

SPECIFICATION OF BSFQ□□□□CDKC SERIES

AEC-Q200



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. Compatible with Pb-free RoHS and AEC-Q200.



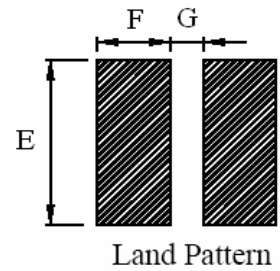
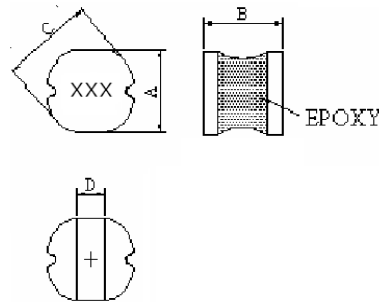
APPLICATIONS

1. Automotive application

ORDERING CODE

BSFQ0302CDKC 2R2 M T
 (1) (2) (3)(4)

- (1) PRODUCT TYPE CODE AND SIZE CODE
- (2) INDUCTANCE
- (3) INDUCTANCE TOLERANCE (K : ±10%, M : ±20%)
- (4) REEL TAPING



SHAPE & DIMENSIONS

UNIT:mm

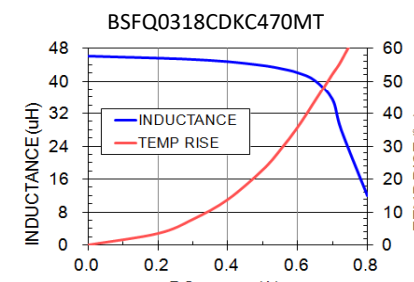
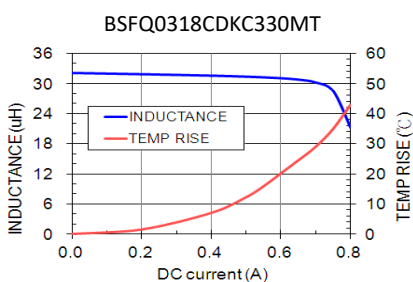
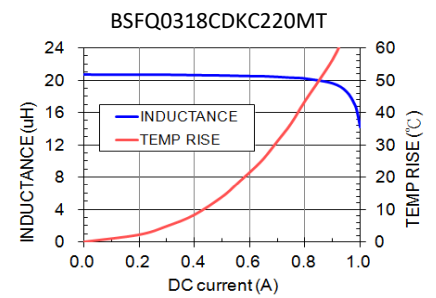
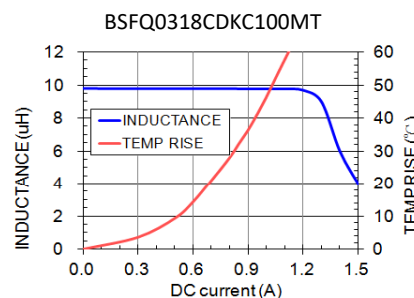
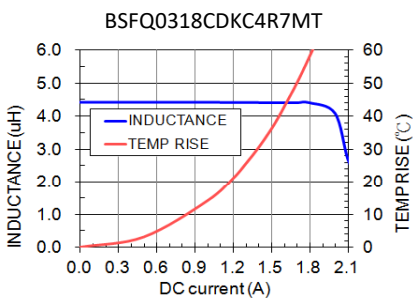
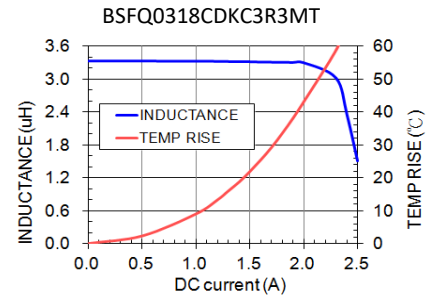
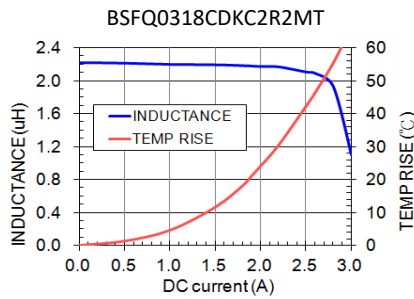
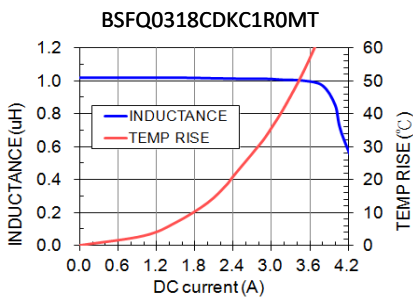
SIZE CODE	A	B	C	D Typ.	E	F	G		
BSFQ0318CDKC	3.0±0.3	1.9(max)	3.5±0.3	1.2	3.5	1.60	0.8		
BSFQ0302CDKC	3.0±0.3	2.3(max)	3.5±0.3	1.2	3.5	1.60	0.8		
BSFQ0402CDKC	4.0±0.3	2.2±0.3	4.5±0.3	1.5	4.5	2.10	0.8		
BSFQ0403CDKC	4.0±0.3	3.2±0.3	4.5±0.3	1.5	4.5	2.10	0.8		
BSFQ0502CDKC	5.2±0.3	2.5±0.3	5.8±0.3	2.0	5.5	2.25	1.5		
BSFQ0503CDKC	5.2±0.3	3.0±0.3	5.8±0.3	2.0	5.5	2.25	1.5		
BSFQ0504CDKC	5.2±0.3	4.5±0.3	5.8±0.3	2.0	5.5	2.25	1.5		
BSFQ0703CDKC	7.0±0.3	3.5±0.3	7.8±0.3	2.5	7.5	3.05	1.9		
BSFQ0705CDKC	7.0±0.3	5.0±0.3	7.8±0.3	2.5	7.5	3.05	1.9		
BSFQ1004CDKC	9.0±0.3	4.0±0.3	10.0±0.3	2.9	9.5	3.65	2.5		
BSFQ1005CDKC	9.0±0.3	5.4±0.3	10.0±0.3	2.9	9.5	3.65	2.5		
BSFQ1006CDKC	9.0±0.3	6.8±0.3	10.0±0.3	2.9	9.5	3.65	2.5		

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SMD POWER INDUCTORS → BSFQ0318CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μH)	DC Resistance ($\text{m}\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0318CDKC1R0MT	1.0	58	85	3.80	2.40
BSFQ0318CDKC2R2MT	2.2	115	45	2.60	1.90
BSFQ0318CDKC3R3MT	3.3	155	40	2.20	1.70
BSFQ0318CDKC4R7MT	4.7	200	35	1.90	1.35
BSFQ0318CDKC100MT	10	520	20	1.20	0.82
BSFQ0318CDKC220MT	22	950	15	0.85	0.68
BSFQ0318CDKC330MT	33	1500	10	0.70	0.60
BSFQ0318CDKC470MT	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 → BSFQ0302CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0302CDKC1R0MT	1.0	40	85	2.90	2.50
BSFQ0302CDKC1R2MT	1.2	45	80	2.90	2.30
BSFQ0302CDKC1R5MT	1.5	50	75	2.40	2.10
BSFQ0302CDKC1R8MT	1.8	60	60	2.20	2.00
BSFQ0302CDKC2R2MT	2.2	70	55	2.10	1.90
BSFQ0302CDKC2R7MT	2.7	95	40	1.90	1.80
BSFQ0302CDKC3R3MT	3.3	110	40	1.90	1.80
BSFQ0302CDKC3R9MT	3.9	120	40	1.70	1.60
BSFQ0302CDKC4R7MT	4.7	125	35	1.60	1.55
BSFQ0302CDKC5R6MT	5.6	140	30	1.40	1.50
BSFQ0302CDKC6R8MT	6.8	160	25	1.35	1.50
BSFQ0302CDKC8R2MT	8.2	230	25	1.10	1.20
BSFQ0302CDKC100MT	10	300	20	1.10	1.15
BSFQ0302CDKC120MT	12	320	20	0.93	1.00
BSFQ0302CDKC150MT	15	400	15	0.85	0.90
BSFQ0302CDKC180MT	18	470	15	0.84	0.80
BSFQ0302CDKC220MT	22	630	15	0.71	0.67
BSFQ0302CDKC270MT	27	720	10	0.66	0.66
BSFQ0302CDKC330MT	33	880	10	0.60	0.65
BSFQ0302CDKC390MT	39	950	7	0.55	0.60
BSFQ0302CDKC470MT	47	1150	7	0.51	0.55
BSFQ0302CDKC560MT	56	1400	7	0.47	0.50
BSFQ0302CDKC680MT	68	1700	7	0.42	0.48
BSFQ0302CDKC820MT	82	2100	7	0.38	0.39
BSFQ0302CDKC101MT	100	2400	7	0.36	0.37
BSFQ0302CDKC121MT	120	3400	5	0.33	0.32
BSFQ0302CDKC151MT	150	3800	2.5	0.29	0.27
BSFQ0302CDKC181MT	180	4500	2.5	0.28	0.26
BSFQ0302CDKC221MT	220	5000	2.5	0.25	0.23
BSFQ0302CDKC271MT	270	8000	2.5	0.23	0.22
BSFQ0302CDKC331MT	330	9000	2.5	0.19	0.21
BSFQ0302CDKC391MT	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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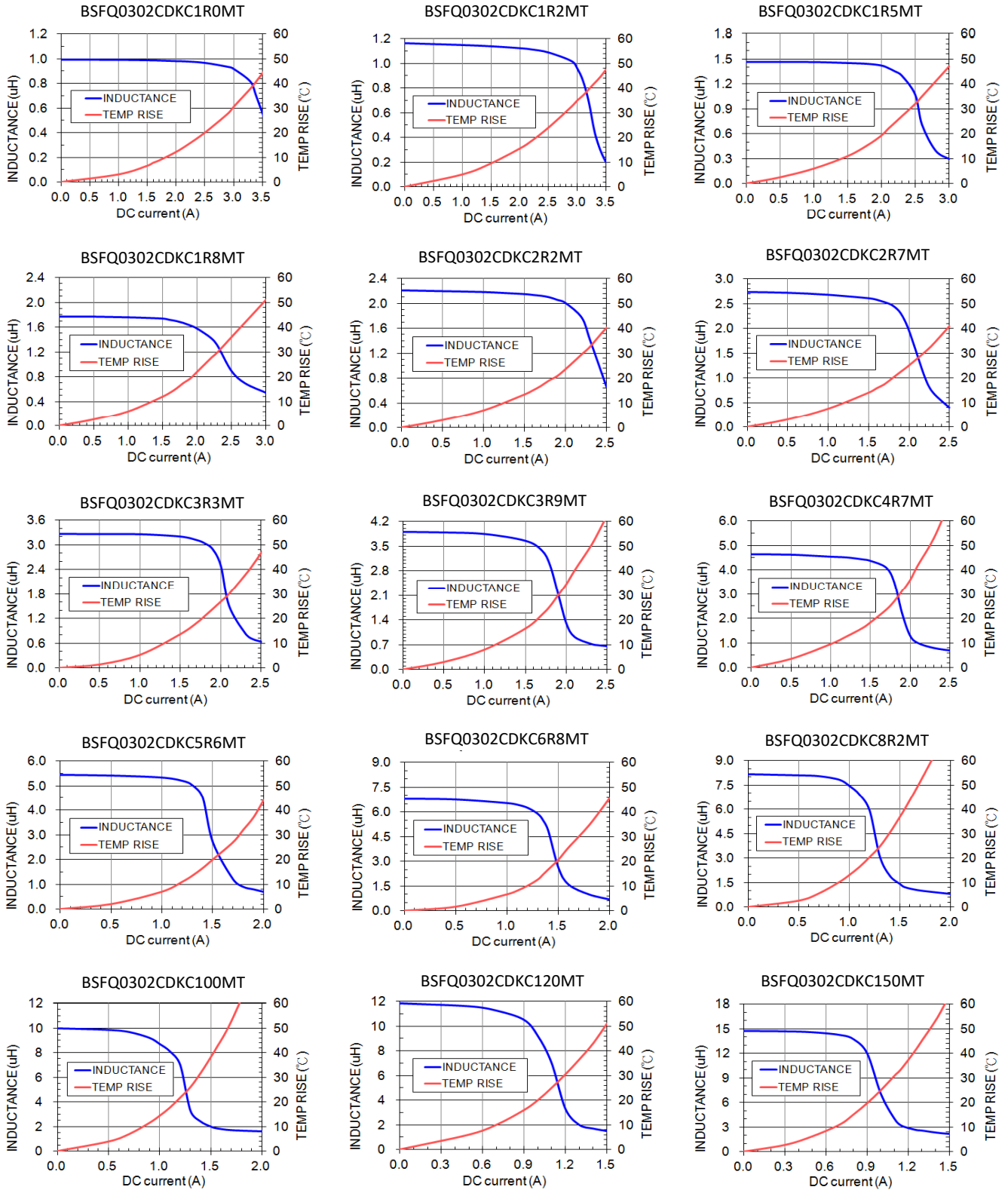


