

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

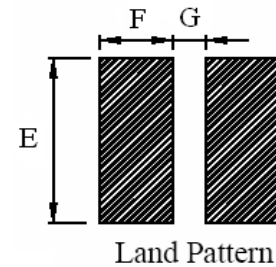
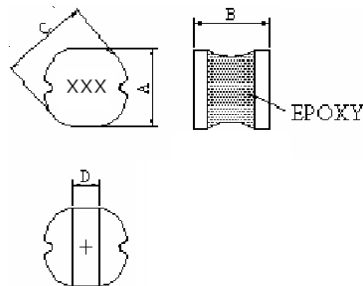
BSF0402CDKC **101** **M** **T**
 (1) (2) (3) (4)

(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

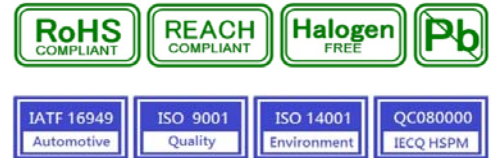
SIZE CODE	A	B	C	D Typ.	E	F	G		
BSF0318CDKC	3.0±0.3	1.9(max)	3.5±0.3	1.2	3.5	1.60	0.8		
BSF0302CDKC	3.0±0.3	2.3(max)	3.5±0.3	1.2	3.5	1.60	0.8		
BSF0302CRKC	3.0±0.3	2.3(max)	3.5±0.3	1.2	3.5	1.60	0.8		
BSF0402CDKC	4.0±0.3	2.2±0.3	4.5±0.3	1.5	4.5	2.10	0.8		
BSF0402CRKC	4.0±0.3	2.2±0.3	4.5±0.3	1.5	4.5	2.10	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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APPLICATIONS

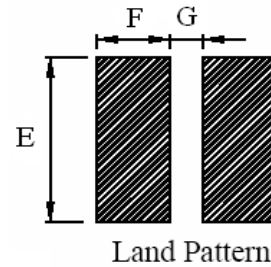
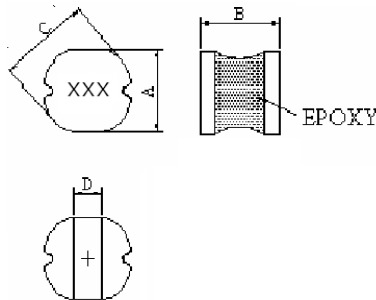
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ORDERING CODE

BSF0402CDKC 101 M T
 (1) (2) (3) (4)

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- (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		
BSF1004CDKC	9.0±0.3	4.0±0.3	10.0±0.3	2.9	9.5	3.65	2.5		
BSF1005CDKC	9.0±0.3	5.4±0.3	10.0±0.3	2.9	9.5	3.65	2.5		
BSF1006CDKC	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 → BSF0402CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
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%

※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 → BSF0402CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (µH)	DC Resistance (mΩ)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0402CDKC391MT	390	8500	1	0.250	0.250
BSF0402CDKC471MT	470	9500	1	0.230	0.240
BSF0402CDKC561MT	560	10500	1	0.220	0.230
BSF0402CDKC681MT	680	15000	1	0.190	0.180
BSF0402CDKC821MT	820	17500	1	0.180	0.170
BSF0402CDKC102MT	1000	20000	1	0.160	0.150

