370	5	1.05	1.10
BSF0504CDKC680MT	68	420	5	0.90	1.10
BSF0504CDKC820MT	82	470	5	0.85	1.00
BSF0504CDKC101MT	100	650	2.5	0.75	0.85
BSF0504CDKC121MT	120	700	2.5	0.65	0.75
BSF0504CDKC151MT	150	800	2.5	0.55	0.70
BSF0504CDKC181MT	180	1000	2.5	0.53	0.65
BSF0504CDKC221MT	220	1200	1	0.45	0.60

Test Freq.: 100KHz/1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-generated heat)

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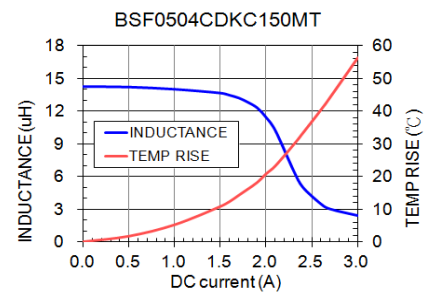
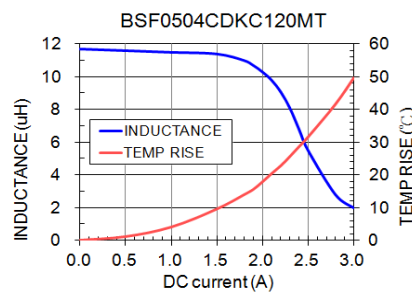
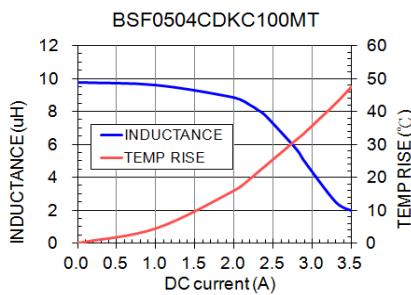
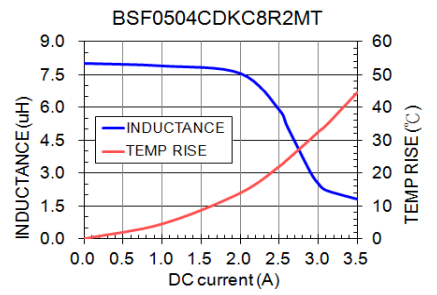
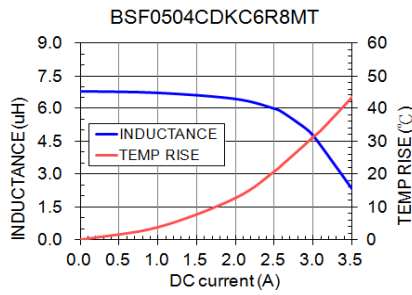
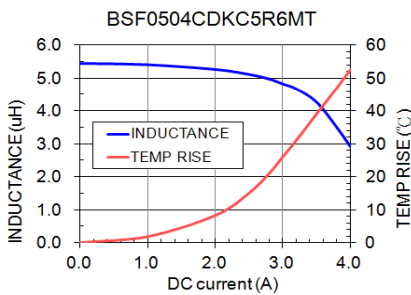
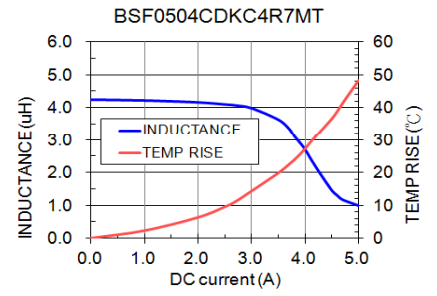
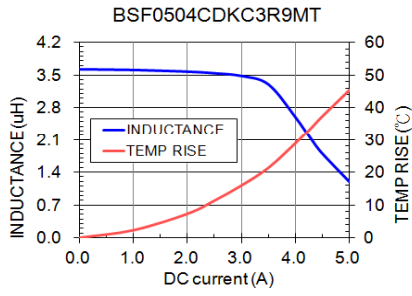
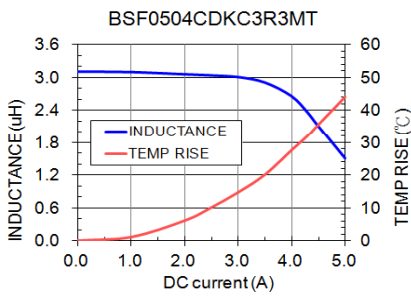
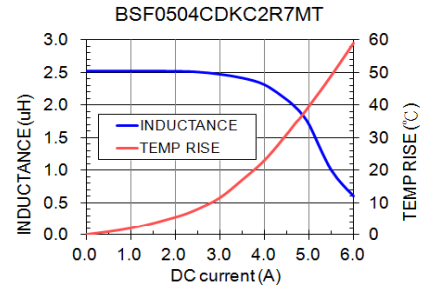
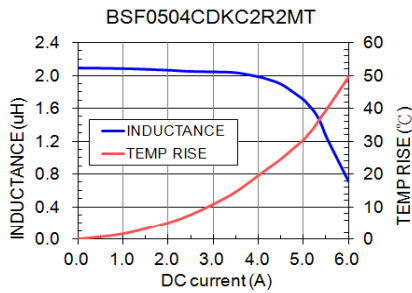
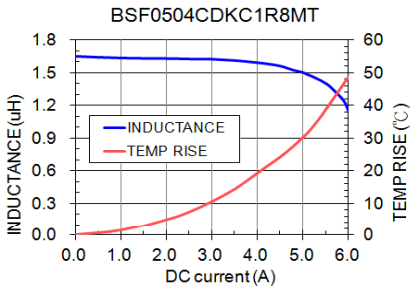
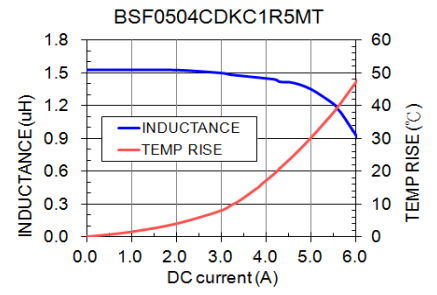
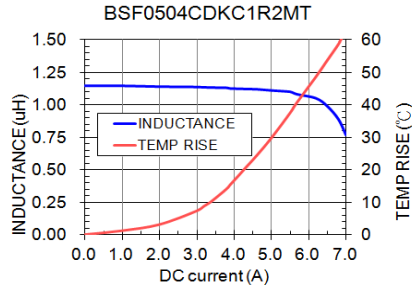
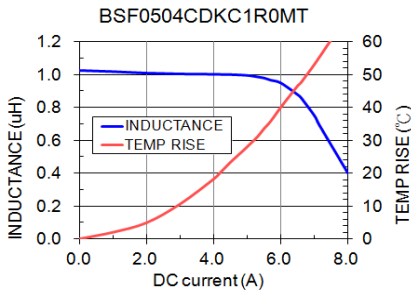


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SMD POWER INDUCTORS → BSF0504CDKC SERIES

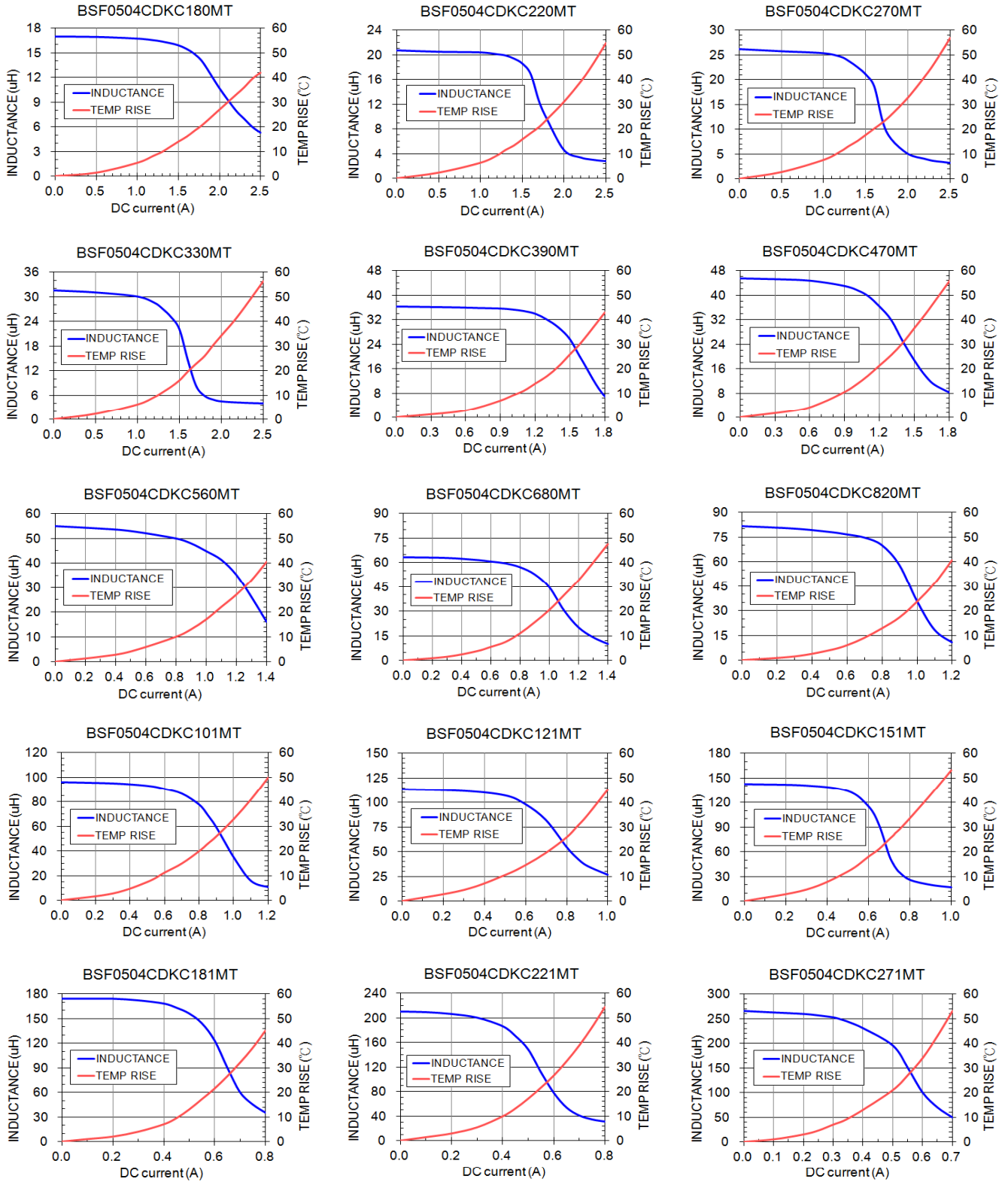
ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSF0504CDKC SERIES