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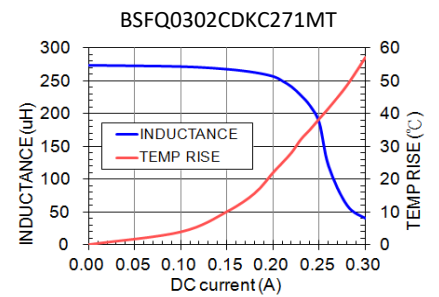
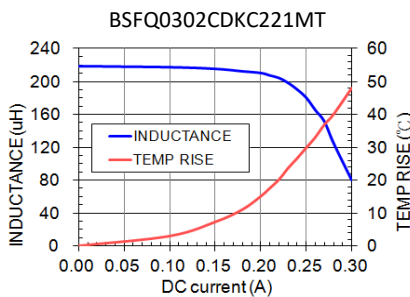
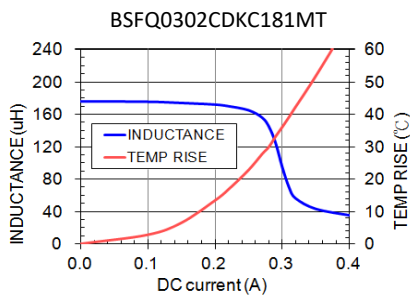
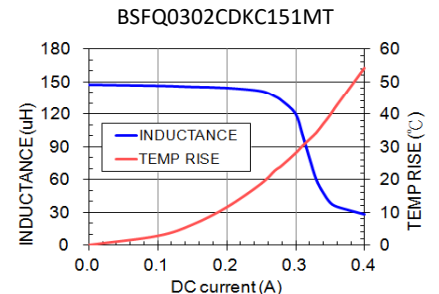
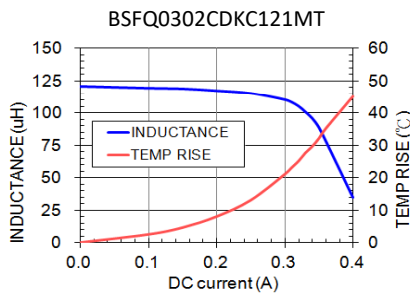
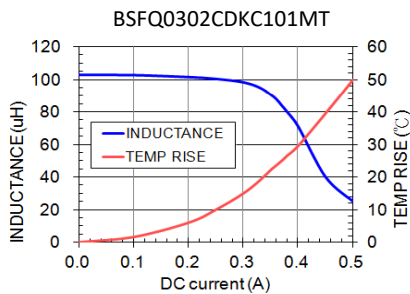
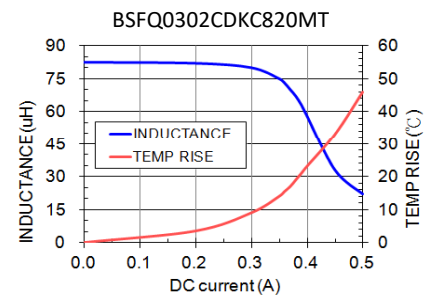
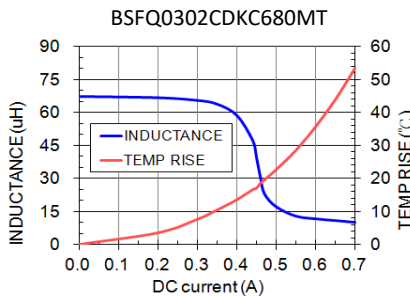
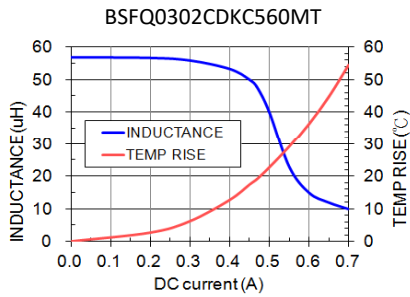
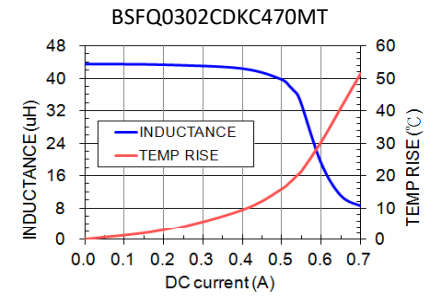
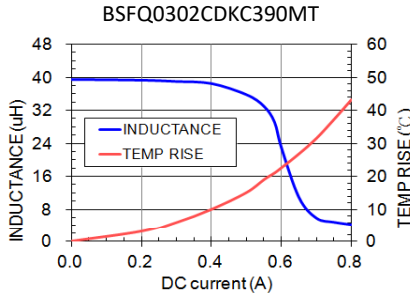
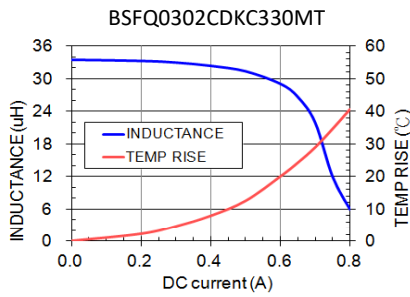
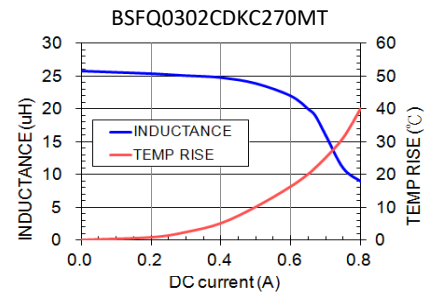
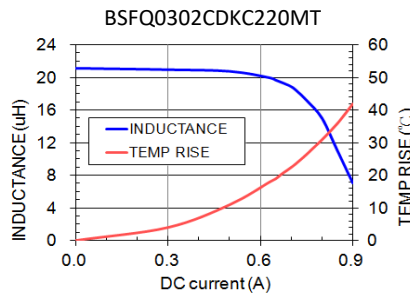
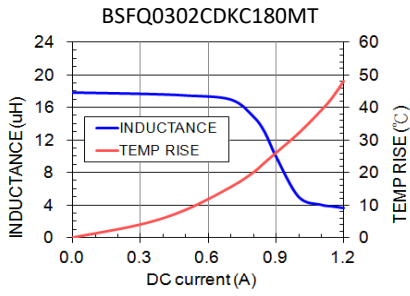
ELECTRICAL CHARACTERISTIC



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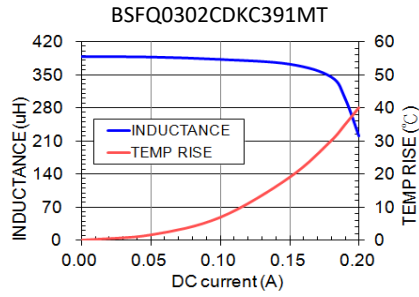
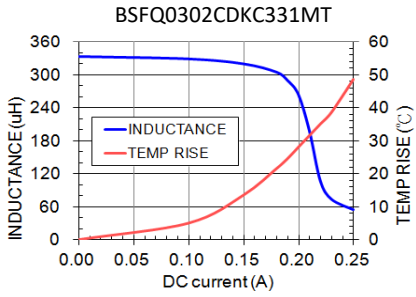
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ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0402CDKC1R0MT	1.0	40	75	3.85	3.20
BSFQ0402CDKC1R2MT	1.2	45	65	3.90	3.20
BSFQ0402CDKC1R5MT	1.5	50	60	3.30	3.10
BSFQ0402CDKC1R8MT	1.8	55	50	3.20	2.90
BSFQ0402CDKC2R2MT	2.2	65	45	3.00	2.70
BSFQ0402CDKC2R7MT	2.7	70	40	2.90	2.60
BSFQ0402CDKC3R3MT	3.3	80	35	2.60	2.40
BSFQ0402CDKC3R9MT	3.9	110	35	2.30	2.00
BSFQ0402CDKC4R7MT	4.7	120	30	2.05	1.90
BSFQ0402CDKC5R6MT	5.6	130	30	1.95	1.80
BSFQ0402CDKC6R8MT	6.8	150	25	1.90	1.70
BSFQ0402CDKC8R2MT	8.2	170	25	1.70	1.60
BSFQ0402CDKC100MT	10	220	15	1.55	1.50
BSFQ0402CDKC120MT	12	250	15	1.40	1.30
BSFQ0402CDKC150MT	15	280	15	1.30	1.30
BSFQ0402CDKC180MT	18	320	13	1.20	1.20
BSFQ0402CDKC220MT	22	350	13	1.10	1.10
BSFQ0402CDKC270MT	27	450	10	1.00	1.00
BSFQ0402CDKC330MT	33	550	10	0.94	0.95
BSFQ0402CDKC390MT	39	600	10	0.87	0.88
BSFQ0402CDKC470MT	47	800	7	0.80	0.85
BSFQ0402CDKC560MT	56	1000	7	0.70	0.70
BSFQ0402CDKC680MT	68	1100	7	0.62	0.64
BSFQ0402CDKC820MT	82	1700	7	0.55	0.54
BSFQ0402CDKC101MT	100	2000	5	0.53	0.49
BSFQ0402CDKC121MT	120	2200	5	0.47	0.48
BSFQ0402CDKC151MT	150	2700	5	0.42	0.43
BSFQ0402CDKC181MT	180	3300	2.5	0.38	0.39
BSFQ0402CDKC221MT	220	3700	2.5	0.35	0.37
BSFQ0402CDKC271MT	270	5500	2.5	0.31	0.34
BSFQ0402CDKC331MT	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%

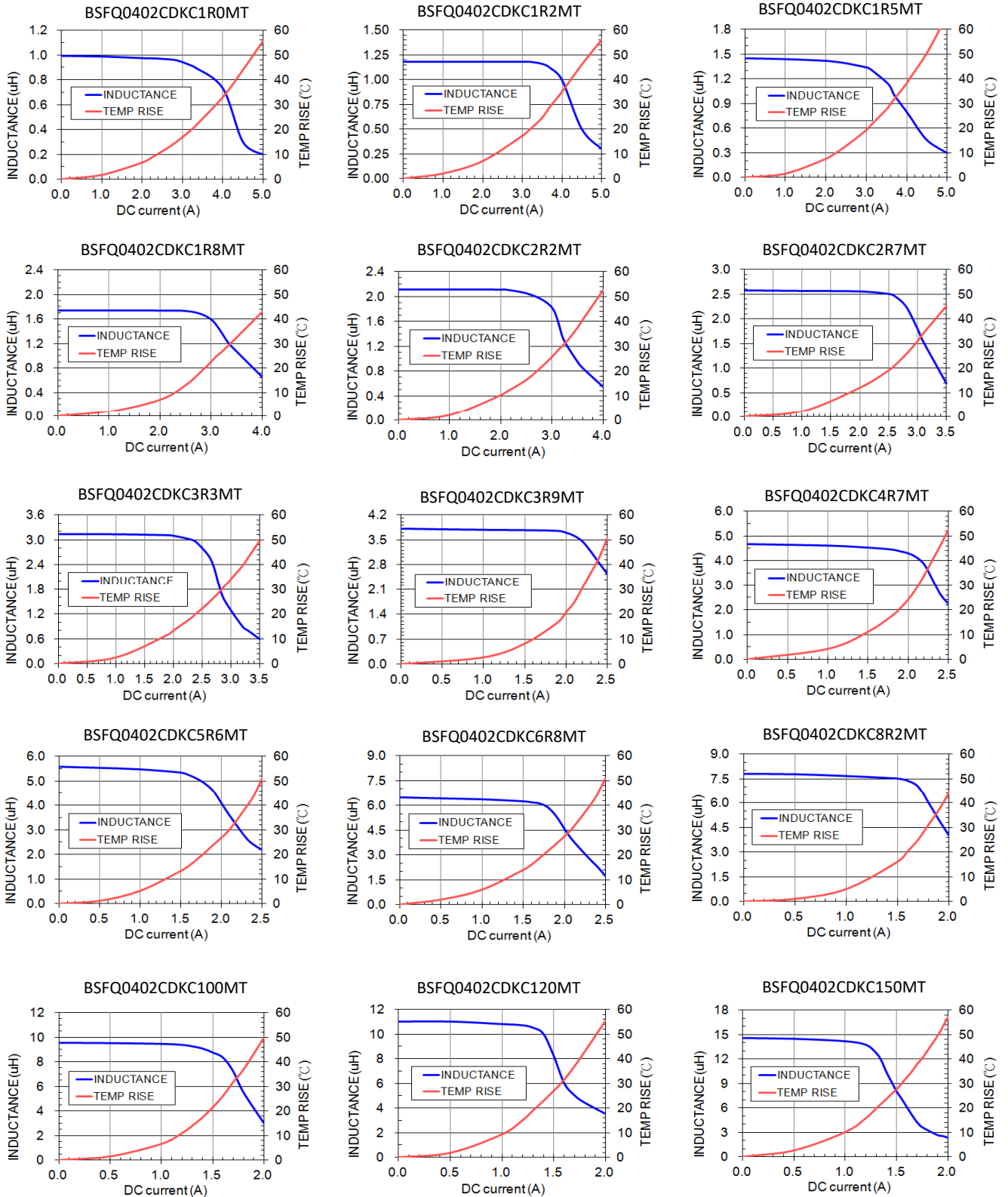
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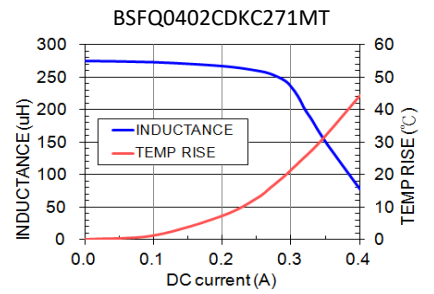
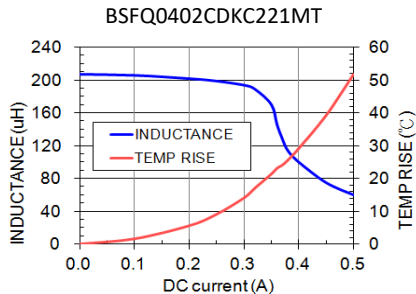
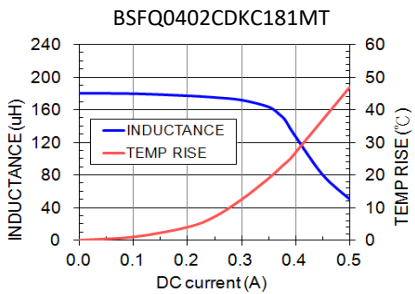
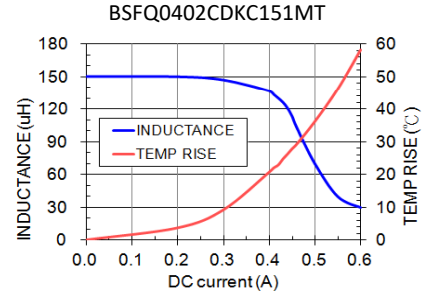
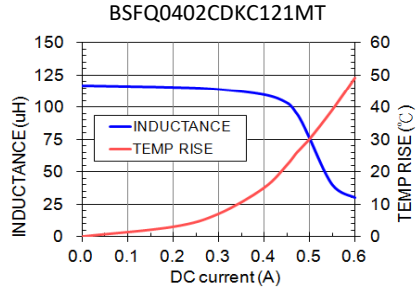
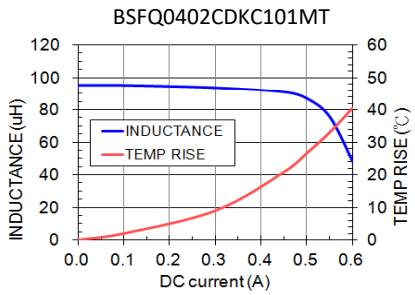
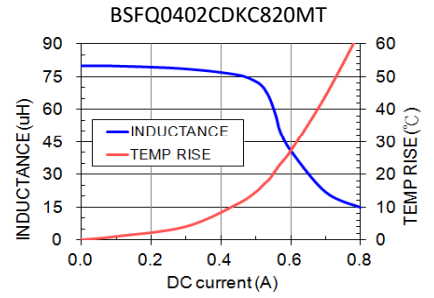
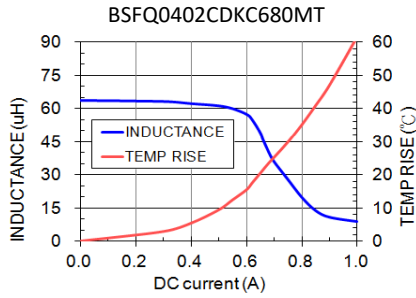
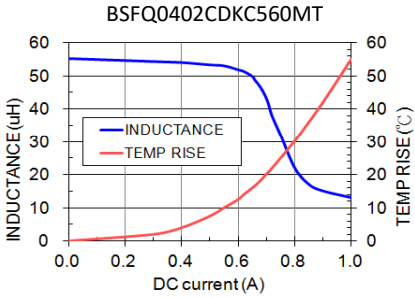
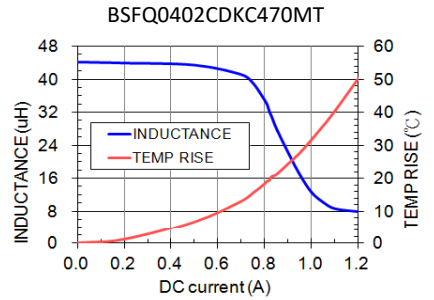
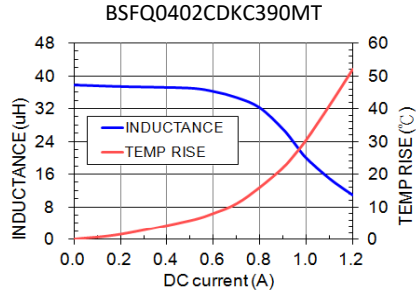
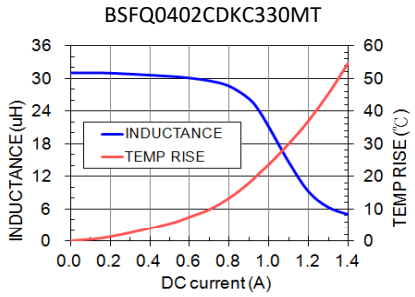
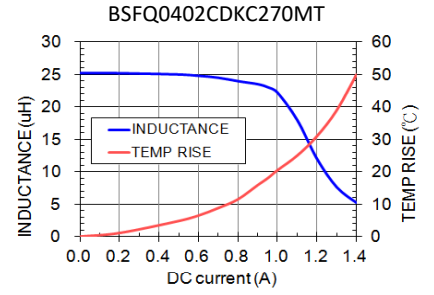
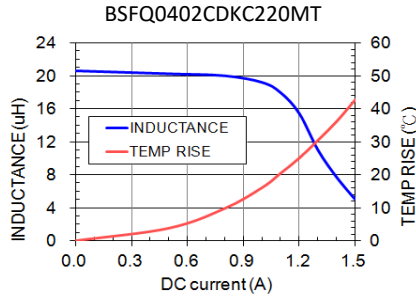
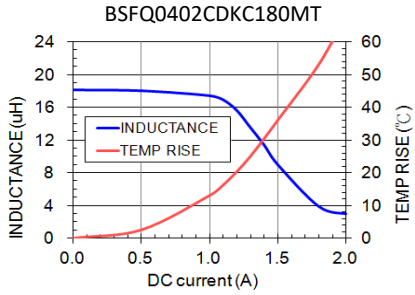
ELECTRICAL CHARACTERISTIC