Test Freq.: 100KHz/0.1V
 Tolerance: K±10%,M±20%
 ※Isat: Based on Inductance decrease 30%
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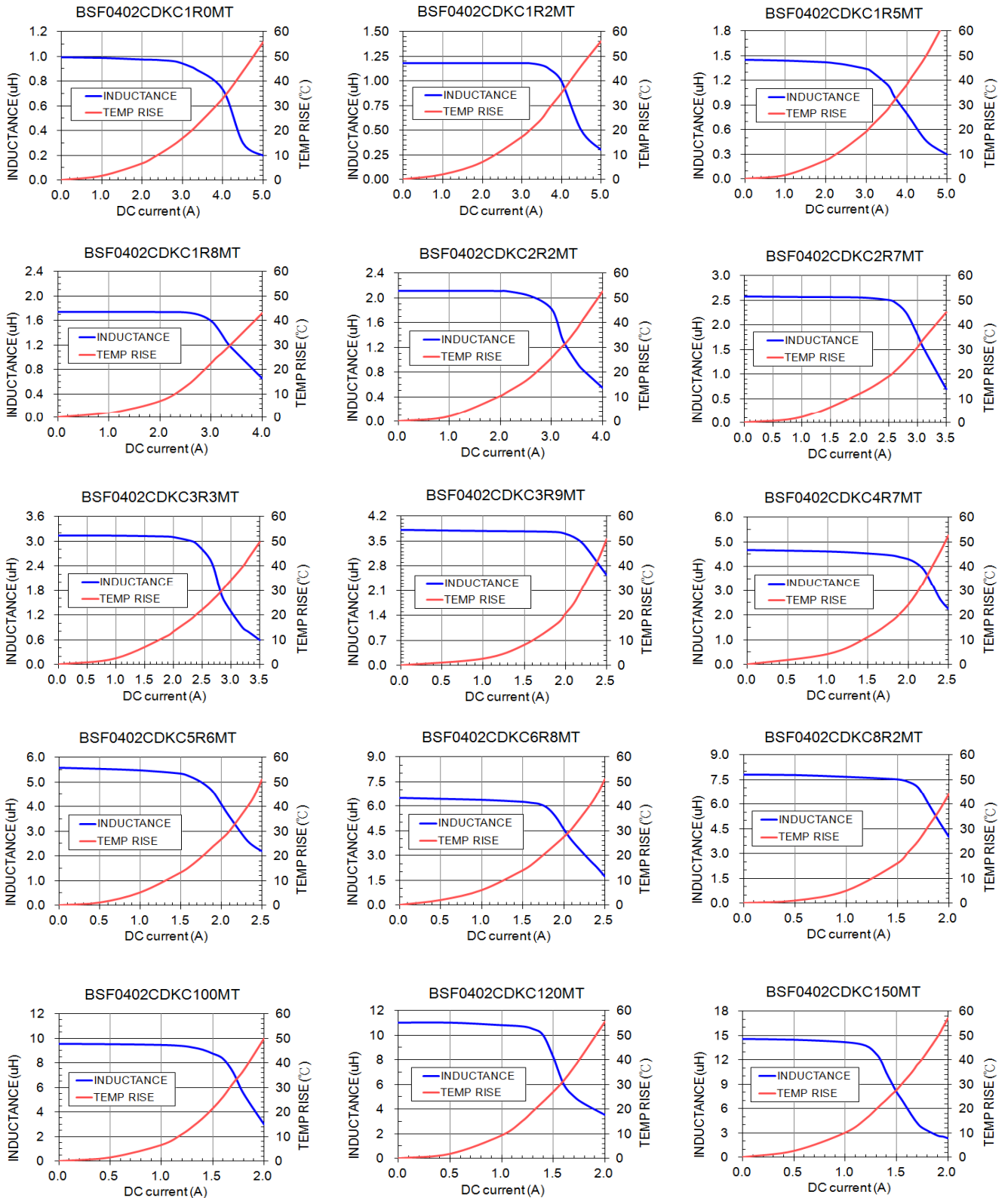
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ELECTRICAL CHARACTERISTIC