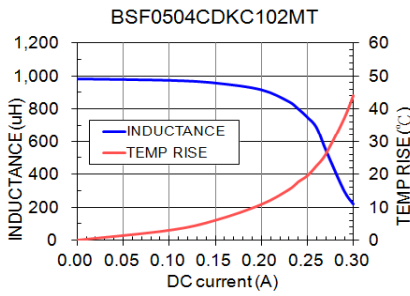
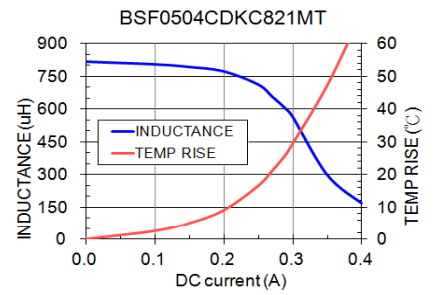
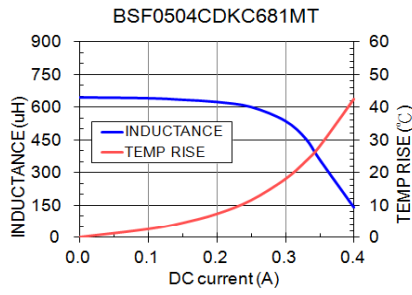
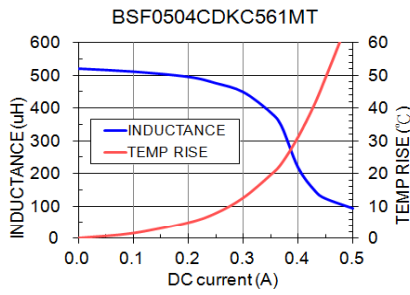
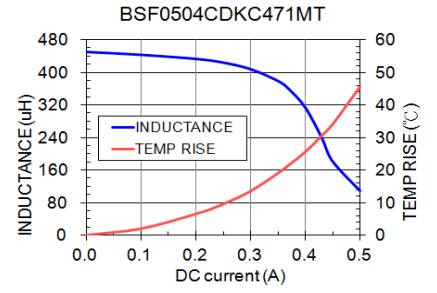
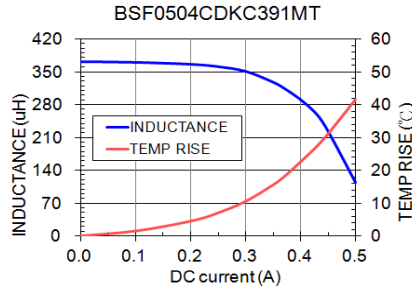
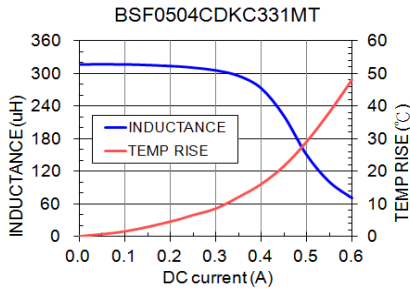
ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSF0504CDKC SERIES

ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSF0703CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0703CDKC1R0MT	1.0	13	75	7.00	6.00
BSF0703CDKC1R5MT	1.5	16	60	5.60	5.50
BSF0703CDKC2R2MT	2.2	20	45	4.60	5.00
BSF0703CDKC3R3MT	3.3	25	40	4.10	4.10
BSF0703CDKC4R7MT	4.7	35	30	3.90	3.90
BSF0703CDKC6R8MT	6.8	50	20	3.00	3.10
BSF0703CDKC8R2MT	8.2	55	20	2.80	3.10
BSF0703CDKC100MT	10.0	60	15	2.50	3.00
BSF0703CDKC150MT	15.0	90	13	2.00	2.80
BSF0703CDKC220MT	22.0	130	10	1.70	2.00
BSF0703CDKC330MT	33.0	150	10	1.30	1.90
BSF0703CDKC470MT	47.0	250	7	1.20	1.45
BSF0703CDKC680MT	68.0	320	7	1.00	1.20
BSF0703CDKC820MT	82.0	360	5	0.95	1.20
BSF0703CDKC101MT	100	550	5	0.90	1.00
BSF0703CDKC121MT	120.0	620	5	0.85	0.90
BSF0703CDKC221MT	220	1000	2.5	0.60	0.80
BSF0703CDKC271MT	270	1200	2.5	0.55	0.75
BSF0703CDKC331MT	330	1700	1	0.50	0.60
BSF0703CDKC391MT	390	1900	1	0.43	0.55
BSF0703CDKC471MT	470	2100	1	0.40	0.45
BSF0703CDKC681MT	680	3400	0.7	0.34	0.43
BSF0703CDKC821MT	820	3900	0.7	0.32	0.33
BSF0703CDKC102MT	1000	6000	0.7	0.28	0.32
BSF0703CDKC122MT	1200	7000	0.7	0.25	0.31
BSF0703CDKC152MT	1500	8500	0.7	0.23	0.30

Test Freq.: 100KHz/1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-generated heat)

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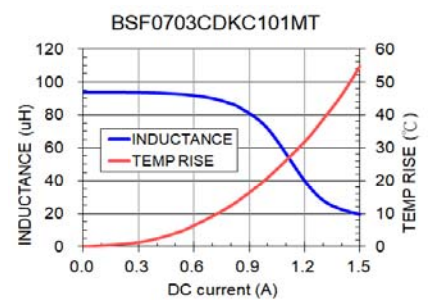
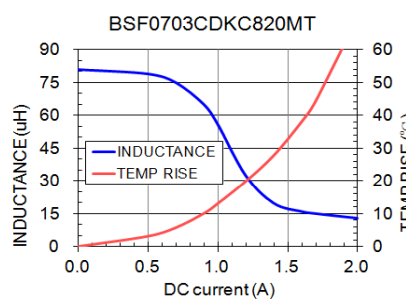
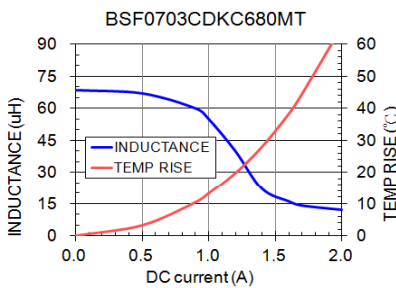
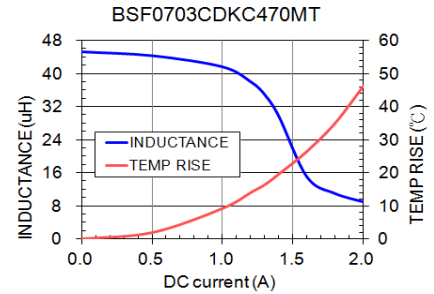
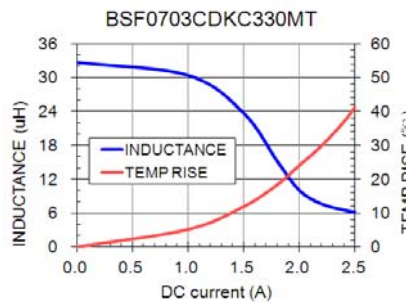
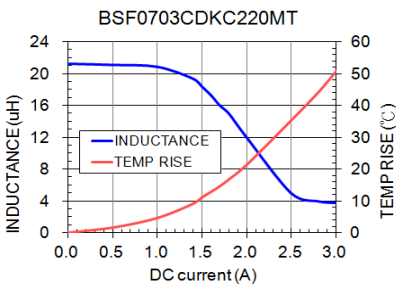
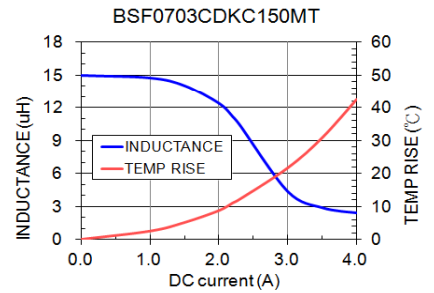
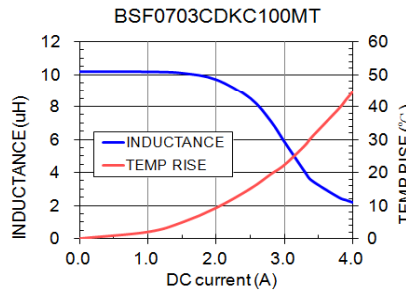
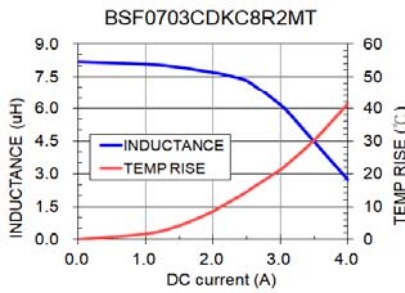
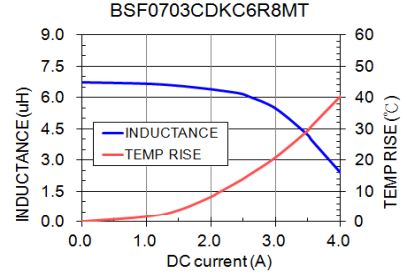
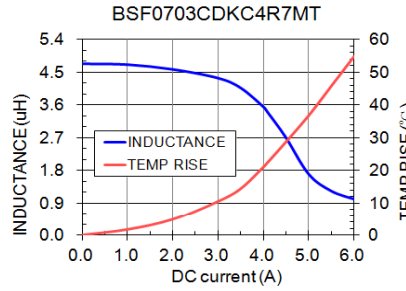
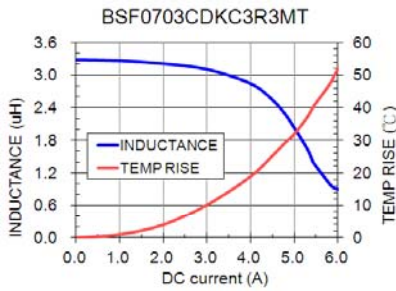
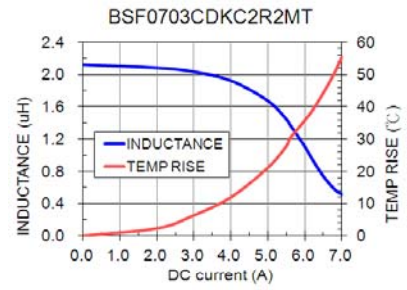
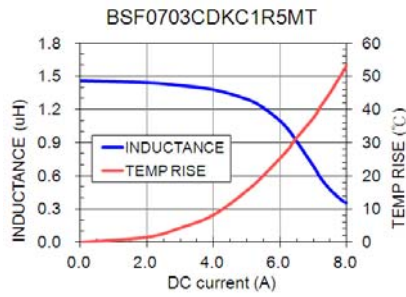
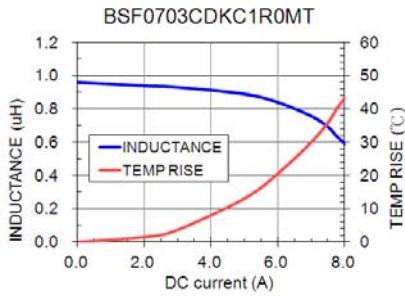