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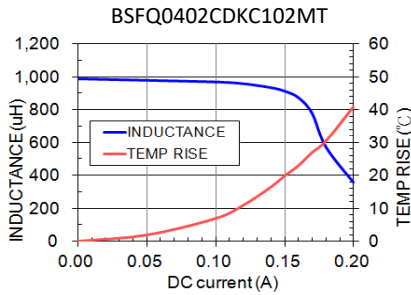
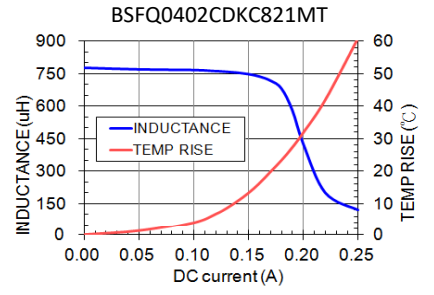
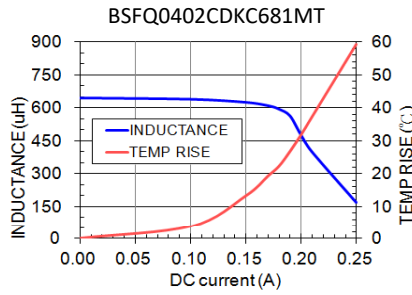
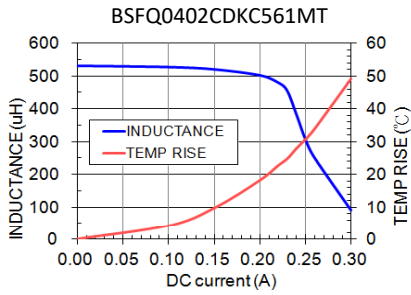
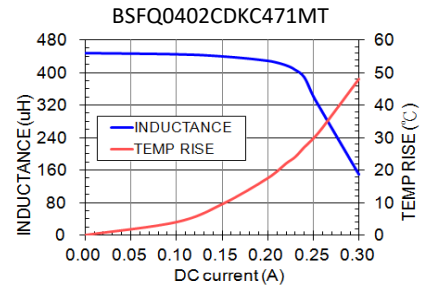
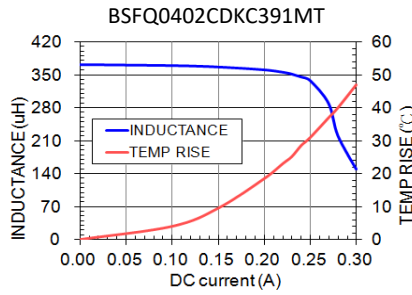
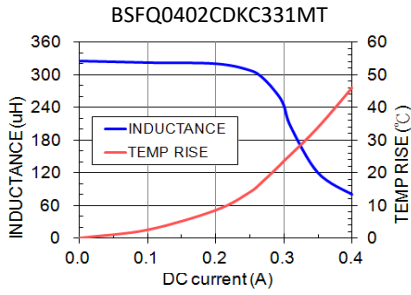
ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSFQ0402CDKC SERIES

ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSFQ0403CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0403CDKC1R0MT	1.0	26	95	5.00	3.80
BSFQ0403CDKC1R5MT	1.5	36	60	4.50	3.20
BSFQ0403CDKC2R2MT	2.2	45	50	3.60	3.20
BSFQ0403CDKC3R3MT	3.3	60	40	2.90	2.80
BSFQ0403CDKC3R9MT	3.9	70	30	2.50	2.50
BSFQ0403CDKC4R7MT	4.7	80	30	2.40	2.50
BSFQ0403CDKC5R6MT	5.6	90	25	2.20	2.30
BSFQ0403CDKC6R8MT	6.8	110	20	2.00	2.10
BSFQ0403CDKC100MT	10.0	130	15	1.80	1.60
BSFQ0403CDKC120MT	12.0	180	15	1.65	1.50
BSFQ0403CDKC150MT	15.0	200	15	1.50	1.40
BSFQ0403CDKC180MT	18.0	250	13	1.30	1.40
BSFQ0403CDKC220MT	22.0	330	13	1.25	1.15
BSFQ0403CDKC270MT	27.0	370	10	1.10	1.10
BSFQ0403CDKC330MT	33.0	500	10	1.00	1.00
BSFQ0403CDKC390MT	39.0	550	10	0.90	0.95
BSFQ0403CDKC470MT	47.0	600	7	0.85	0.90
BSFQ0403CDKC560MT	56.0	820	7	0.75	0.70
BSFQ0403CDKC680MT	68.0	950	7	0.70	0.62
BSFQ0403CDKC101MT	100	1200	5	0.60	0.60
BSFQ0403CDKC121MT	120	1750	2.5	0.50	0.55
BSFQ0403CDKC151MT	150	1900	2.5	0.45	0.50
BSFQ0403CDKC181MT	180	2200	2.5	0.43	0.47
BSFQ0403CDKC221MT	220	2700	2.5	0.38	0.45
BSFQ0403CDKC271MT	270	3700	1	0.34	0.37
BSFQ0403CDKC331MT	330	4000	1	0.32	0.35
BSFQ0403CDKC391MT	390	5500	1	0.30	0.30
BSFQ0403CDKC471MT	470	6500	1	0.26	0.25
BSFQ0403CDKC561MT	560	7500	1	0.25	0.24
BSFQ0403CDKC821MT	820	11000	1	0.21	0.20
BSFQ0403CDKC102MT	1000	12000	1	0.20	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°C

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

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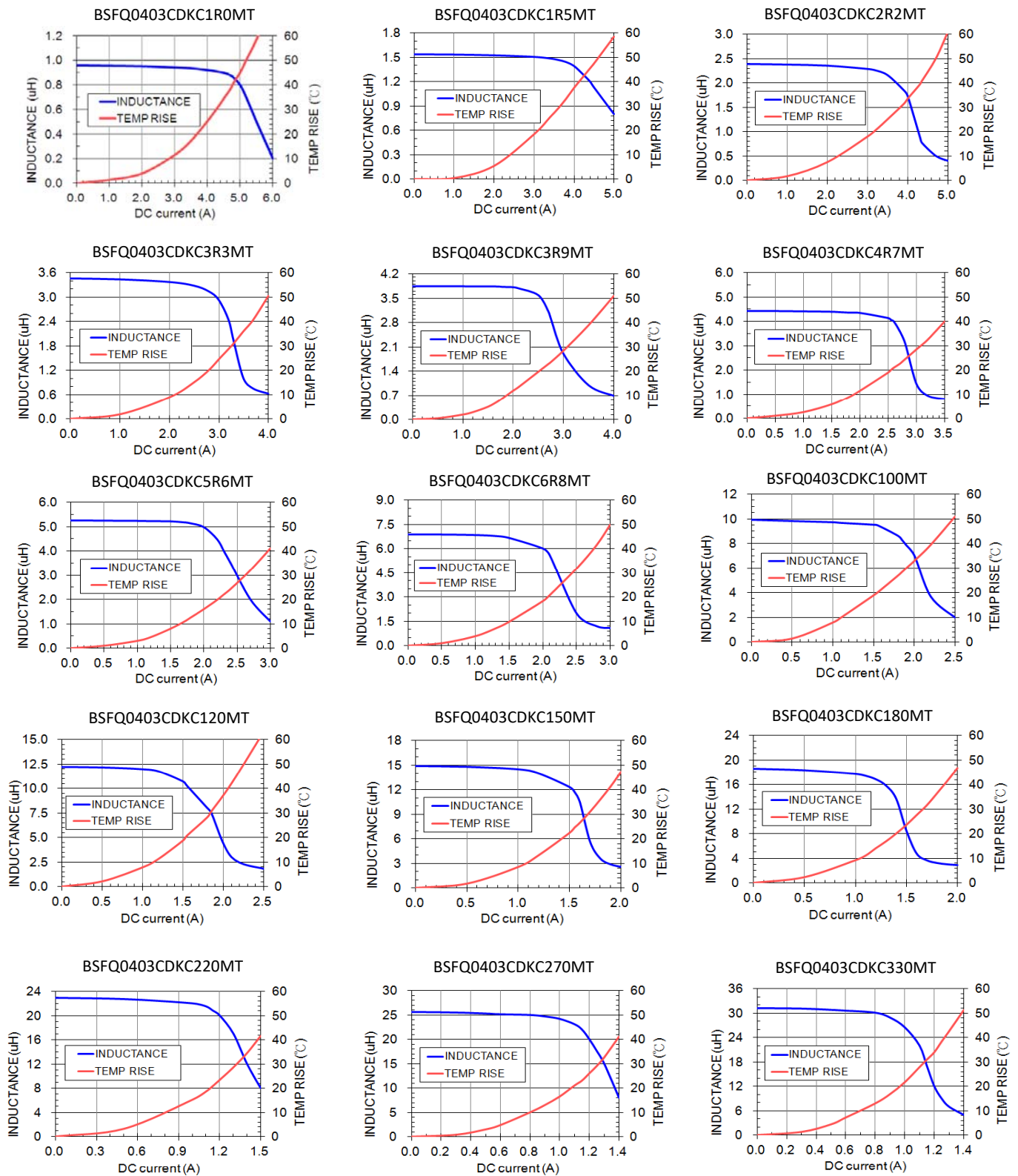


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SMD POWER INDUCTORS → BSFQ0403CDKC SERIES

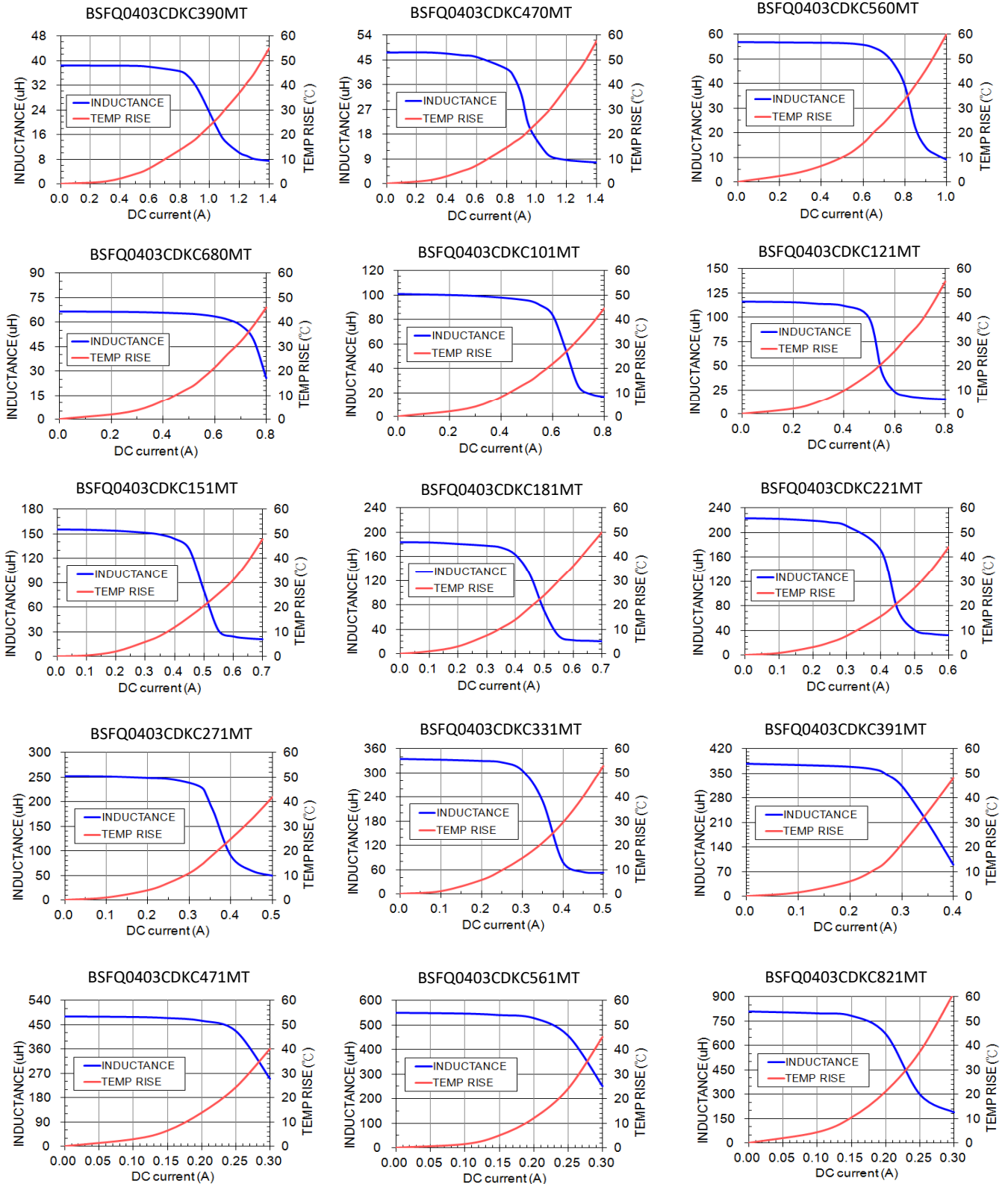
ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSFQ0403CDKC SERIES

ELECTRICAL CHARACTERISTIC



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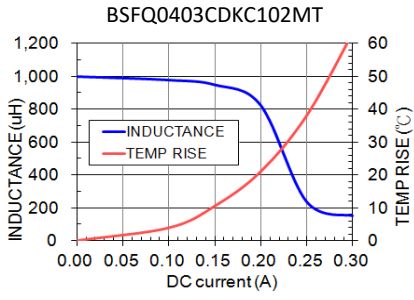


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SMD POWER INDUCTORS → BSFQ0403CDKC SERIES

ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSFQ0502CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0502CDKC1R0MT	1.0	25	70	4.90	4.20
BSFQ0502CDKC1R2MT	1.2	28	65	4.10	4.10
BSFQ0502CDKC1R5MT	1.5	30	55	4.05	4.00
BSFQ0502CDKC1R8MT	1.8	35	50	4.00	3.95
BSFQ0502CDKC2R2MT	2.2	40	45	3.35	3.90
BSFQ0502CDKC2R7MT	2.7	45	45	3.20	3.85
BSFQ0502CDKC3R3MT	3.3	50	40	3.00	3.80
BSFQ0502CDKC3R9MT	3.9	60	35	2.75	3.30
BSFQ0502CDKC4R7MT	4.7	80	30	2.45	3.10
BSFQ0502CDKC5R6MT	5.6	85	25	2.30	3.00
BSFQ0502CDKC6R8MT	6.8	90	25	2.10	3.00
BSFQ0502CDKC8R2MT	8.2	105	20	1.80	2.70
BSFQ0502CDKC100MT	10	140	20	1.75	2.30
BSFQ0502CDKC120MT	12	150	15	1.50	2.00
BSFQ0502CDKC150MT	15	160	15	1.40	1.90
BSFQ0502CDKC180MT	18	220	13	1.30	1.50
BSFQ0502CDKC220MT	22	250	13	1.25	1.40
BSFQ0502CDKC270MT	27	280	10	1.00	1.35
BSFQ0502CDKC330MT	33	330	7	0.965	1.35
BSFQ0502CDKC390MT	39	430	7	0.90	1.20
BSFQ0502CDKC470MT	47	500	7	0.76	1.10
BSFQ0502CDKC560MT	56	600	7	0.75	1.00
BSFQ0502CDKC680MT	68	700	7	0.74	0.95
BSFQ0502CDKC820MT	82	850	5	0.63	0.80
BSFQ0502CDKC101MT	100	1150	5	0.55	0.75
BSFQ0502CDKC121MT	120	1400	5	0.54	0.66
BSFQ0502CDKC151MT	150	1500	2.5	0.46	0.60
BSFQ0502CDKC181MT	180	1700	2.5	0.45	0.58
BSFQ0502CDKC221MT	220	2500	2.5	0.39	0.56
BSFQ0502CDKC271MT	270	3000	2.5	0.35	0.45
BSFQ0502CDKC331MT	330	3500	2.5	0.33	0.39
BSFQ0502CDKC391MT	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%

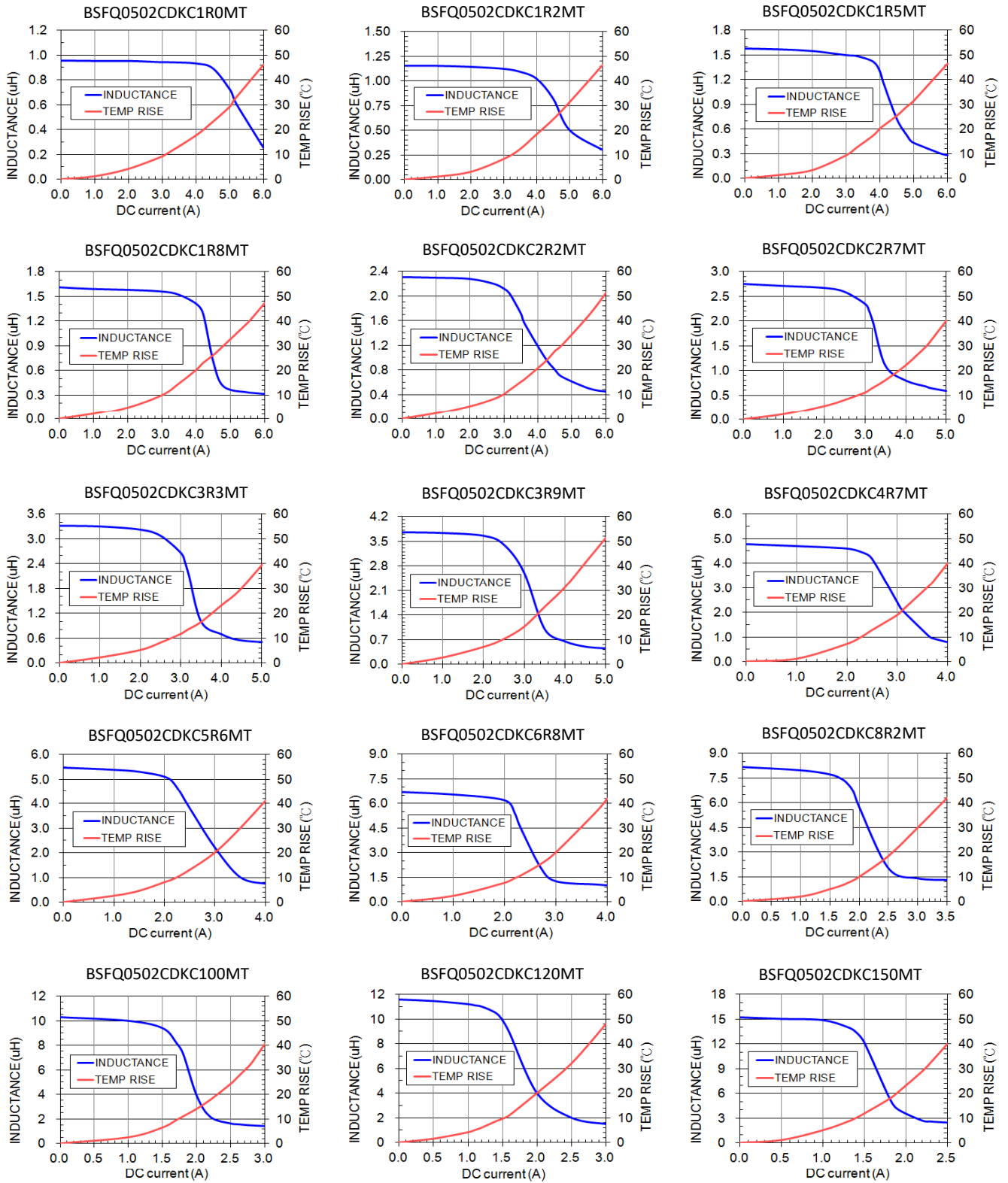
※IDC: Based on Temperature increase 40°C

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

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SMD POWER INDUCTORS → BSFQ0502CDKC SERIES

ELECTRICAL CHARACTERISTIC



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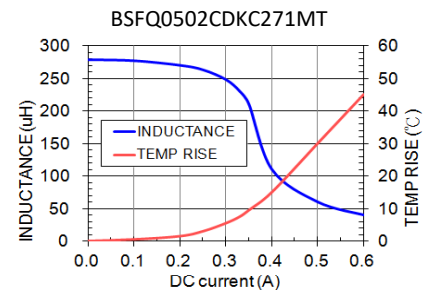
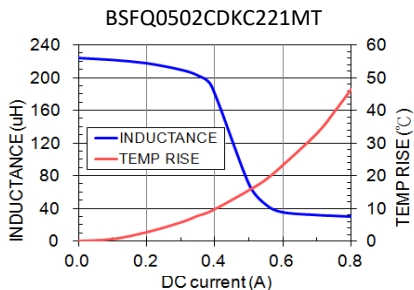
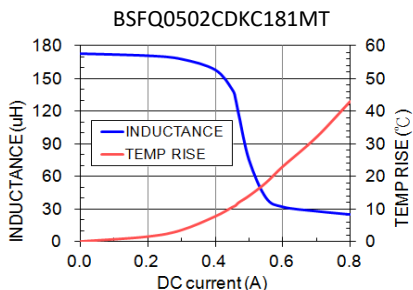
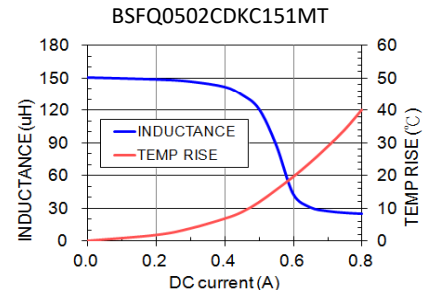
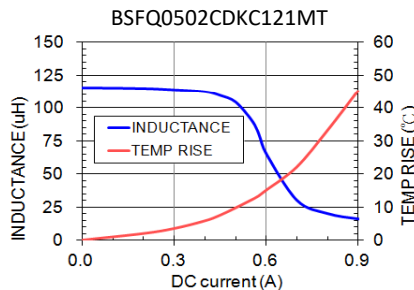
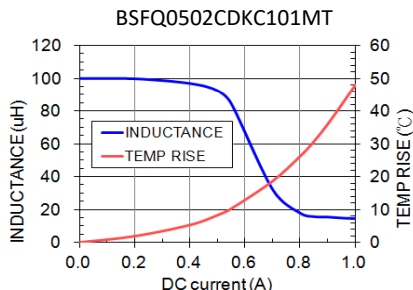
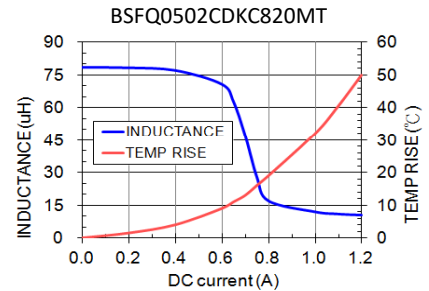
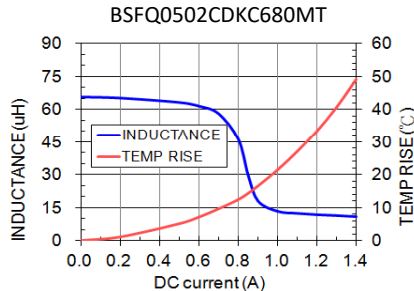
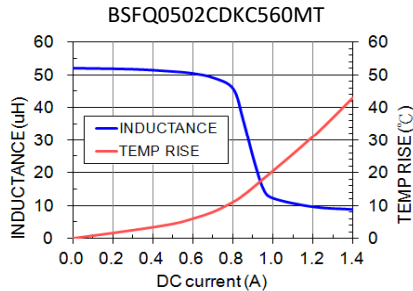
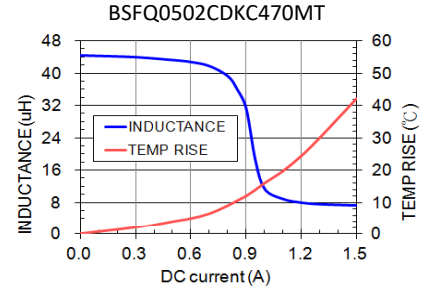
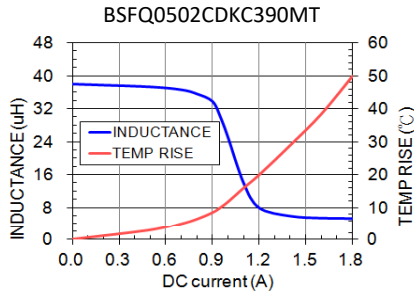
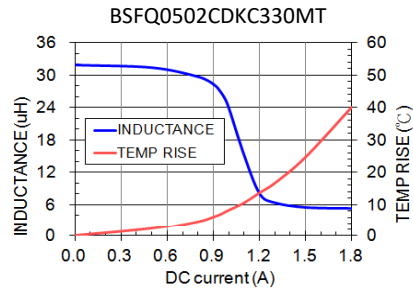
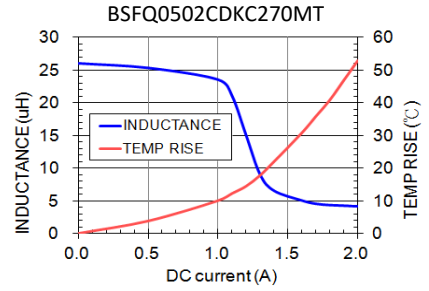
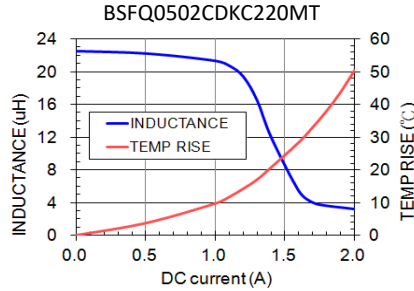
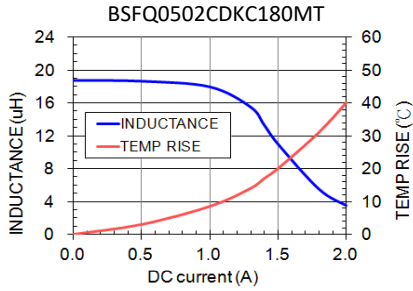


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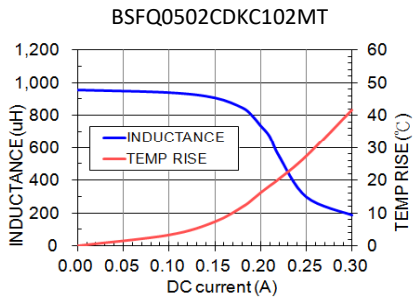
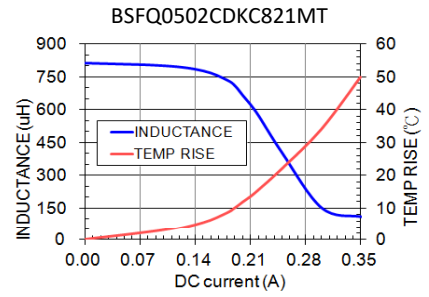
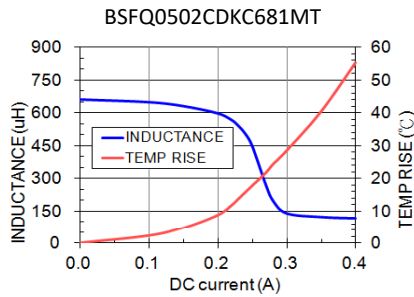
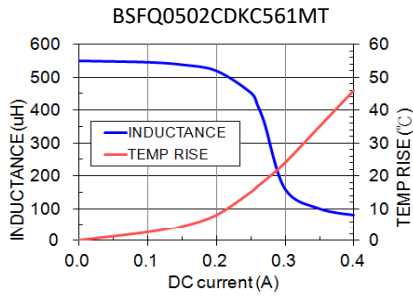
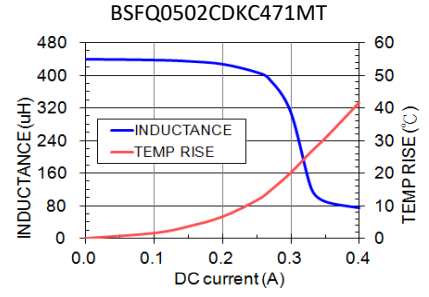
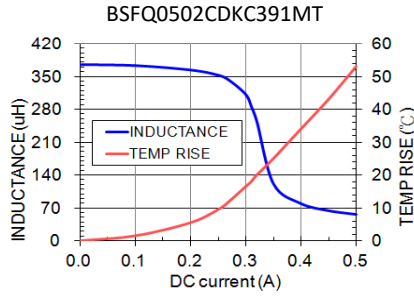
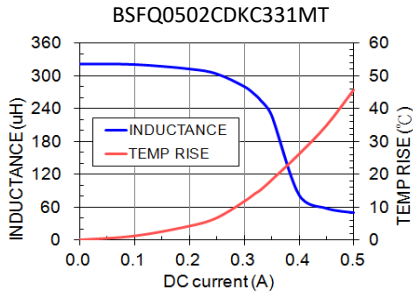
SMD POWER INDUCTORS → BSFQ0502CDKC SERIES

