

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

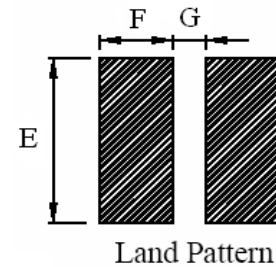
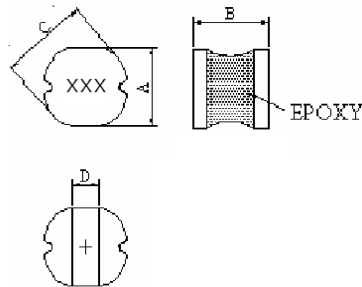
BSF0403CDKC 4R7 M T
 (1) (2) (3) (4)

(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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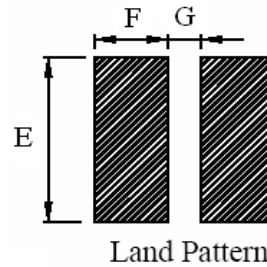
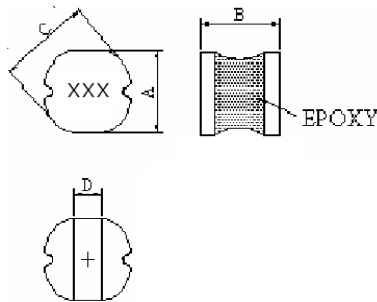
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- (3) INDUCTANCE TOLERANCE (K : ±10%, M : ±20%)
- (4) REEL TAPING



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 → 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%

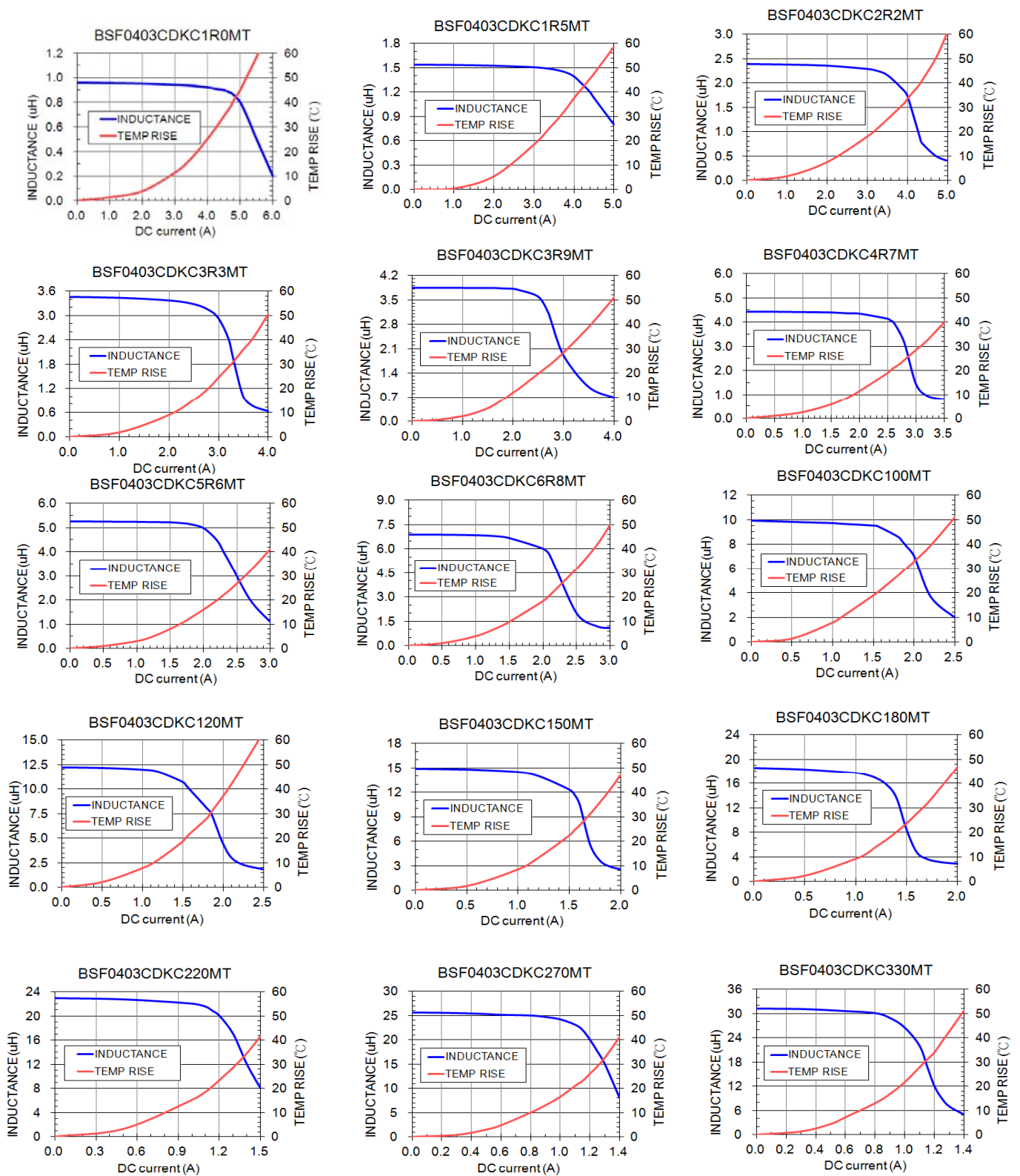
※IDC: Based on Temperature increase 40°C