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SMD POWER INDUCTORS → BSF0703CDKC SERIES

ELECTRICAL CHARACTERISTIC



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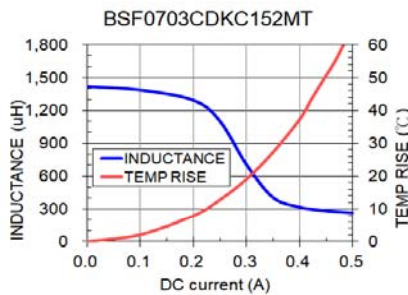
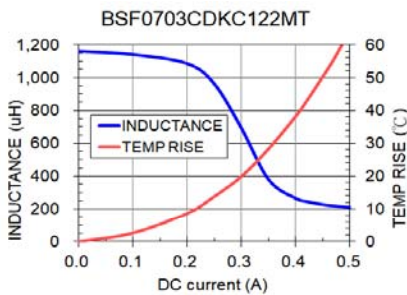
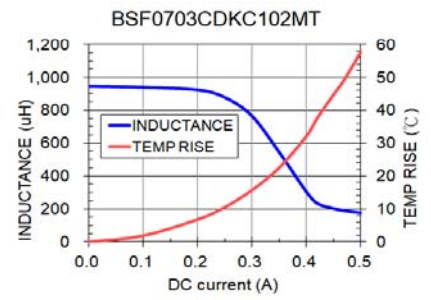
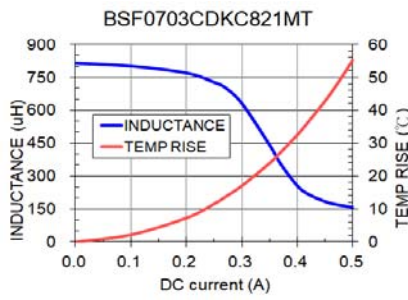
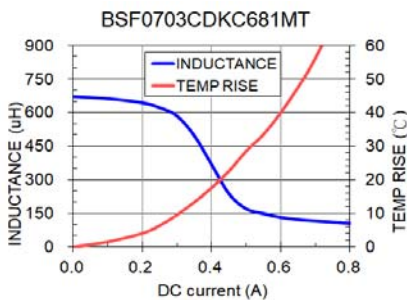
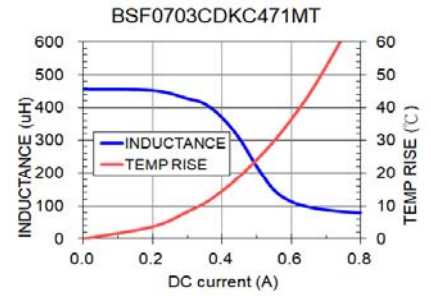
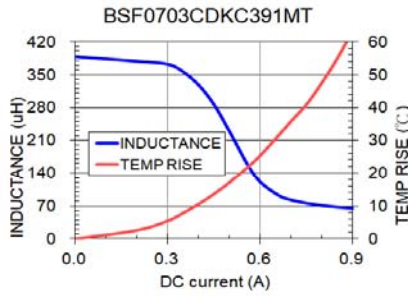
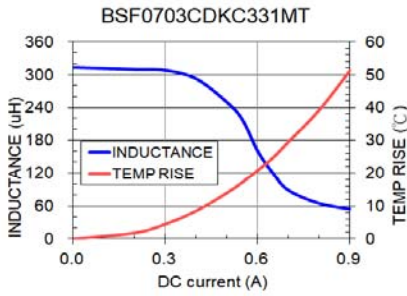
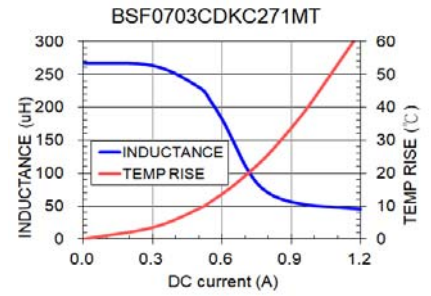
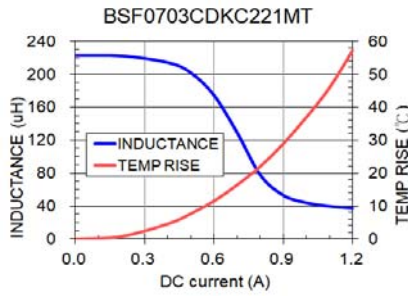
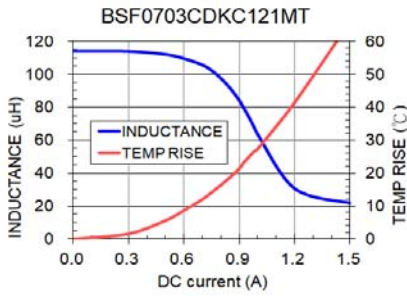


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SMD POWER INDUCTORS → BSF0703CDKC SERIES

ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSF0705CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0705CDKC1R0MT	1.0	25	80	6.70	4.50
BSF0705CDKC1R5MT	1.5	30	65	6.40	4.40
BSF0705CDKC2R2MT	2.2	35	50	5.20	4.00
BSF0705CDKC2R7MT	2.7	38	35	5.15	3.90
BSF0705CDKC3R3MT	3.3	40	30	5.15	3.80
BSF0705CDKC4R7MT	4.7	45	20	4.10	3.60
BSF0705CDKC5R6MT	5.6	50	15	3.50	3.50
BSF0705CDKC6R8MT	6.8	60	15	3.40	3.40
BSF0705CDKC8R2MT	8.2	63	13	3.30	3.40
BSF0705CDKC100MT	10	65	10	2.70	3.40
BSF0705CDKC120MT	12	75	10	2.60	2.50
BSF0705CDKC150MT	15	80	7	2.50	2.30
BSF0705CDKC180MT	18	90	7	2.20	2.20
BSF0705CDKC220MT	22	100	7	2.15	2.15
BSF0705CDKC270MT	27	115	7	1.90	2.00
BSF0705CDKC330MT	33	125	7	1.80	1.90
BSF0705CDKC390MT	39	150	7	1.75	1.90
BSF0705CDKC470MT	47	160	5	1.60	1.90
BSF0705CDKC560MT	56	180	5	1.50	1.70
BSF0705CDKC680MT	68	260	2.5	1.20	1.40
BSF0705CDKC820MT	82	300	2.5	1.05	1.30
BSF0705CDKC101MT	100	350	2.5	1.00	1.30
BSF0705CDKC121MT	120	440	2.5	0.91	1.10
BSF0705CDKC151MT	150	500	2.5	0.75	1.10
BSF0705CDKC181MT	180	600	2.5	0.72	0.95
BSF0705CDKC221MT	220	750	1	0.62	0.90
BSF0705CDKC271MT	270	800	1	0.57	0.85
BSF0705CDKC331MT	330	1100	1	0.50	0.80
BSF0705CDKC391MT	390	1400	1	0.45	0.65
BSF0705CDKC471MT	470	1500	1	0.40	0.62
BSF0705CDKC561MT	560	1700	0.7	0.38	0.55
BSF0705CDKC681MT	680	2100	0.7	0.37	0.54
BSF0705CDKC821MT	820	2500	0.7	0.34	0.48
BSF0705CDKC102MT	1000	3000	0.7	0.30	0.46

Tolerance: K \pm 10%,M \pm 20% (Test Freq.:100KHz/1V)

※Isat:Based on Inductance decrease 30%

※IDC:Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-generated heat)