ELECTRICAL CHARACTERISTIC



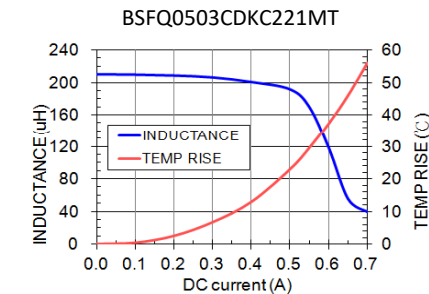
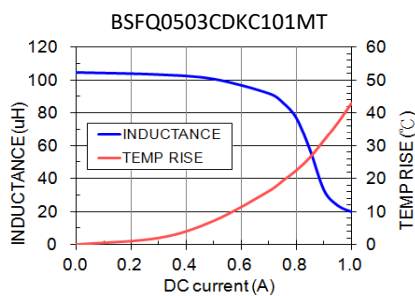
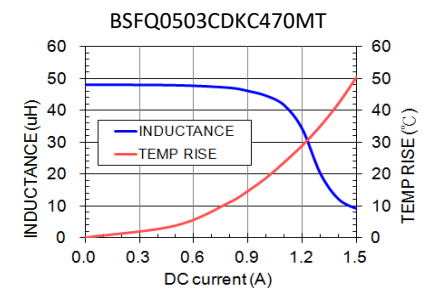
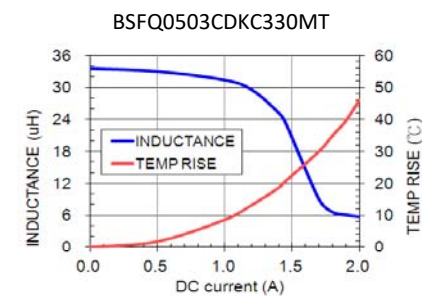
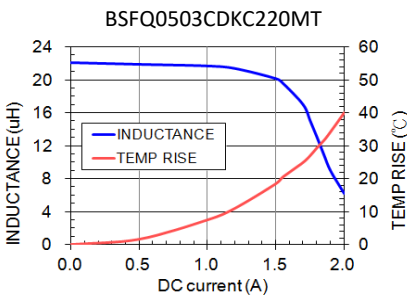
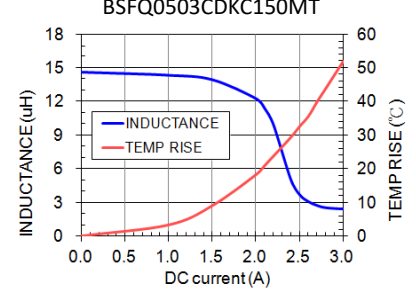
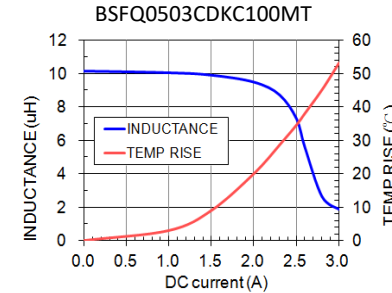
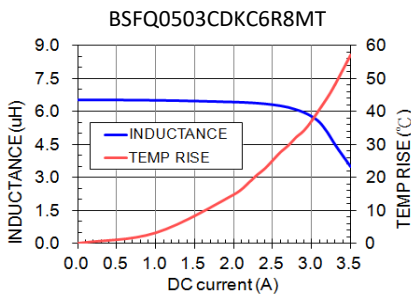
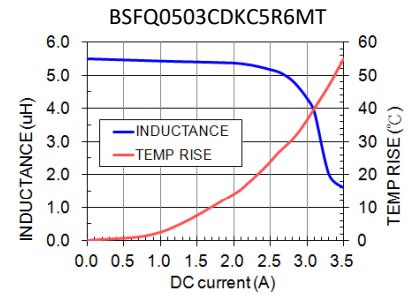
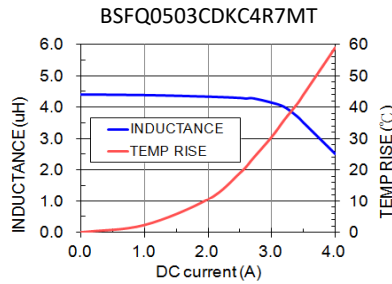
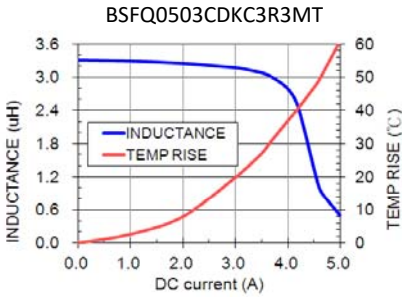
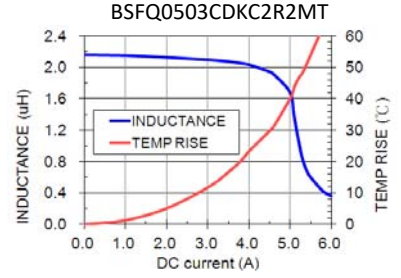
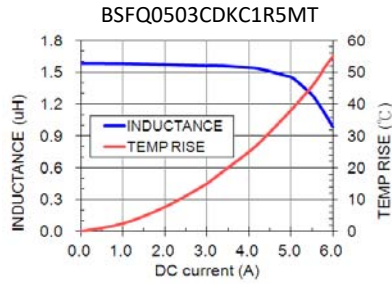
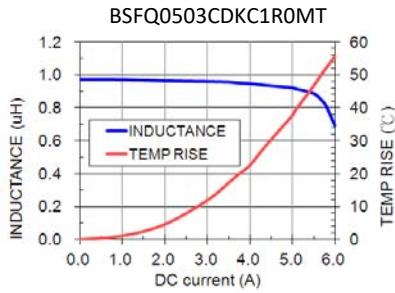
SMD POWER INDUCTORS → BSFQ0502CDKC SERIES

ELECTRICAL CHARACTERISTIC



SMD POWER INDUCTORS → BSFQ0503CDKC SERIES

ELECTRICAL CHARACTERISTIC



SMD POWER INDUCTORS → BSFQ0504CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0504CDKC1R0MT	1.0	18	90	6.60	4.20
BSFQ0504CDKC1R2MT	1.2	20	60	6.30	4.20
BSFQ0504CDKC1R5MT	1.5	21	60	5.70	4.20
BSFQ0504CDKC1R8MT	1.8	23	40	5.60	4.10
BSFQ0504CDKC2R2MT	2.2	28	35	4.85	4.00
BSFQ0504CDKC2R7MT	2.7	30	30	4.70	3.80
BSFQ0504CDKC3R3MT	3.3	34	30	4.00	3.50
BSFQ0504CDKC3R9MT	3.9	36	25	3.90	3.50
BSFQ0504CDKC4R7MT	4.7	37	25	3.70	3.40
BSFQ0504CDKC5R6MT	5.6	53	25	3.20	2.80
BSFQ0504CDKC6R8MT	6.8	60	15	2.85	2.40
BSFQ0504CDKC8R2MT	8.2	70	15	2.35	2.30
BSFQ0504CDKC100MT	10	90	13	2.20	2.20
BSFQ0504CDKC120MT	12	100	10	2.15	2.10
BSFQ0504CDKC150MT	15	102	10	2.00	2.00
BSFQ0504CDKC180MT	18	130	10	1.70	1.80
BSFQ0504CDKC220MT	22	155	10	1.50	1.70
BSFQ0504CDKC270MT	27	190	7	1.50	1.60
BSFQ0504CDKC330MT	33	200	7	1.40	1.60
BSFQ0504CDKC390MT	39	250	7	1.40	1.40
BSFQ0504CDKC470MT	47	320	7	1.20	1.20
BSFQ0504CDKC560MT	56	370	5	1.05	1.10
BSFQ0504CDKC680MT	68	420	5	0.90	1.10
BSFQ0504CDKC820MT	82	470	5	0.85	1.00
BSFQ0504CDKC101MT	100	650	2.5	0.75	0.85
BSFQ0504CDKC121MT	120	700	2.5	0.65	0.75
BSFQ0504CDKC151MT	150	800	2.5	0.55	0.70
BSFQ0504CDKC181MT	180	1000	2.5	0.53	0.65
BSFQ0504CDKC221MT	220	1200	1	0.45	0.60

Test Freq.: 100KHz/1V

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

※Isat: Based on Inductance decrease 30%

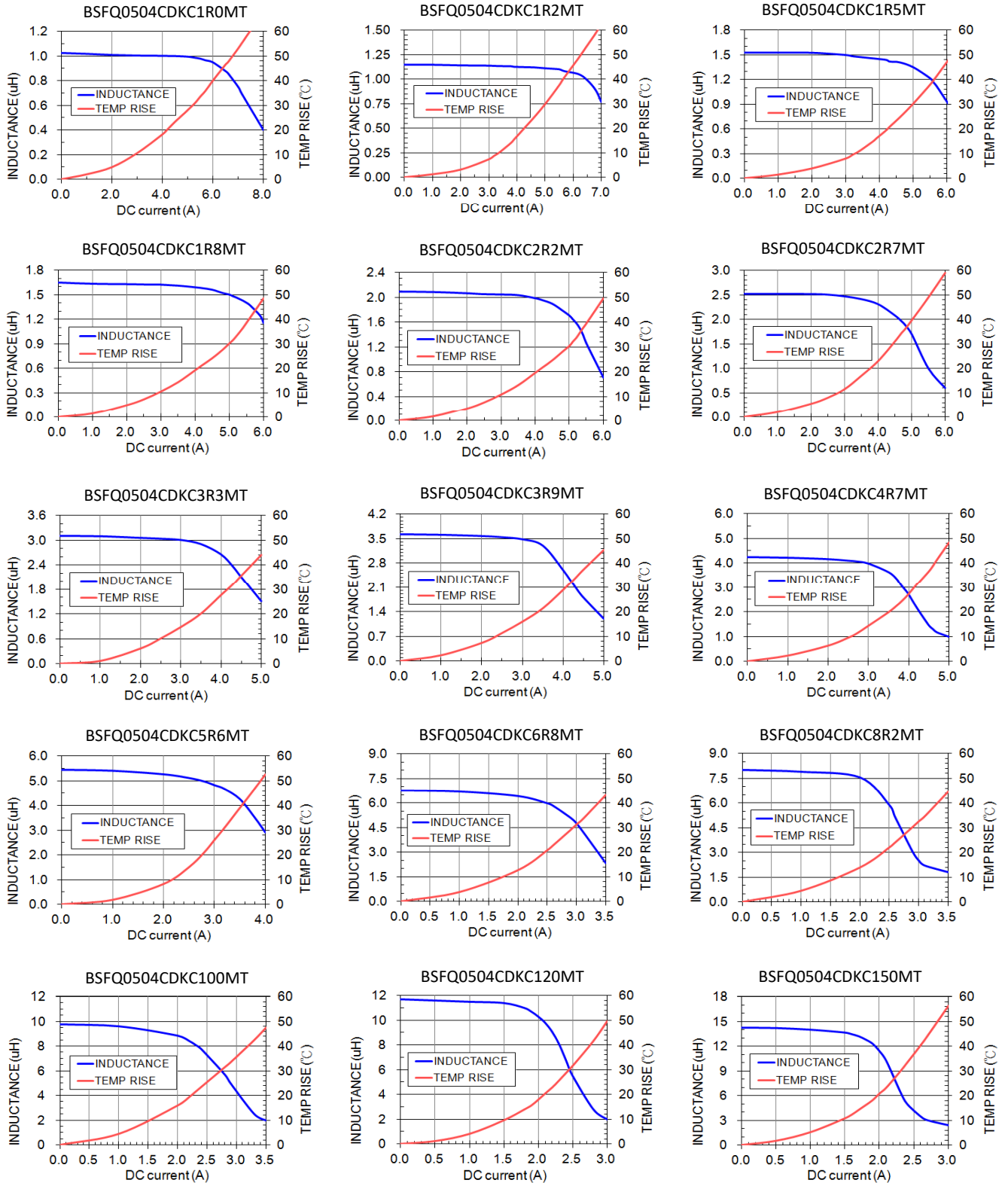
※IDC: Based on Temperature increase 40°C

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

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SMD POWER INDUCTORS → BSFQ0504CDKC SERIES

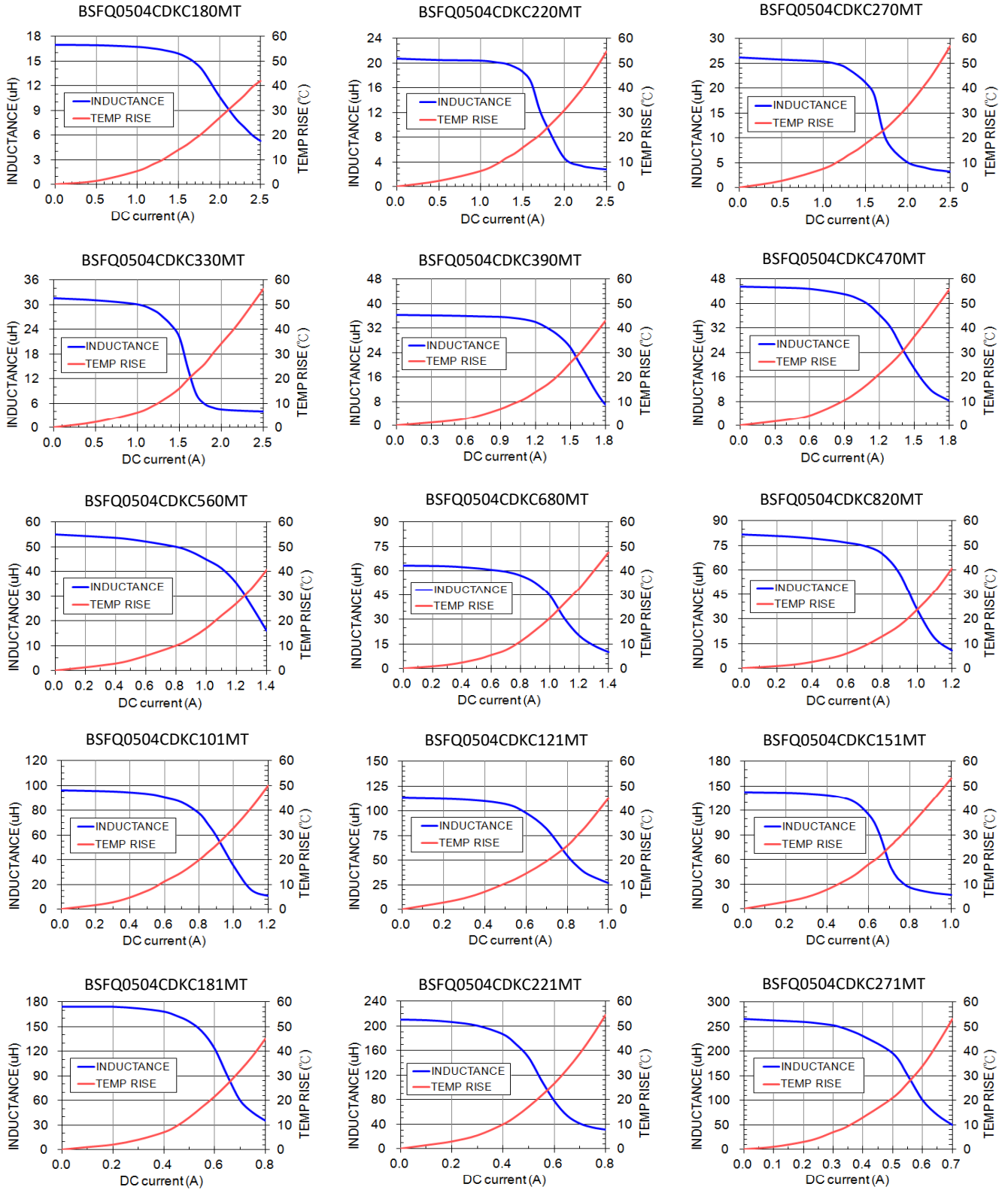
ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSFQ0504CDKC SERIES