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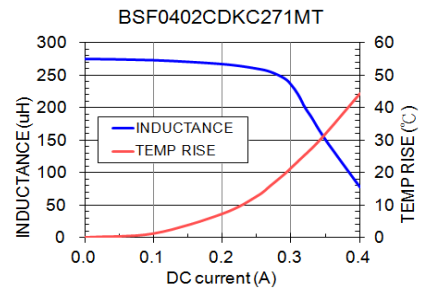
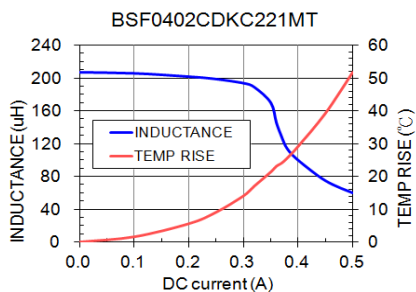
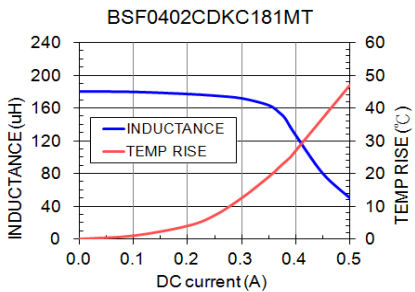
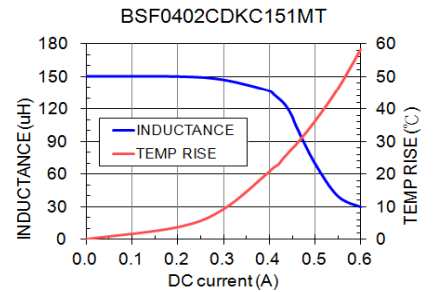
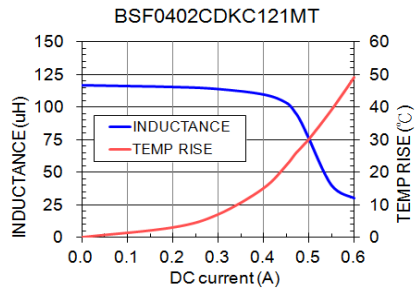
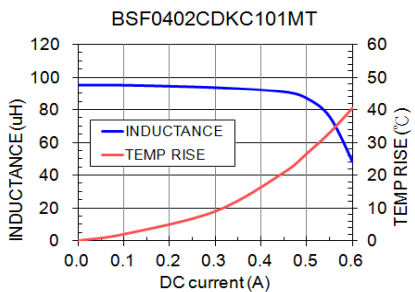
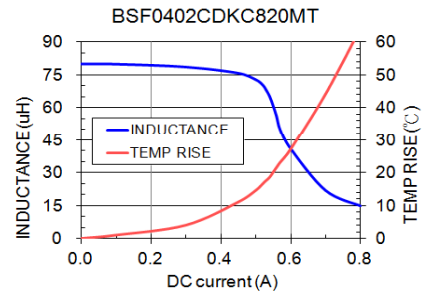
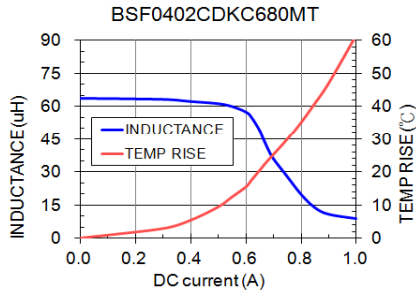
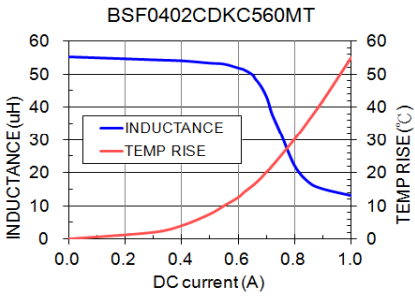
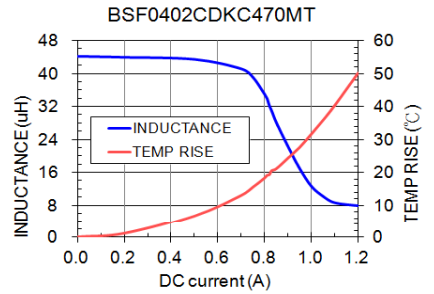
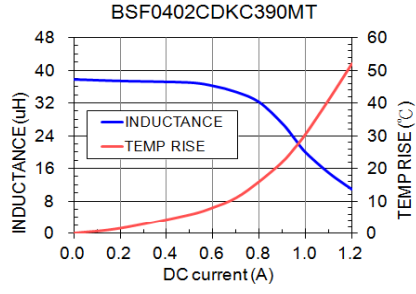
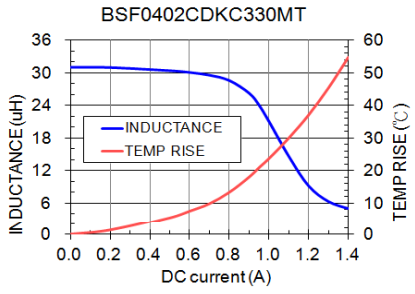
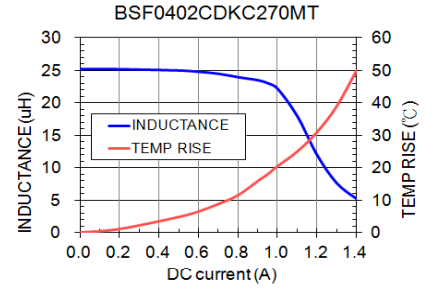
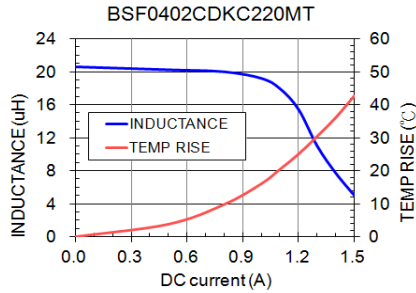
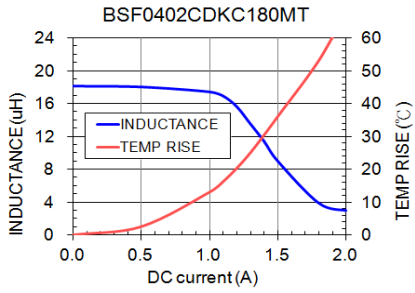