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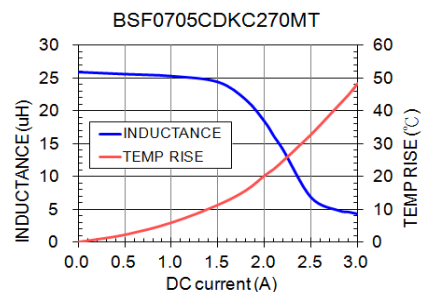
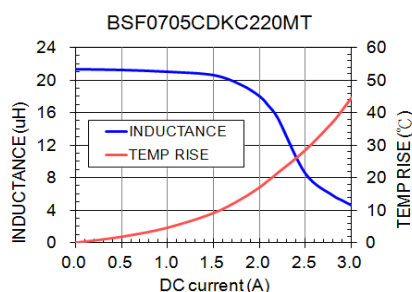
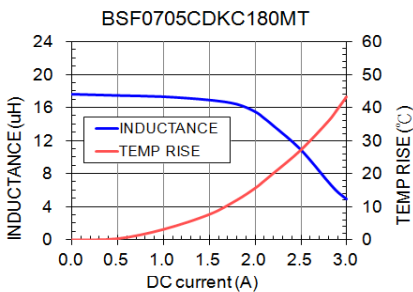
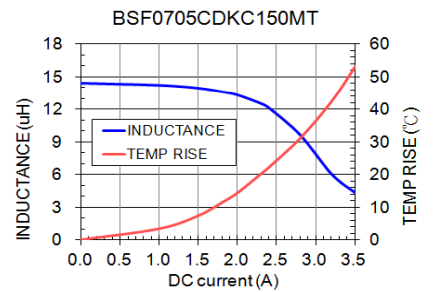
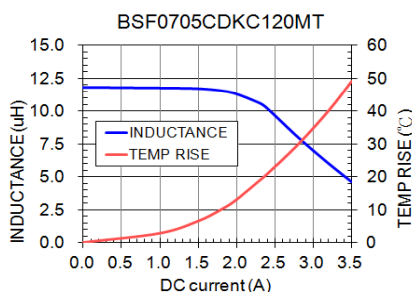
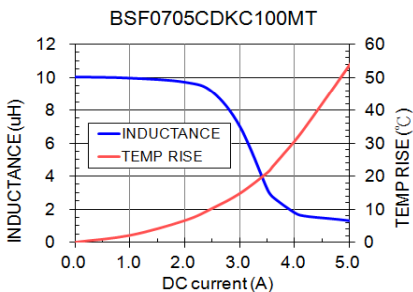
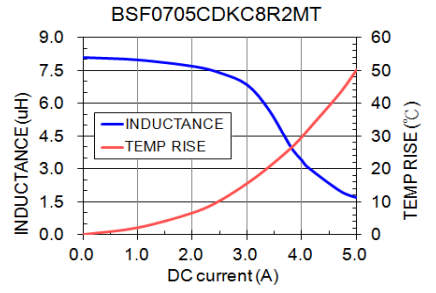
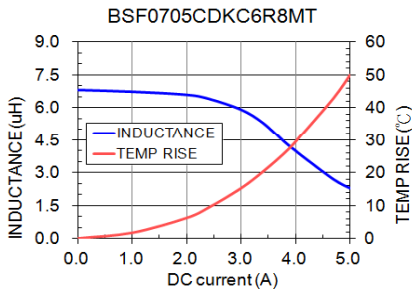
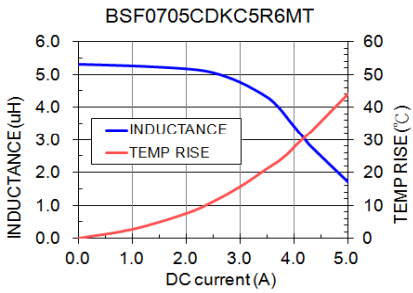
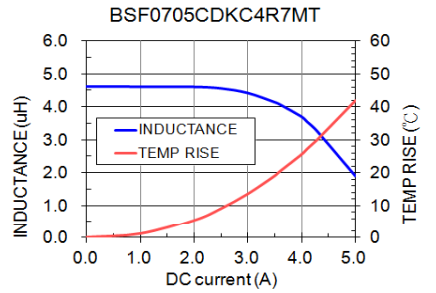
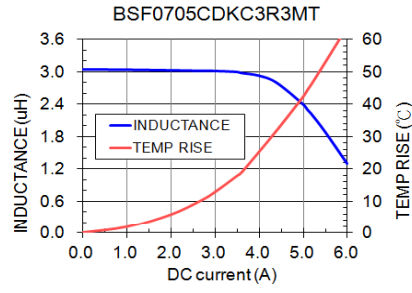
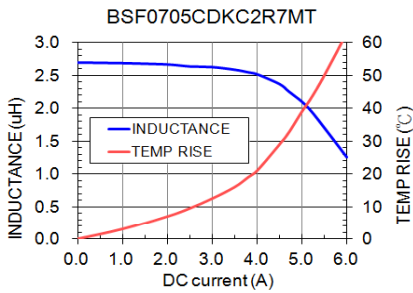
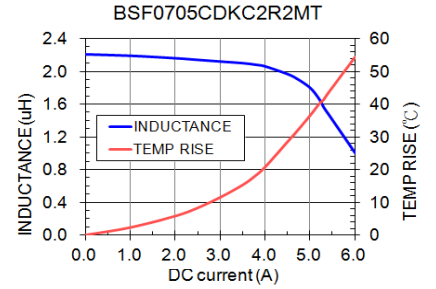
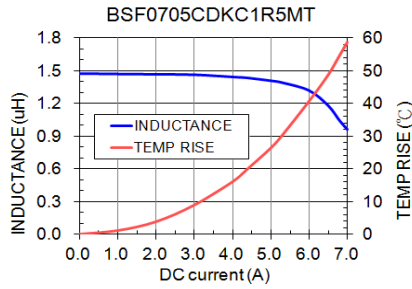
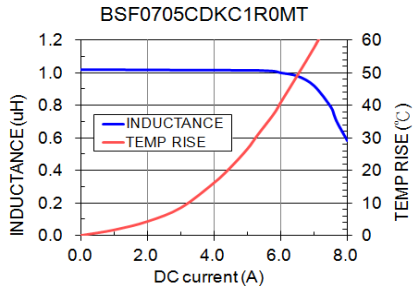


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SMD POWER INDUCTORS → BSF0705CDKC SERIES

ELECTRICAL CHARACTERISTIC



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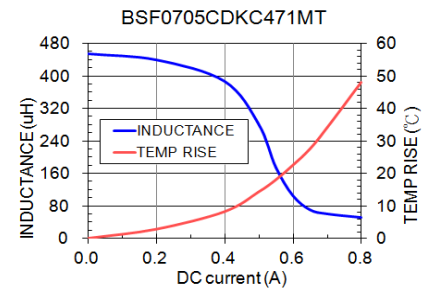
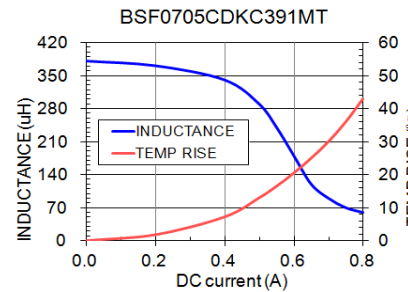
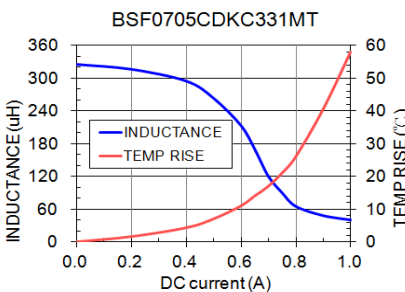
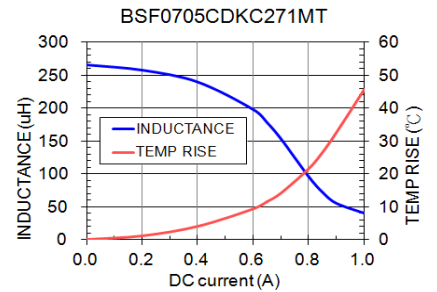
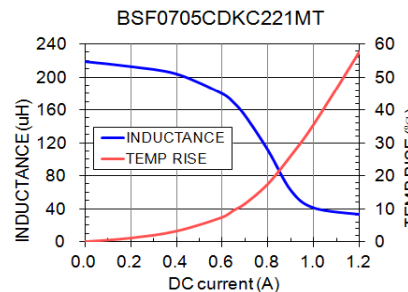
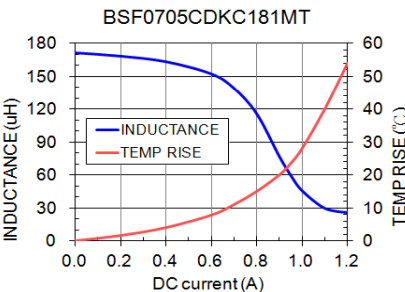
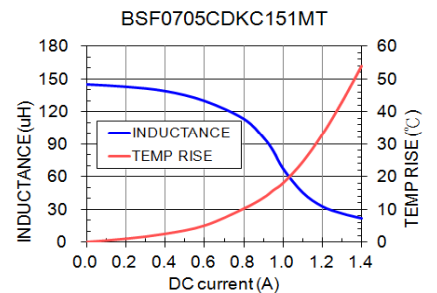
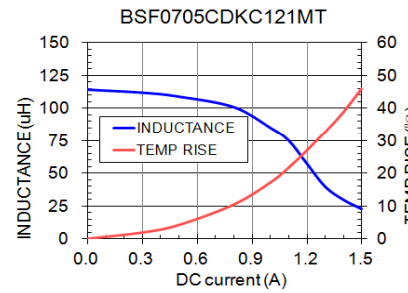
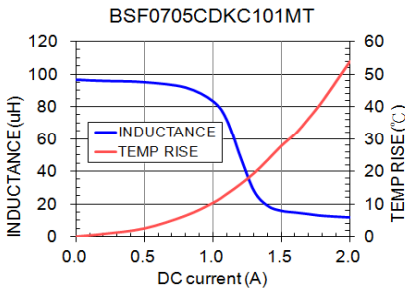
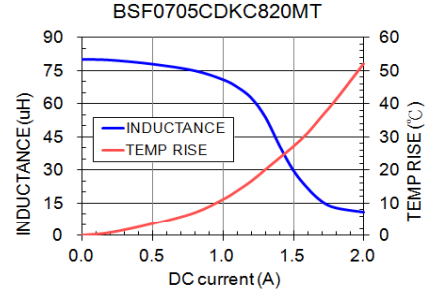
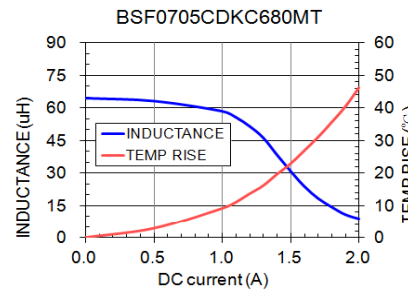
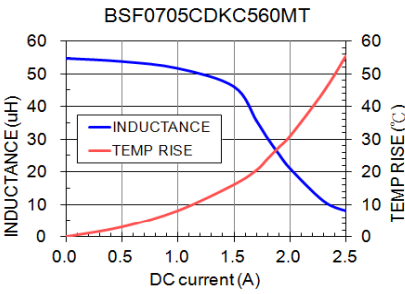
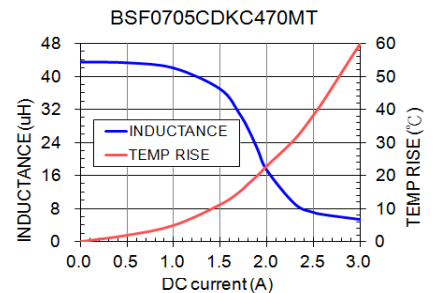
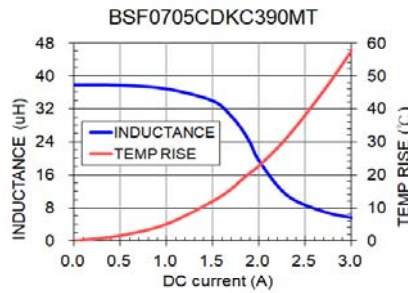
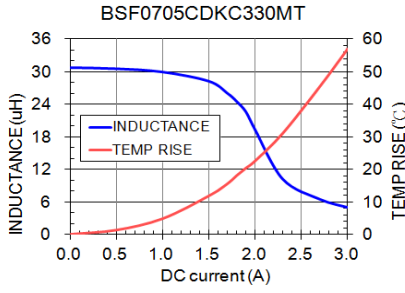