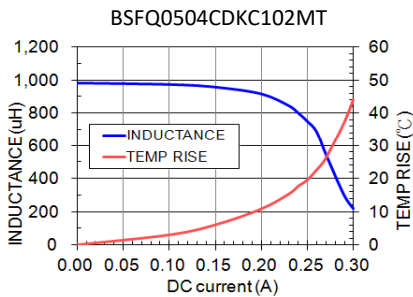
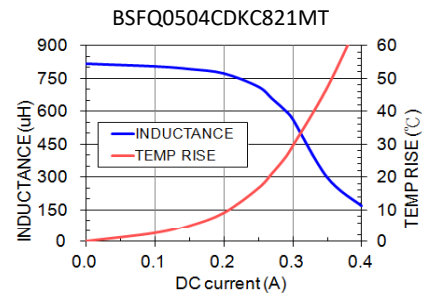
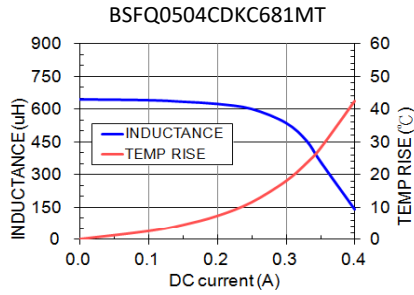
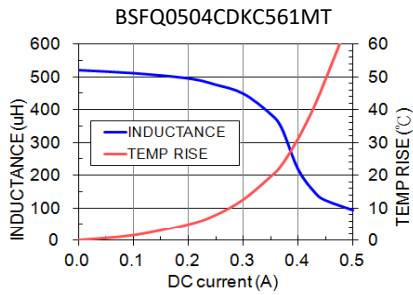
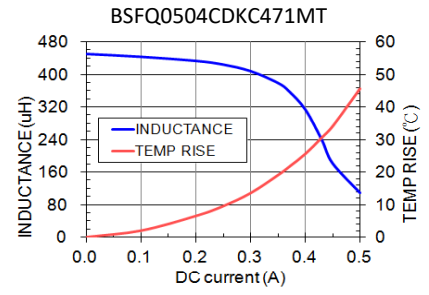
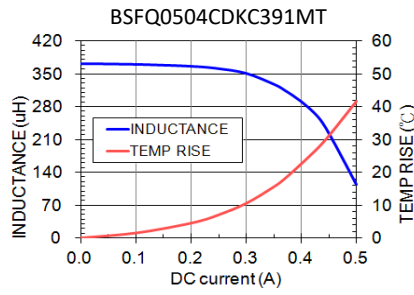
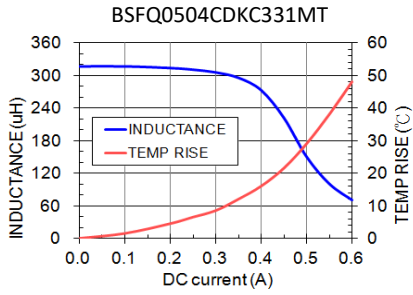
ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSFQ0504CDKC SERIES

ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSFQ0703CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0703CDKC1R0MT	1.0	13	75	7.00	6.00
BSFQ0703CDKC1R5MT	1.5	16	60	5.60	5.50
BSFQ0703CDKC2R2MT	2.2	20	45	4.60	5.00
BSFQ0703CDKC3R3MT	3.3	25	40	4.10	4.10
BSFQ0703CDKC4R7MT	4.7	35	30	3.90	3.90
BSFQ0703CDKC6R8MT	6.8	50	20	3.00	3.10
BSFQ0703CDKC100MT	10	60	15	2.50	3.00
BSFQ0703CDKC150MT	15	90	13	2.00	2.80
BSFQ0703CDKC220MT	22	130	10	1.70	2.00
BSFQ0703CDKC330MT	33	150	10	1.30	1.90
BSFQ0703CDKC470MT	47	250	7	1.20	1.45
BSFQ0703CDKC680MT	68	320	7	1.00	1.20
BSFQ0703CDKC820MT	82	360	5	0.95	1.20

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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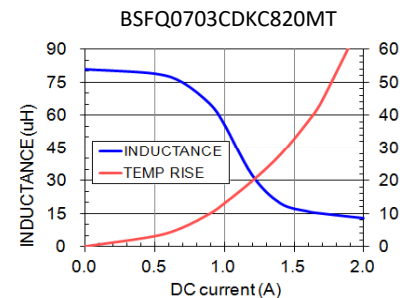
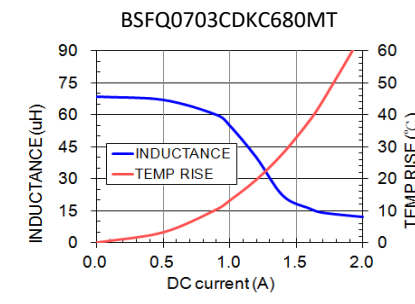
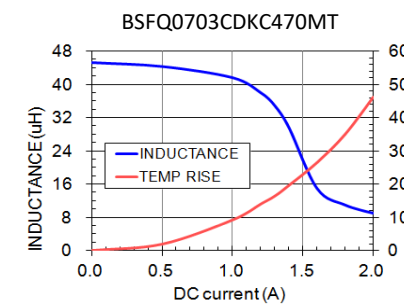
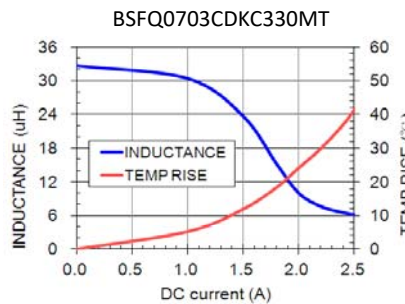
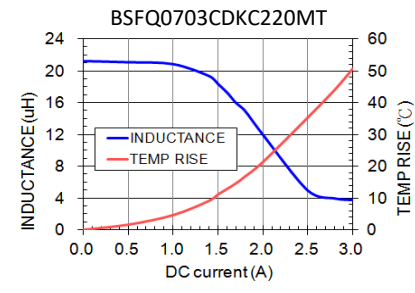
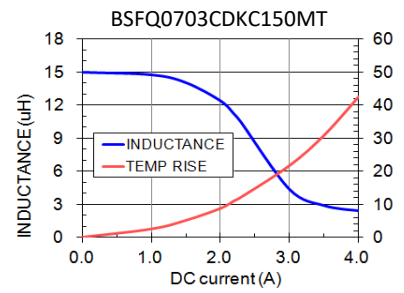
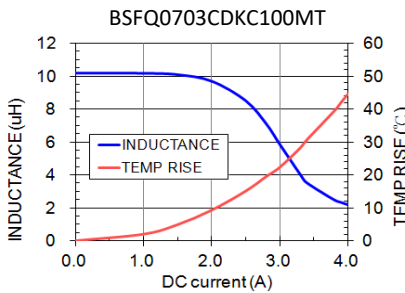
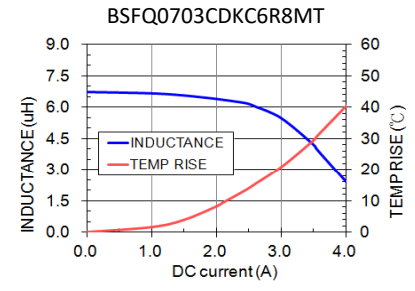
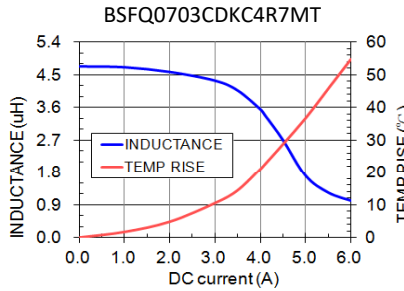
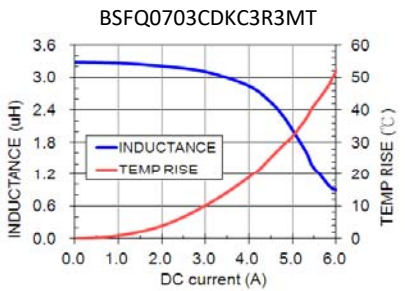
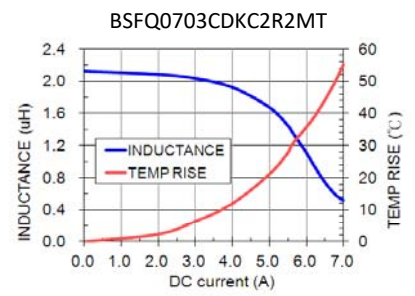
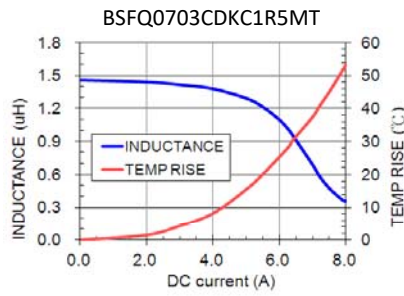
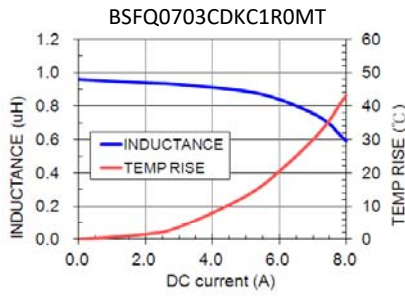


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SMD POWER INDUCTORS → BSFQ0703CDKC SERIES

ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSFQ0705CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0705CDKC1R0MT	1.0	25	80	6.70	4.50
BSFQ0705CDKC1R5MT	1.5	30	65	6.40	4.40
BSFQ0705CDKC2R2MT	2.2	35	50	5.20	4.00
BSFQ0705CDKC2R7MT	2.7	38	35	5.15	3.90
BSFQ0705CDKC3R3MT	3.3	40	30	5.15	3.80
BSFQ0705CDKC4R7MT	4.7	45	20	4.10	3.60
BSFQ0705CDKC5R6MT	5.6	50	15	3.50	3.50
BSFQ0705CDKC6R8MT	6.8	60	15	3.40	3.40
BSFQ0705CDKC8R2MT	8.2	63	13	3.30	3.40
BSFQ0705CDKC100MT	10	65	10	2.70	3.40
BSFQ0705CDKC120MT	12	75	10	2.60	2.50
BSFQ0705CDKC150MT	15	80	7	2.50	2.30
BSFQ0705CDKC180MT	18	90	7	2.20	2.20
BSFQ0705CDKC220MT	22	100	7	2.15	2.15
BSFQ0705CDKC270MT	27	115	7	1.90	2.00
BSFQ0705CDKC330MT	33	125	7	1.80	1.90
BSFQ0705CDKC390MT	39	150	7	1.60	1.90
BSFQ0705CDKC470MT	47	160	5	1.60	1.90
BSFQ0705CDKC560MT	56	180	5	1.50	1.70
BSFQ0705CDKC680MT	68	260	2.5	1.20	1.40
BSFQ0705CDKC820MT	82	300	2.5	1.05	1.30
BSFQ0705CDKC101MT	100	350	2.5	1.00	1.30
BSFQ0705CDKC121MT	120	440	2.5	0.91	1.10
BSFQ0705CDKC151MT	150	500	2.5	0.75	1.10
BSFQ0705CDKC181MT	180	600	2.5	0.72	0.95
BSFQ0705CDKC221MT	220	750	1	0.62	0.90
BSFQ0705CDKC271MT	270	800	1	0.57	0.85
BSFQ0705CDKC331MT	330	1100	1	0.50	0.80
BSFQ0705CDKC391MT	390	1400	1	0.45	0.65
BSFQ0705CDKC471MT	470	1500	1	0.40	0.62
BSFQ0705CDKC561MT	560	1700	0.7	0.38	0.55
BSFQ0705CDKC681MT	680	2100	0.7	0.37	0.54
BSFQ0705CDKC821MT	820	2500	0.7	0.34	0.48
BSFQ0705CDKC102MT	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%