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

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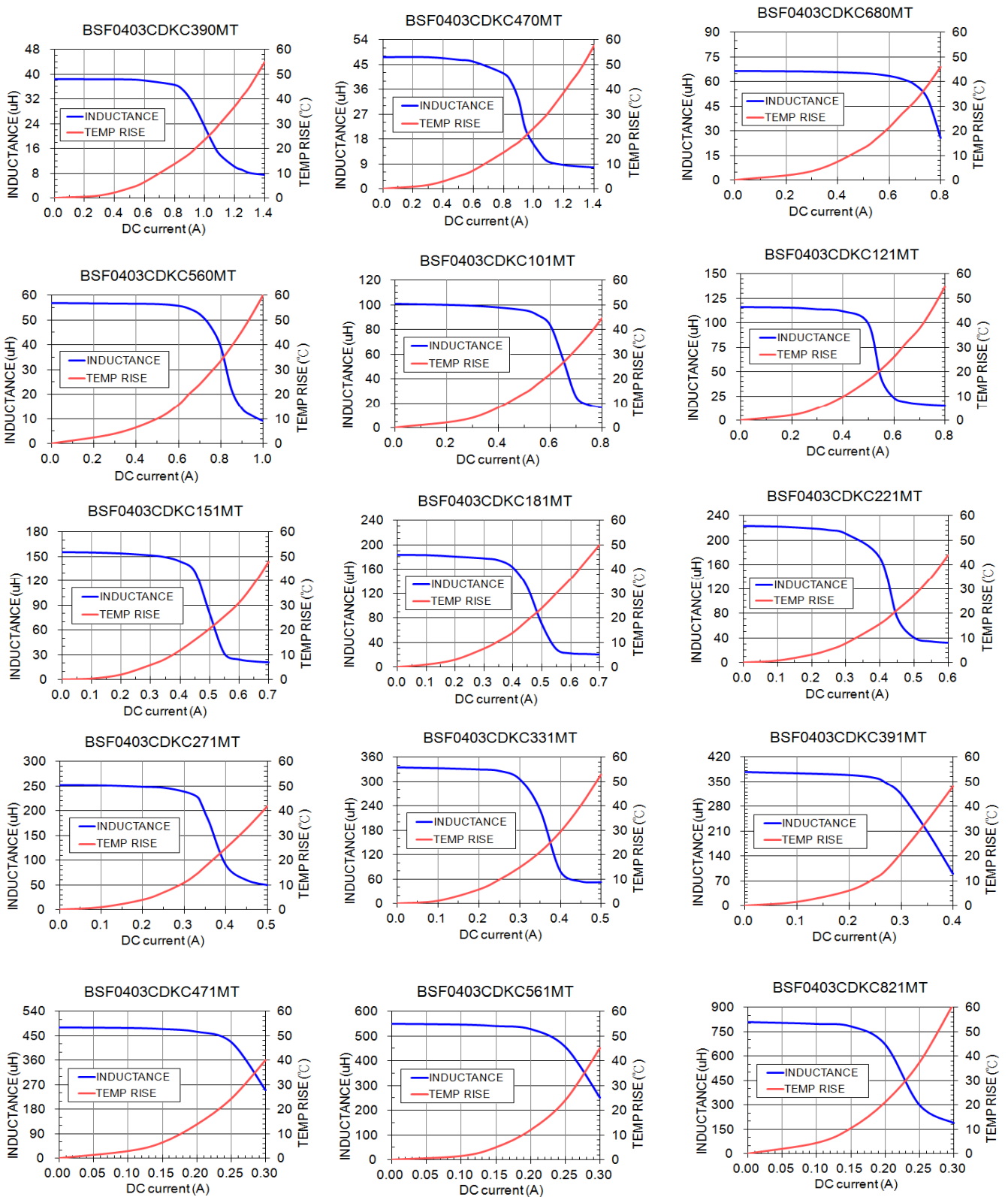
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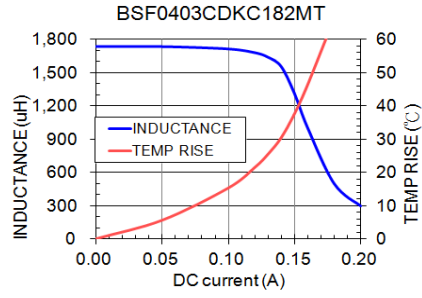
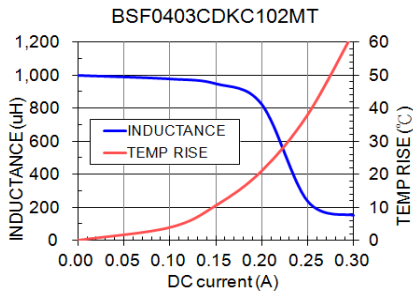
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ELECTRICAL CHARACTERISTIC



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