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SMD POWER INDUCTORS → BSF0705CDKC SERIES

ELECTRICAL CHARACTERISTIC



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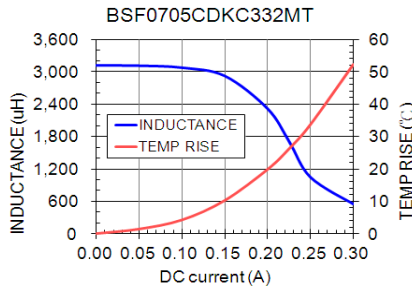
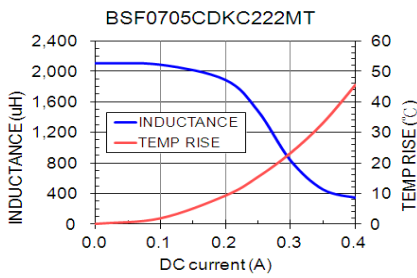
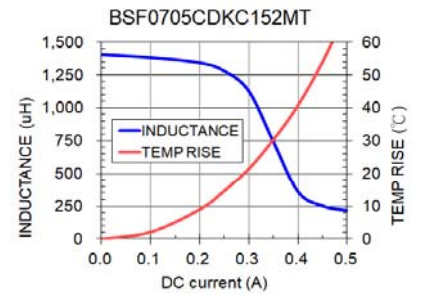
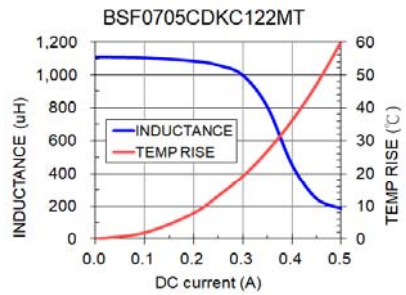
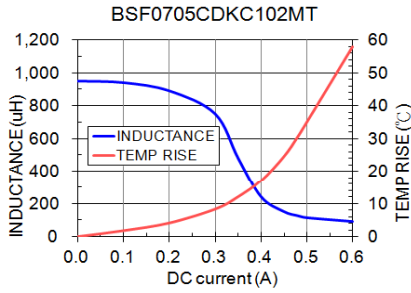
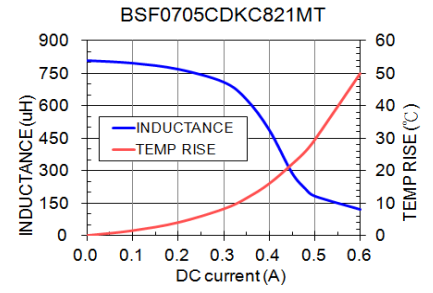
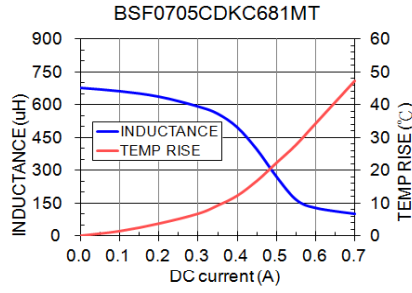
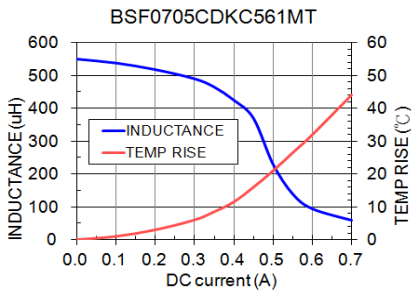


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SMD POWER INDUCTORS → BSF0705CDKC SERIES

ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSF1004CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF1004CDKC470MT	47	190	7	2.00	1.90
BSF1004CDKC560MT	56	210	5	1.70	1.85
BSF1004CDKC680MT	68	220	5	1.55	1.80
BSF1004CDKC820MT	82	250	5	1.40	1.75
BSF1004CDKC101MT	100	450	5	1.20	1.20
BSF1004CDKC121MT	120	500	2.5	1.15	1.10
BSF1004CDKC151MT	150	550	2.5	1.05	1.10
BSF1004CDKC181MT	180	650	2.5	1.00	1.05
BSF1004CDKC221MT	220	750	2.5	0.90	1.00
BSF1004CDKC271MT	270	850	2.5	0.83	1.00
BSF1004CDKC331MT	330	1200	1	0.74	0.67
BSF1004CDKC391MT	390	1300	1	0.70	0.65
BSF1004CDKC471MT	470	1800	1	0.65	0.64
BSF1004CDKC561MT	560	1900	1	0.60	0.60
BSF1004CDKC681MT	680	2200	1	0.52	0.58
BSF1004CDKC821MT	820	2500	1	0.46	0.56
BSF1004CDKC102MT	1000	3100	1	0.45	0.50
BSF1004CDKC122MT	1200	3400	0.7	0.34	0.47
BSF1004CDKC152MT	1500	4200	0.7	0.30	0.47
BSF1004CDKC182MT	1800	4700	0.7	0.27	0.45
BSF1004CDKC202MT	2000	5900	0.7	0.27	0.37

Test Freq.: 100KHz/1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-generated heat)

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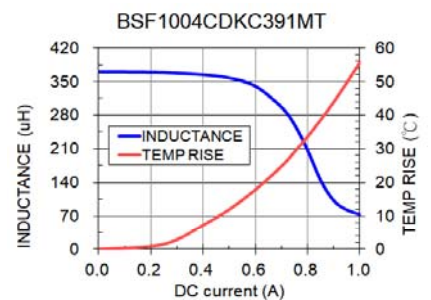
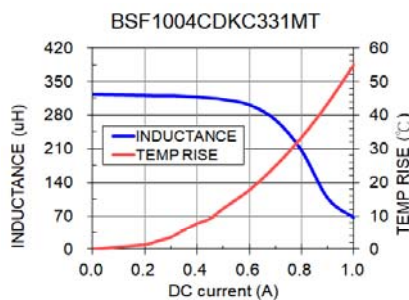
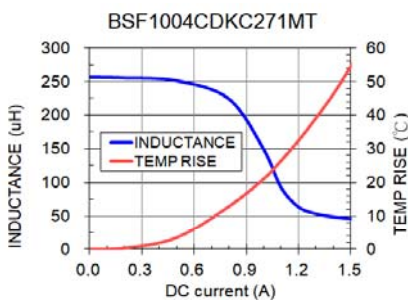
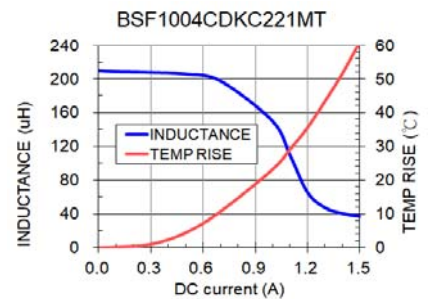
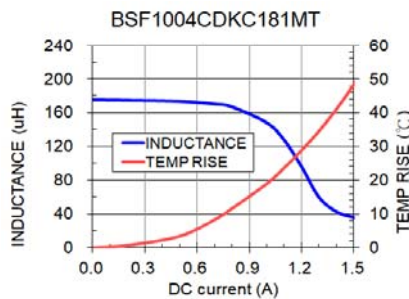
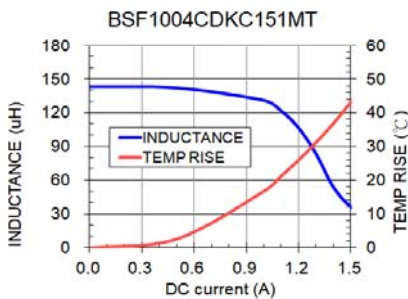
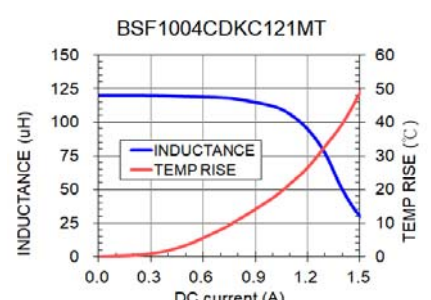
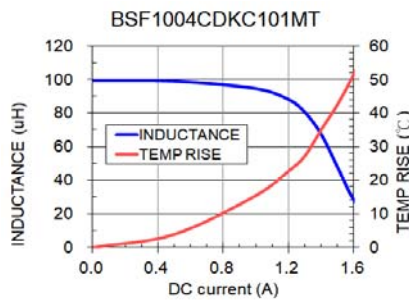
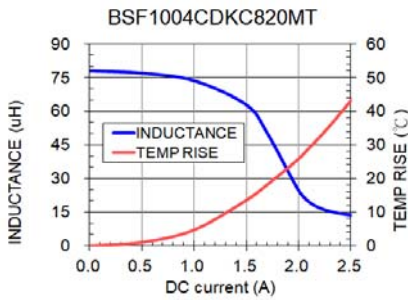
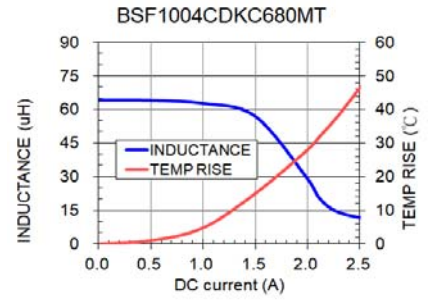
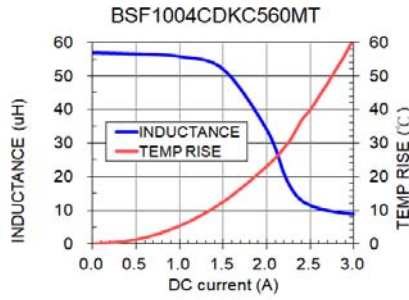
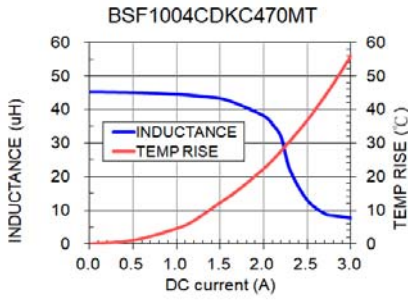