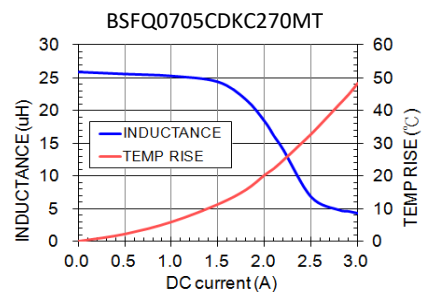
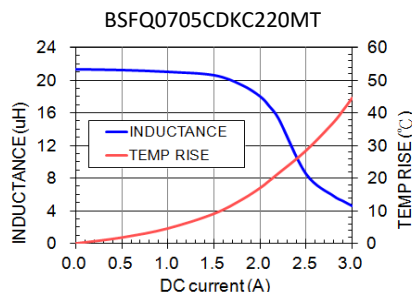
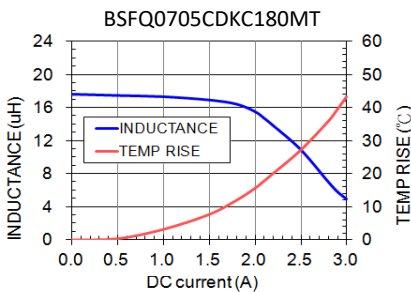
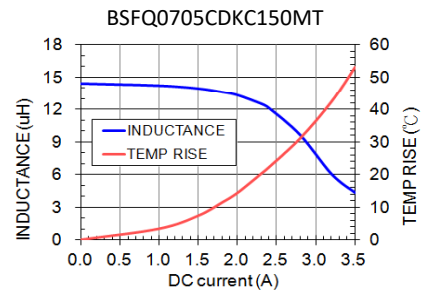
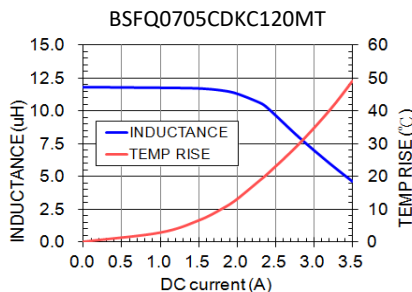
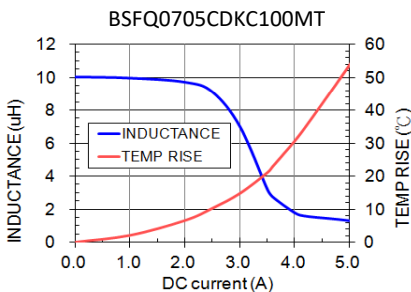
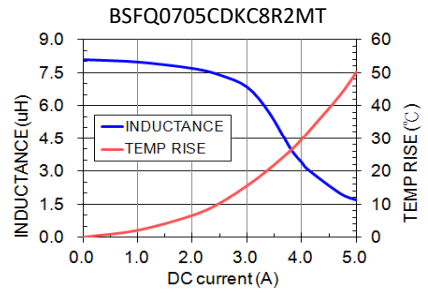
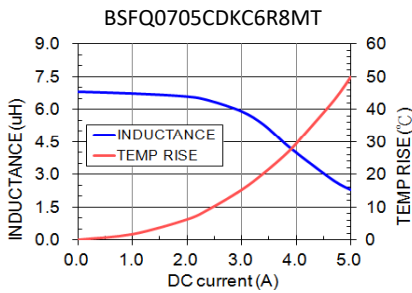
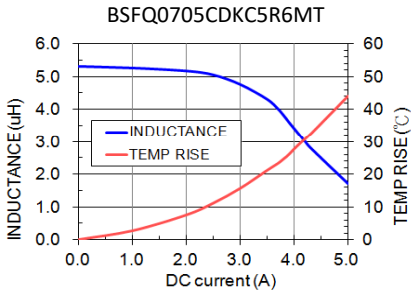
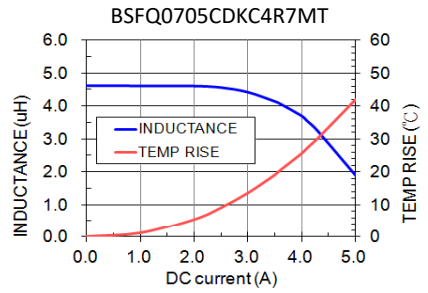
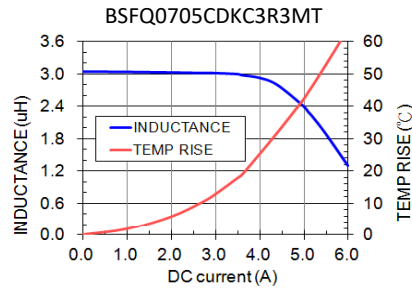
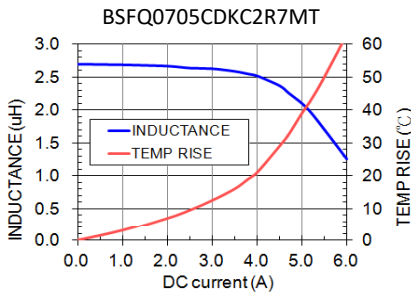
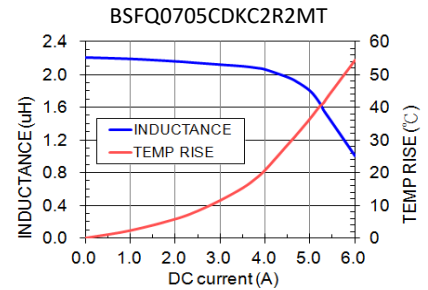
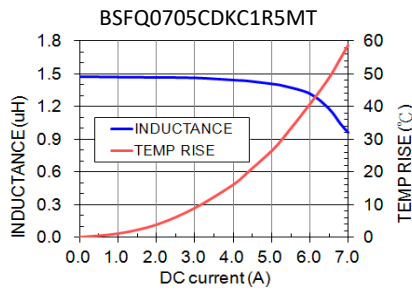
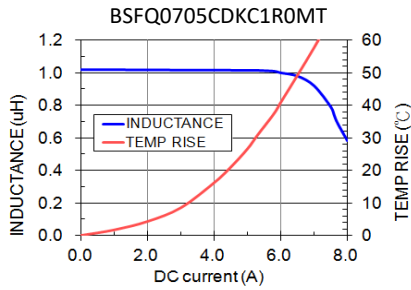
※IDC:Based on Temperature increase 40°C

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

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SMD POWER INDUCTORS → BSFQ0705CDKC SERIES

ELECTRICAL CHARACTERISTIC



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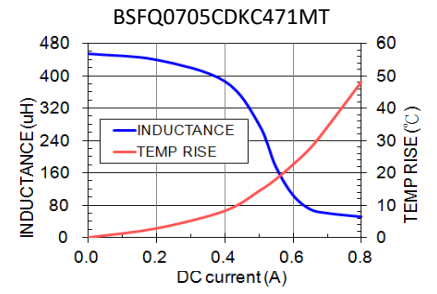
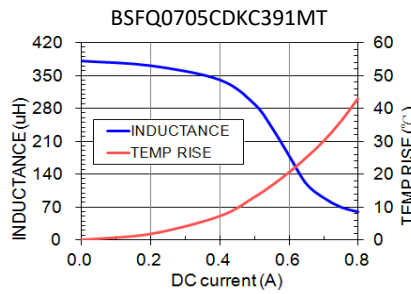
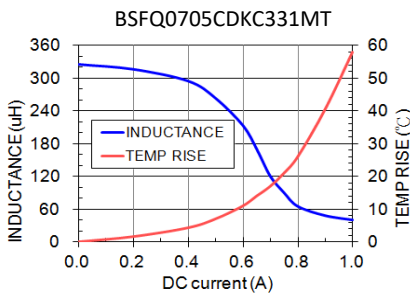
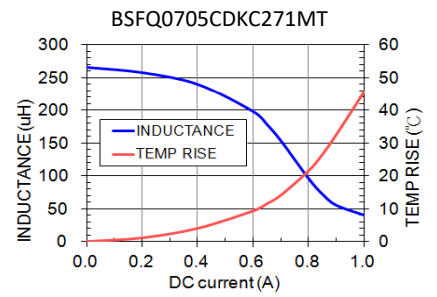
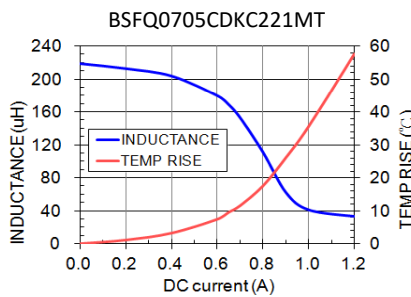
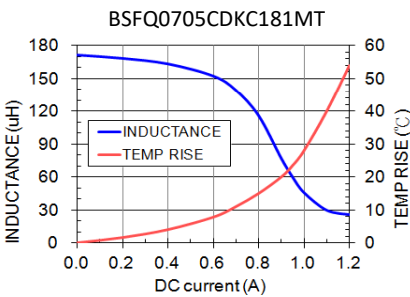
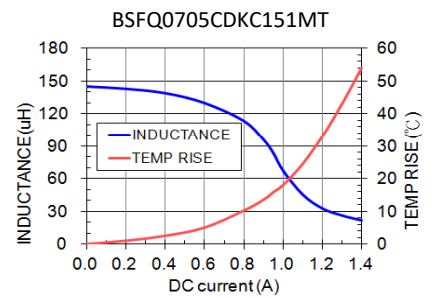
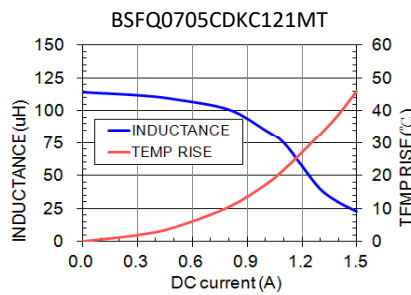
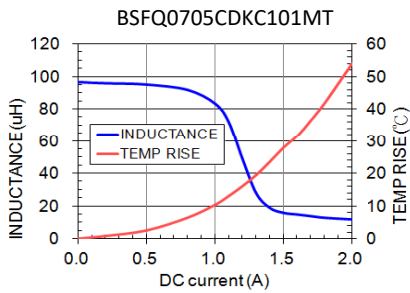
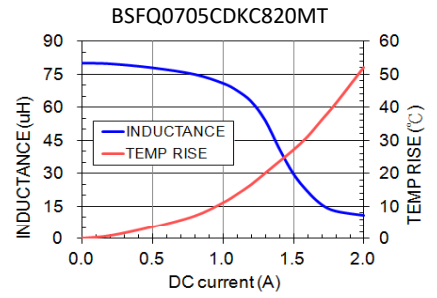
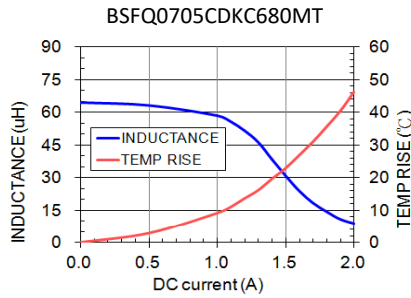
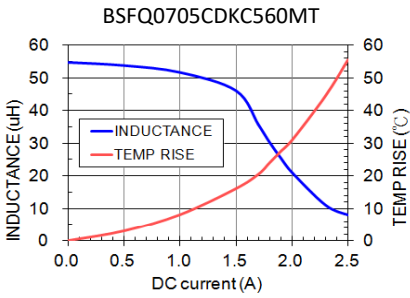
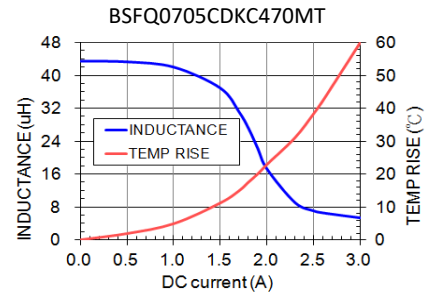
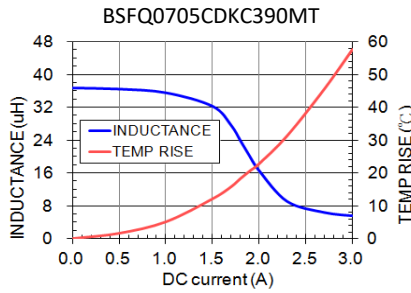
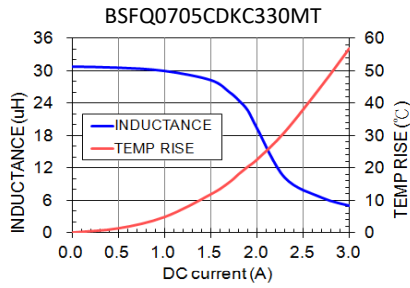


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SMD POWER INDUCTORS → BSFQ0705CDKC SERIES

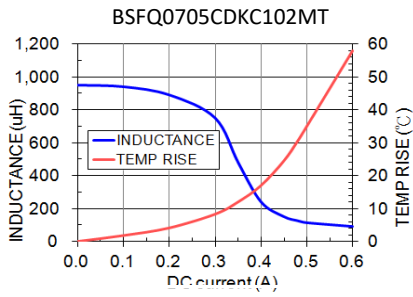
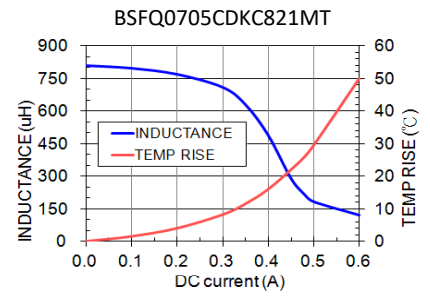
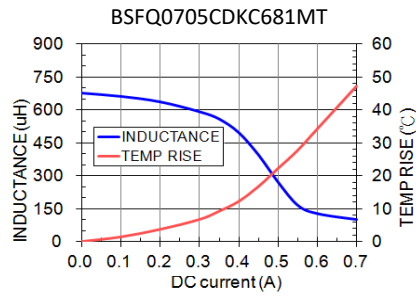
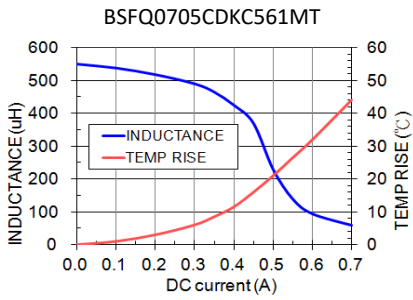
ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSFQ0705CDKC SERIES

ELECTRICAL CHARACTERISTIC



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SMD POWER INDUCTORS → BSFQ1005CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ1005CDKC1R0MT	1.0	11	80	11.00	6.50
BSFQ1005CDKC1R5MT	1.5	15	60	8.75	6.20
BSFQ1005CDKC2R2MT	2.2	17	45	8.00	5.50
BSFQ1005CDKC3R3MT	3.3	21	30	6.50	5.20
BSFQ1005CDKC4R7MT	4.7	24	20	5.40	5.10
BSFQ1005CDKC5R6MT	5.6	26	13	5.00	5.00
BSFQ1005CDKC6R8MT	6.8	32	13	5.00	5.00
BSFQ1005CDKC100MT	10	40	13	4.35	4.80
BSFQ1005CDKC150MT	15	50	10	3.50	4.20
BSFQ1005CDKC220MT	22	65	7	3.05	3.40
BSFQ1005CDKC330MT	33	80	7	2.45	3.20
BSFQ1005CDKC470MT	47	120	5	2.00	2.20
BSFQ1005CDKC680MT	68	150	2.5	1.65	2.10
BSFQ1005CDKC820MT	82	195	2.5	1.50	2.00
BSFQ1005CDKC101MT	100	210	2.5	1.40	1.80
BSFQ1005CDKC181MT	180	390	1	1.10	1.40
BSFQ1005CDKC221MT	220	430	1	0.95	1.30
BSFQ1005CDKC271MT	270	720	1	0.90	1.10
BSFQ1005CDKC331MT	330	830	1	0.85	1.00
BSFQ1005CDKC391MT	390	940	1	0.80	0.95
BSFQ1005CDKC471MT	470	1050	1	0.75	0.90
BSFQ1005CDKC561MT	560	1550	0.7	0.65	0.75
BSFQ1005CDKC681MT	680	1750	0.7	0.60	0.70
BSFQ1005CDKC821MT	820	2000	0.7	0.55	0.65
BSFQ1005CDKC102MT	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%