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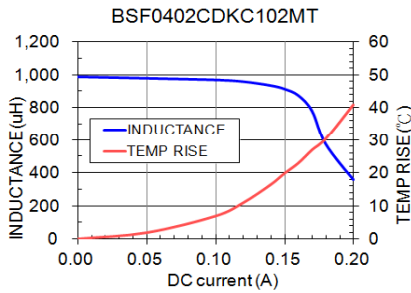
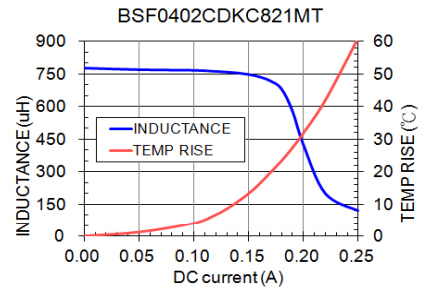
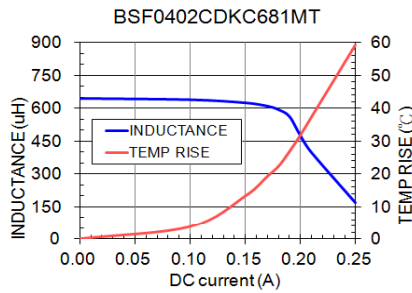
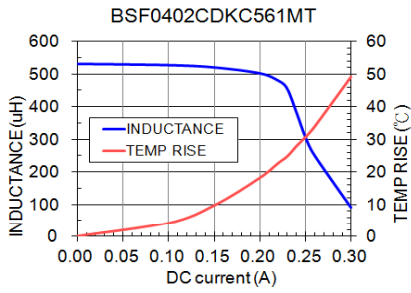
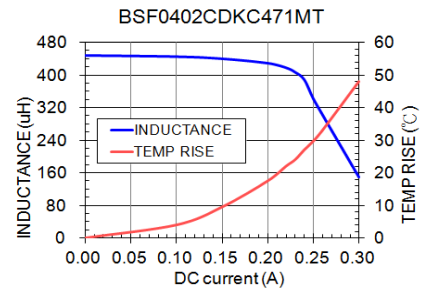
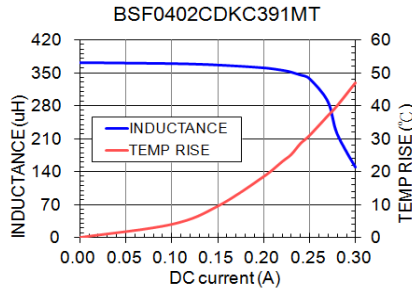
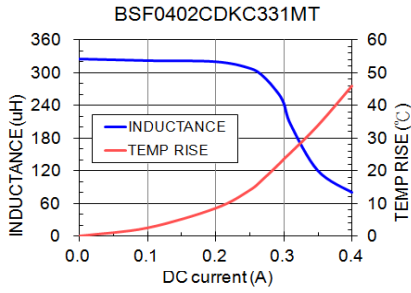
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