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SMD POWER INDUCTORS → BSF1004CDKC SERIES

ELECTRICAL CHARACTERISTIC



Test Freq.: 100KHz/1V

Tolerance: K±10%,M±20%

※Isat: Based on Inductance decrease 30%

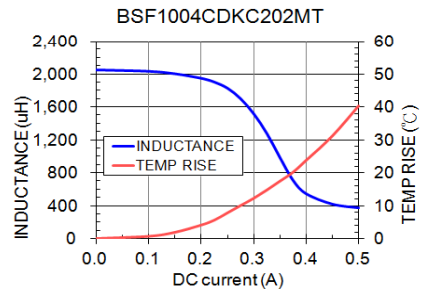
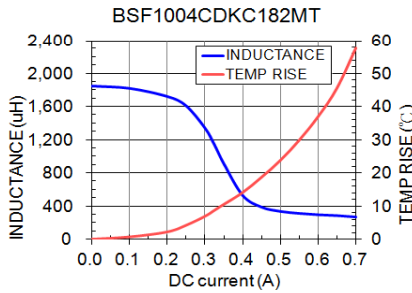
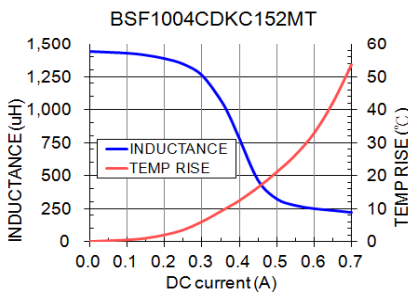
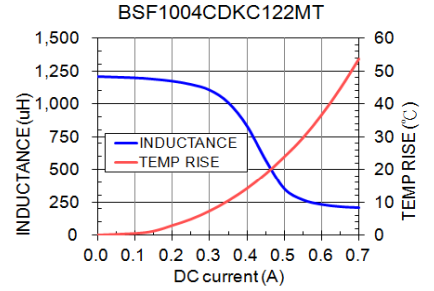
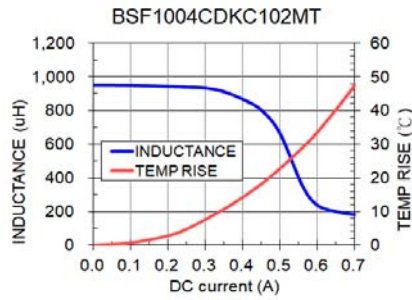
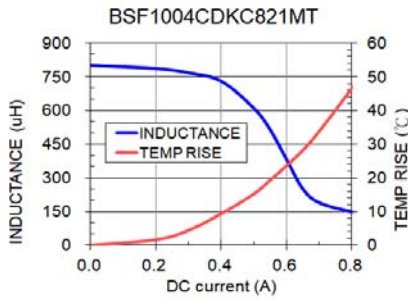
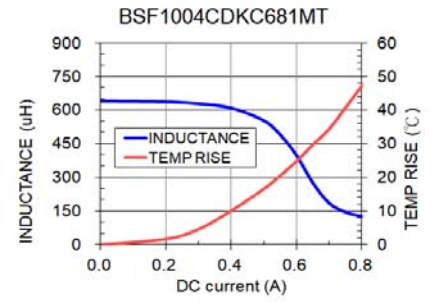
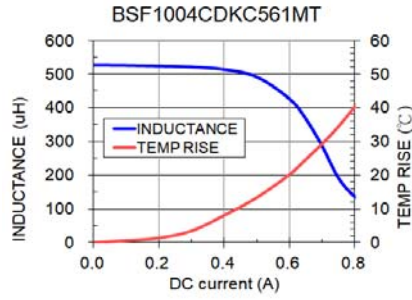
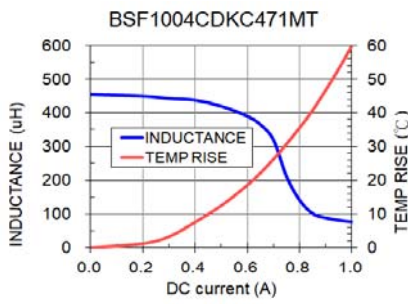
※IDC: Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-gener:

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SMD POWER INDUCTORS → BSF1004CDKC SERIES

ELECTRICAL CHARACTERISTIC



Test Freq.: 100KHz/1V

Tolerance: K±10%,M±20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

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SMD POWER INDUCTORS → BSF1005CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μH)	DC Resistance ($\text{m}\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF1005CDKC1R0MT	1.0	11	80	11.0	6.50
BSF1005CDKC1R5MT	1.5	15	60	8.75	6.20
BSF1005CDKC2R2MT	2.2	17	45	8.00	5.50
BSF1005CDKC3R3MT	3.3	21	30	6.50	5.20
BSF1005CDKC4R7MT	4.7	24	20	5.40	5.10
BSF1005CDKC5R6MT	5.6	26	13	5.00	5.00
BSF1005CDKC6R8MT	6.8	32	13	5.00	5.00
BSF1005CDKC100MT	10	40	13	4.35	4.80
BSF1005CDKC150MT	15	50	10	3.50	4.20
BSF1005CDKC220MT	22	65	7	3.05	3.40
BSF1005CDKC330MT	33	80	7	2.45	3.20
BSF1005CDKC470MT	47	120	5	2.00	2.20
BSF1005CDKC680MT	68	150	2.5	1.65	2.10
BSF1005CDKC820MT	82	195	2.5	1.50	2.00
BSF1005CDKC101MT	100	210	2.5	1.40	1.80
BSF1005CDKC181MT	180	390	1	1.10	1.40
BSF1005CDKC221MT	220	430	1	0.95	1.30
BSF1005CDKC271MT	270	720	1	0.90	1.10
BSF1005CDKC331MT	330	830	1	0.85	1.00
BSF1005CDKC391MT	390	940	1	0.80	0.95
BSF1005CDKC471MT	470	1050	1	0.75	0.90
BSF1005CDKC561MT	560	1550	0.7	0.65	0.75
BSF1005CDKC681MT	680	1750	0.7	0.60	0.70
BSF1005CDKC821MT	820	2000	0.7	0.55	0.65
BSF1005CDKC102MT	1000	2400	0.7	0.45	0.60