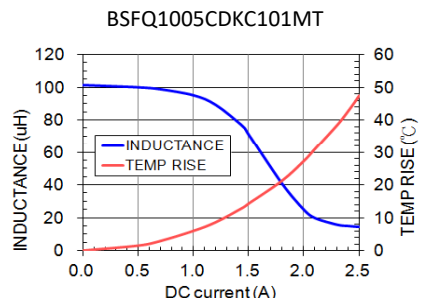
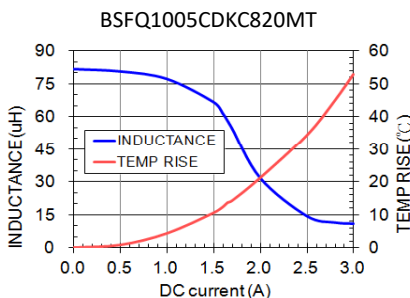
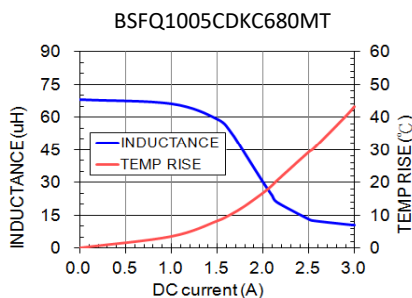
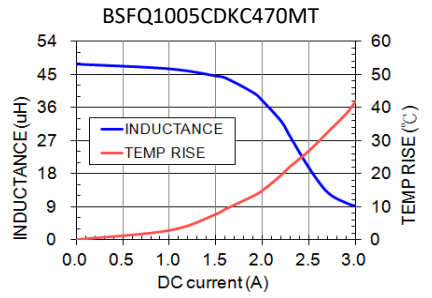
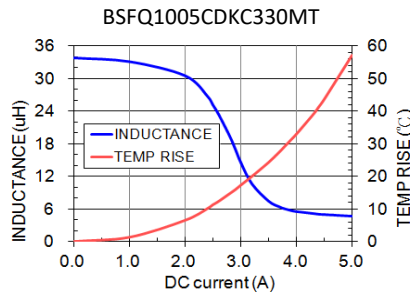
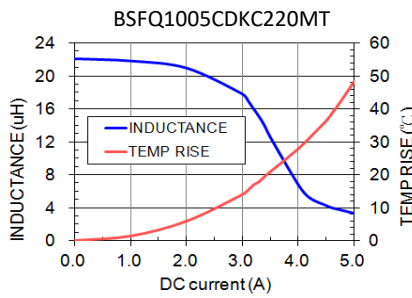
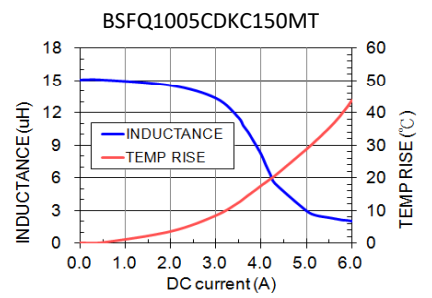
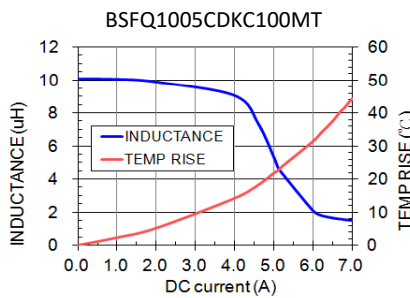
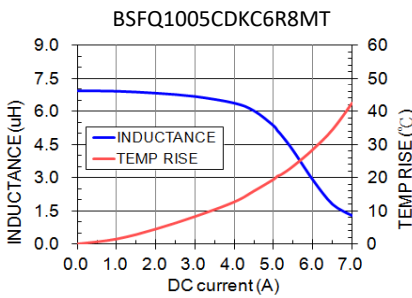
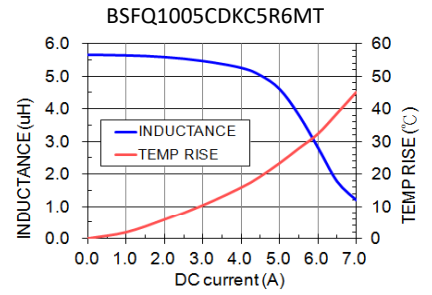
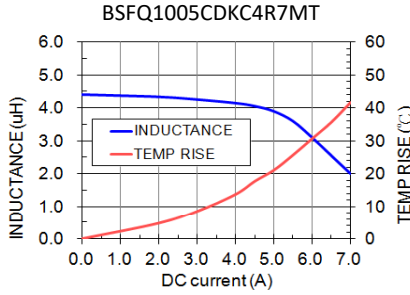
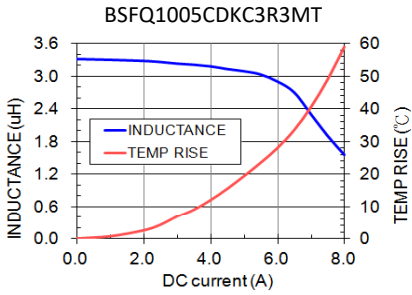
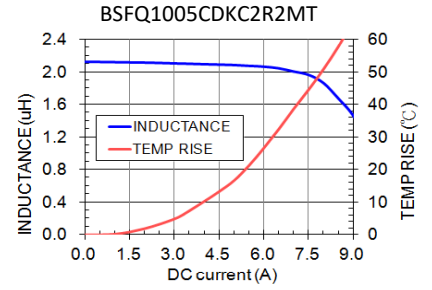
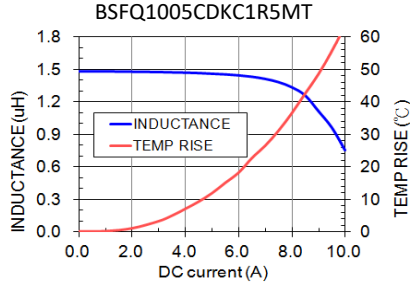
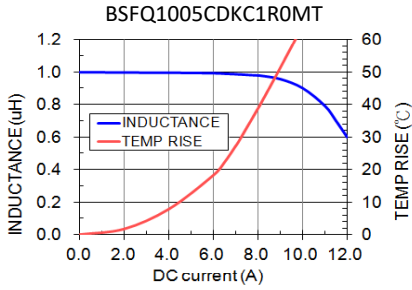
※IDC: Based on Temperature increase 40°C

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

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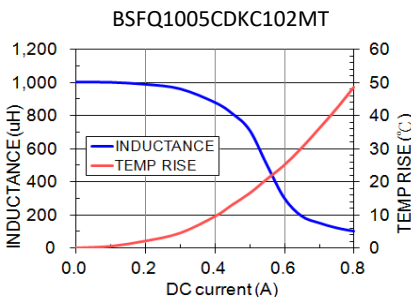
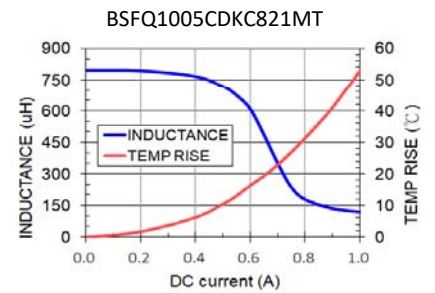
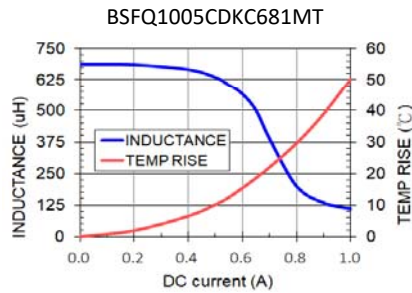
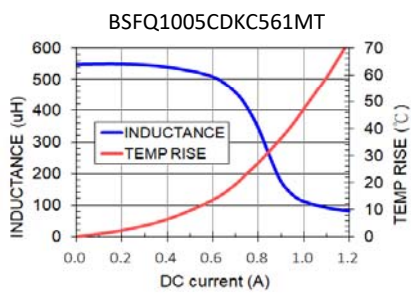
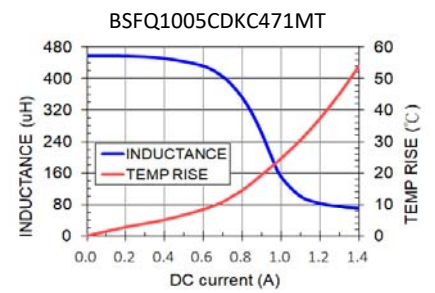
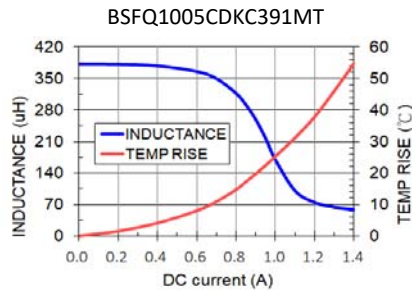
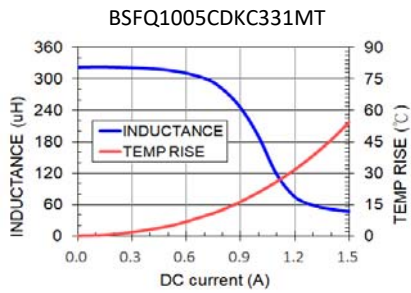
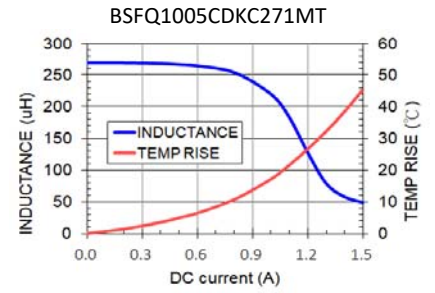
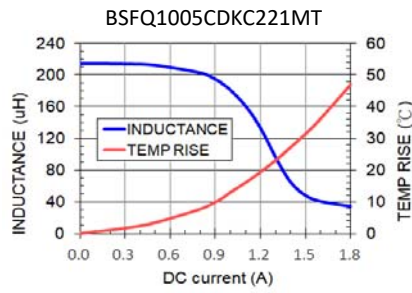
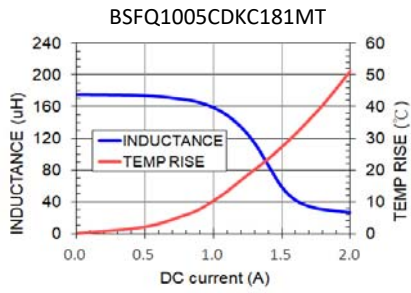
ELECTRICAL CHARACTERISTIC



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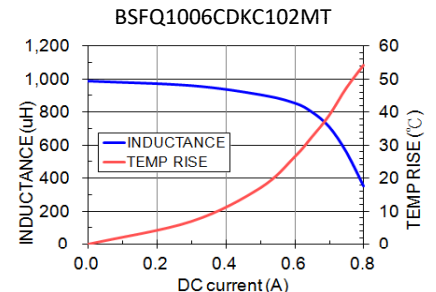
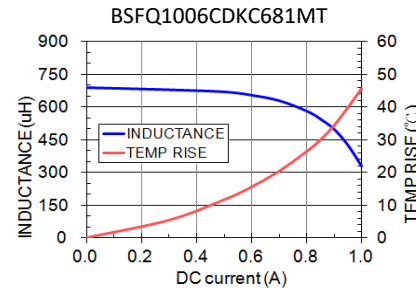
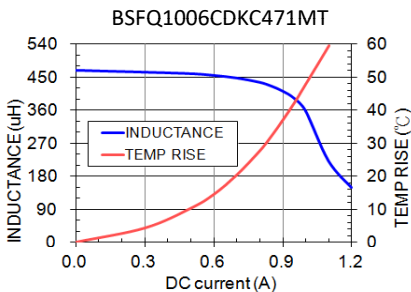
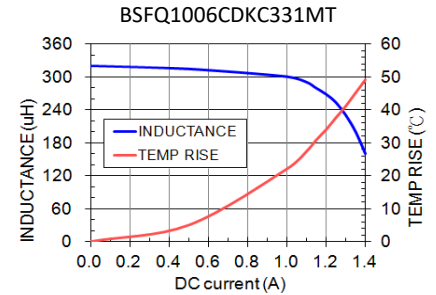
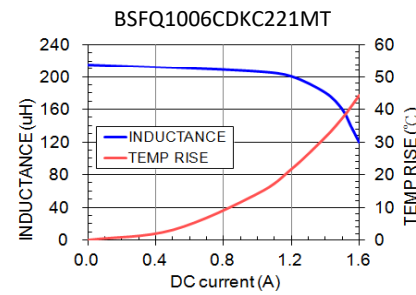
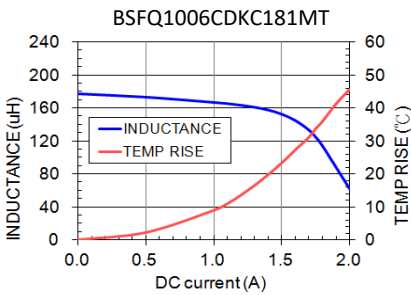
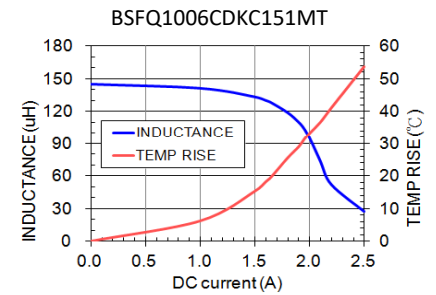
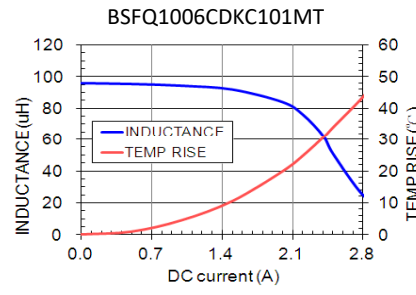
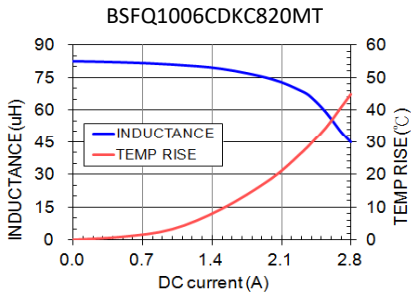
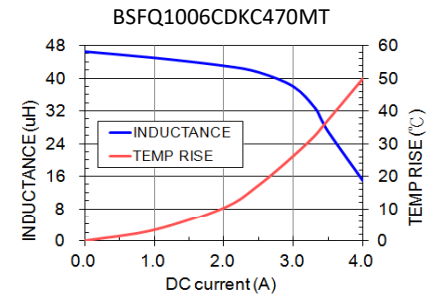
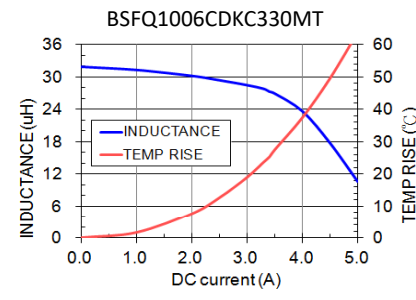
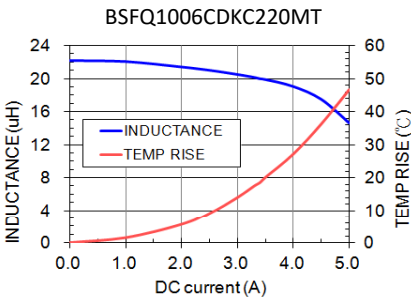
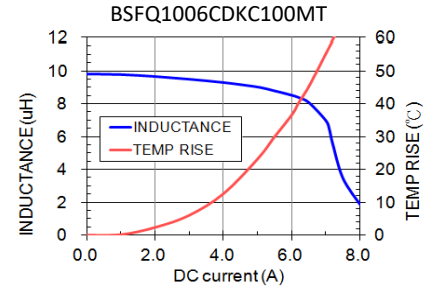
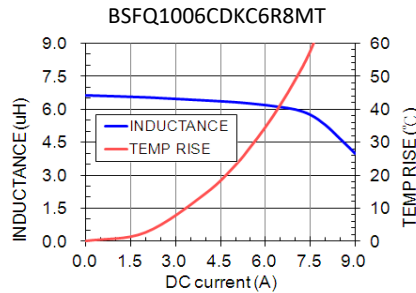
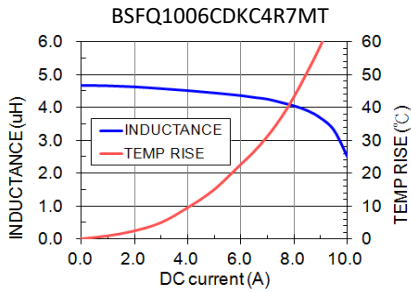
ELECTRICAL CHARACTERISTIC



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ELECTRICAL CHARACTERISTIC



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