Test Freq.: 100KHz/1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

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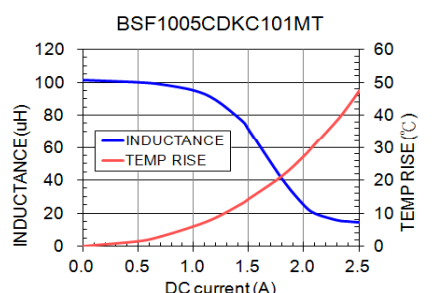
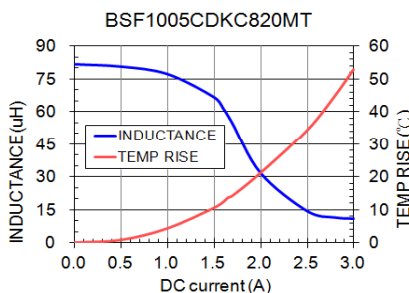
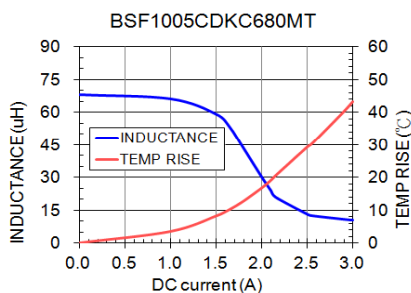
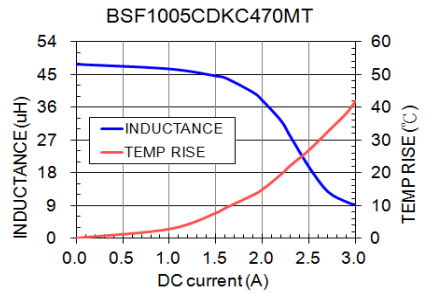
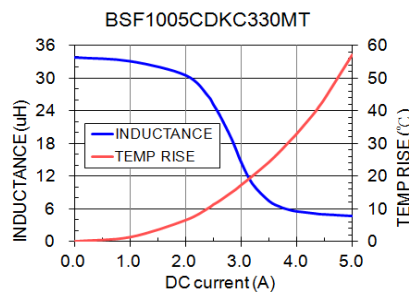
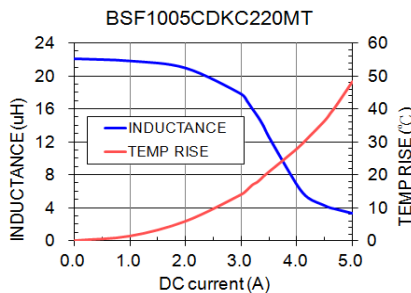
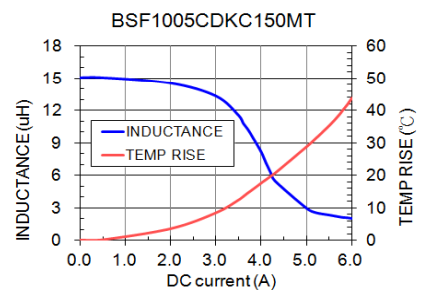
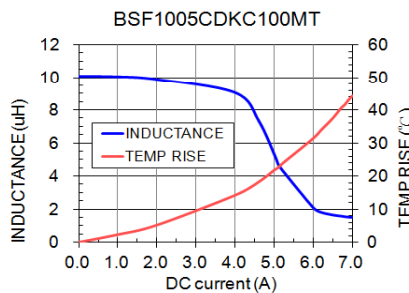
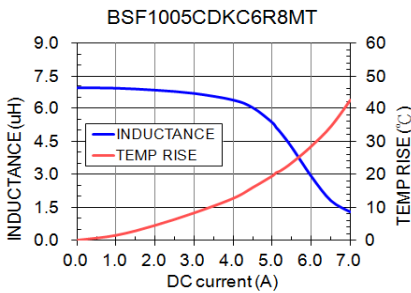
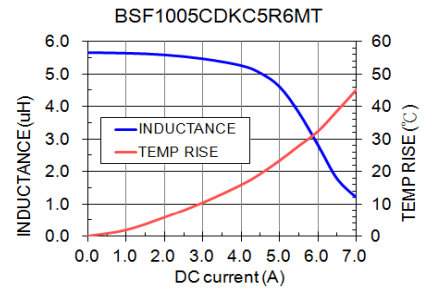
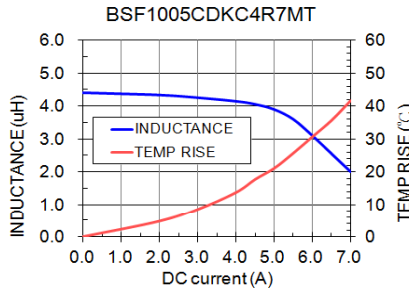
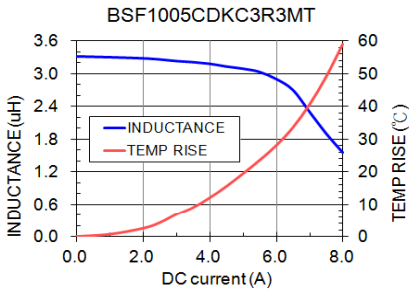
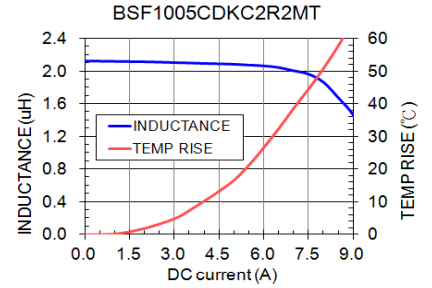
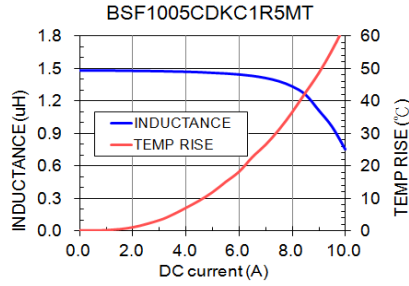
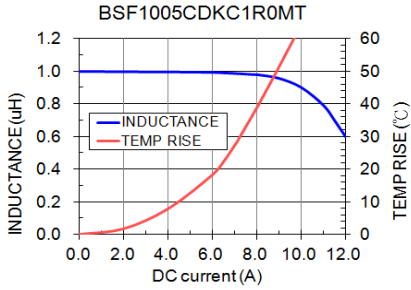


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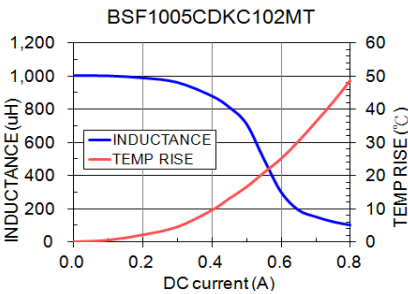
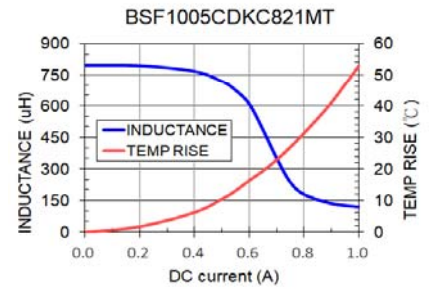
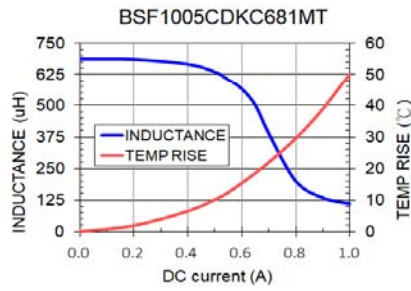
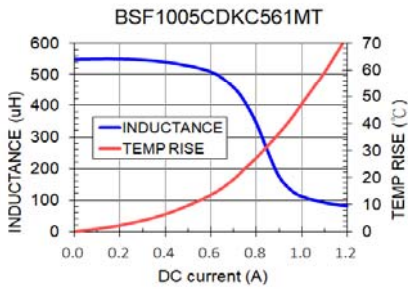
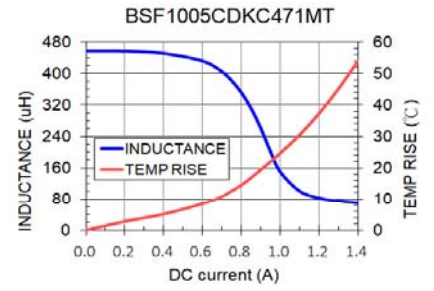
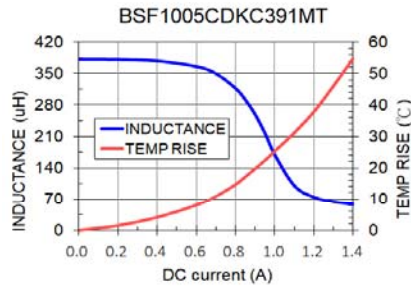
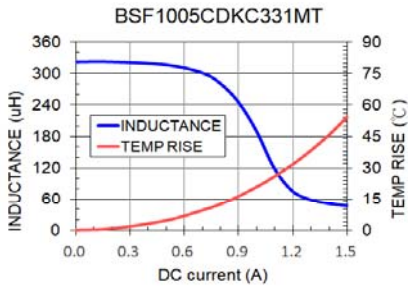
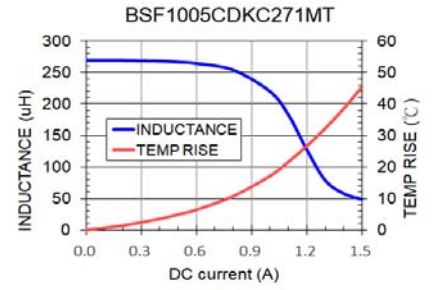
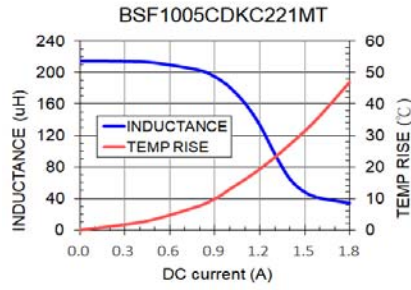
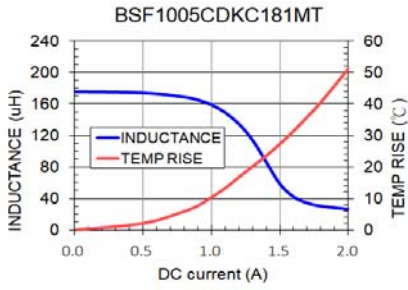
ELECTRICAL CHARACTERISTIC



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ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF1006CDKCR68MT	0.68	10	95	19.0	9.50
BSF1006CDKC1R0MT	1.0	14	75	16.0	9.00
BSF1006CDKC1R5MT	1.5	15	60	14.0	8.00
BSF1006CDKC2R2MT	2.2	17	50	11.0	7.50
BSF1006CDKC2R7MT	2.7	20	40	10.5	7.00
BSF1006CDKC3R3MT	3.3	20	35	10.0	6.50
BSF1006CDKC3R9MT	3.9	23	30	10.0	6.10
BSF1006CDKC4R7MT	4.7	27	25	9.00	6.00
BSF1006CDKC6R8MT	6.8	30	15	8.00	5.30
BSF1006CDKC100MT	10	39	10	6.80	5.00
BSF1006CDKC220MT	22	62	7	4.60	3.70
BSF1006CDKC330MT	33	75	5	3.80	3.30
BSF1006CDKC470MT	47	110	2.5	3.10	2.70
BSF1006CDKC560MT	56	150	2.5	3.00	2.30
BSF1006CDKC680MT	68	170	2.5	2.60	2.20
BSF1006CDKC820MT	82	180	2.5	2.40	2.10
BSF1006CDKC101MT	100	200	2.5	2.20	2.00
BSF1006CDKC151MT	150	320	2.5	1.90	1.70
BSF1006CDKC181MT	180	370	1	1.70	1.40
BSF1006CDKC221MT	220	530	1	1.45	1.20
BSF1006CDKC331MT	330	660	1	1.25	1.00
BSF1006CDKC471MT	470	1300	0.9	1.00	0.75
BSF1006CDKC681MT	680	1600	0.9	0.85	0.75
BSF1006CDKC102MT	1000	2000	0.7	0.67	0.60
BSF1006CDKC162MT	1600	4500	0.7	0.53	0.45
BSF1006CDKC222MT	2200	5000	0.7	0.50	0.40
BSF1006CDKC302MT	3000	7000	0.7	0.40	0.35

Test Freq.: 100KHz/1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

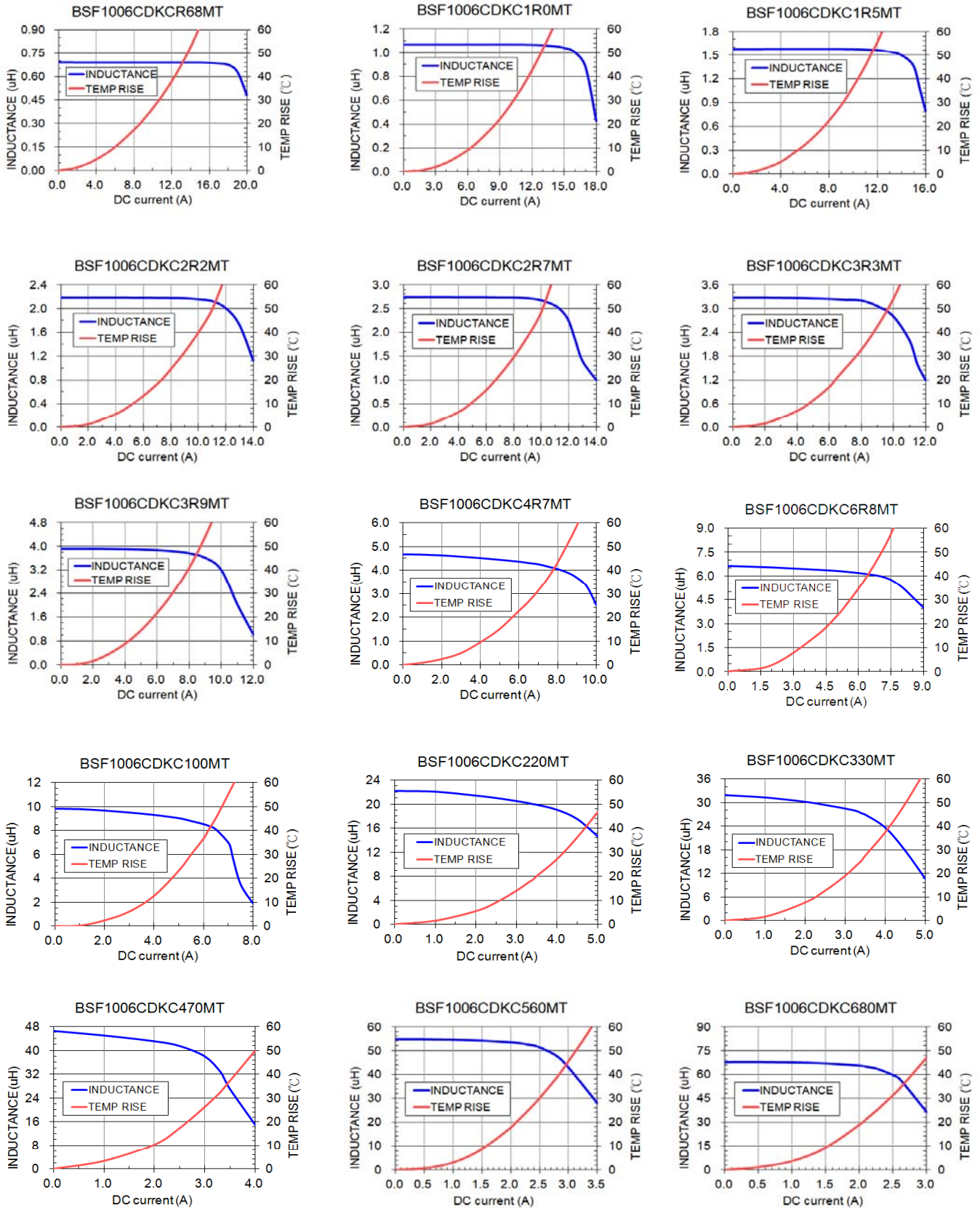
※IDC: Based on Temperature increase 40°C

※Operating temperature rar

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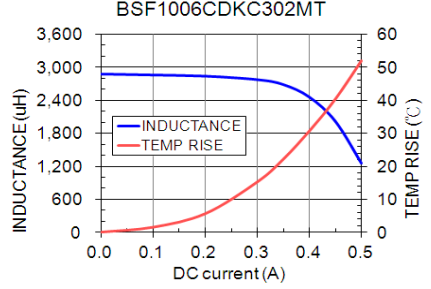
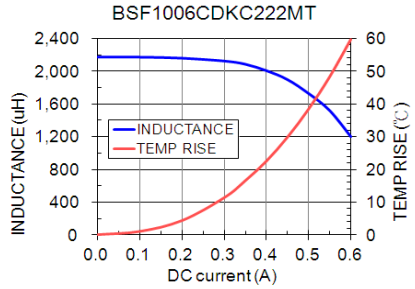
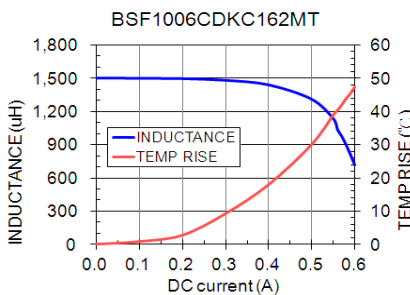
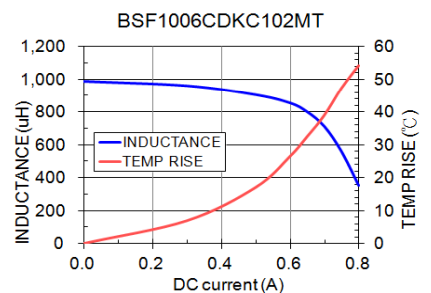
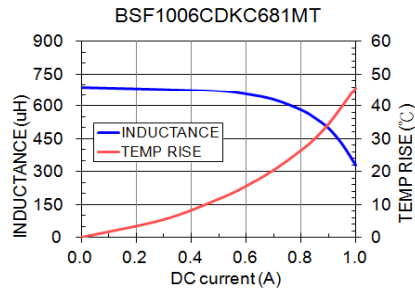
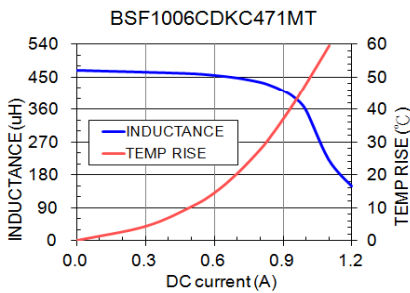
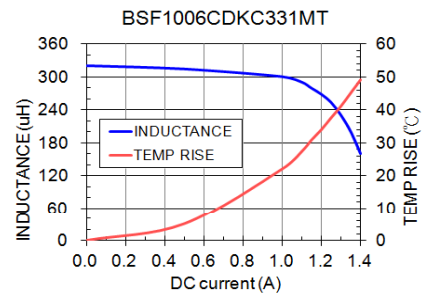
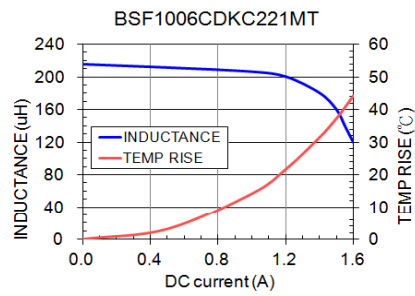
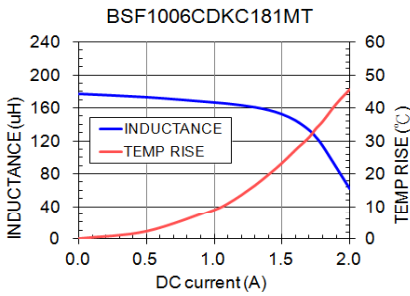
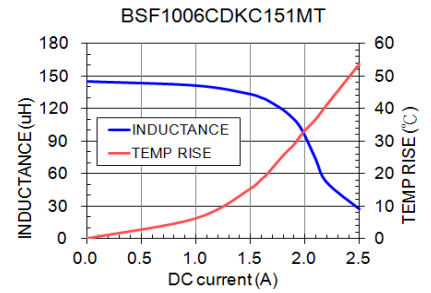
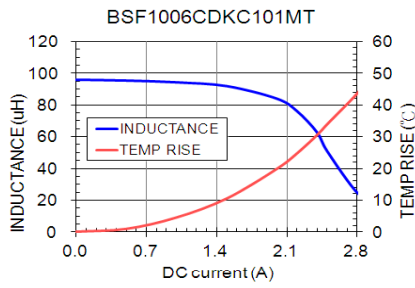
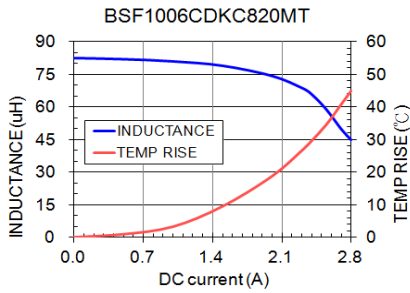
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