

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

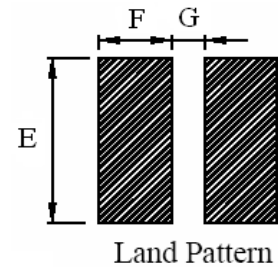
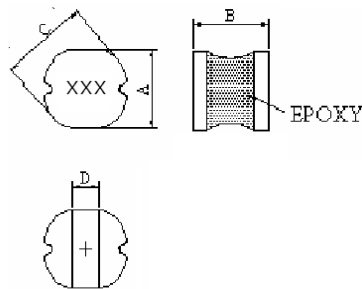
BSF0502CDKC 4R7 M T
 (1) (2) (3) (4)

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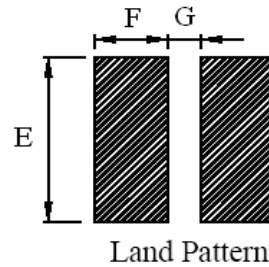
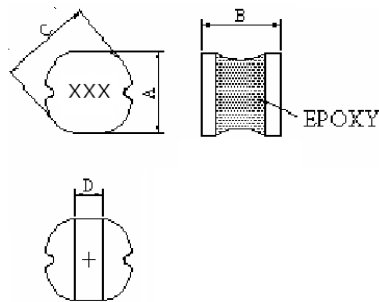
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- (2) INDUCTANCE
- (3) INDUCTANCE TOLERANCE (K : ±10%, M : ±20%)
- (4) REEL TAPING



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 → BSF0502CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)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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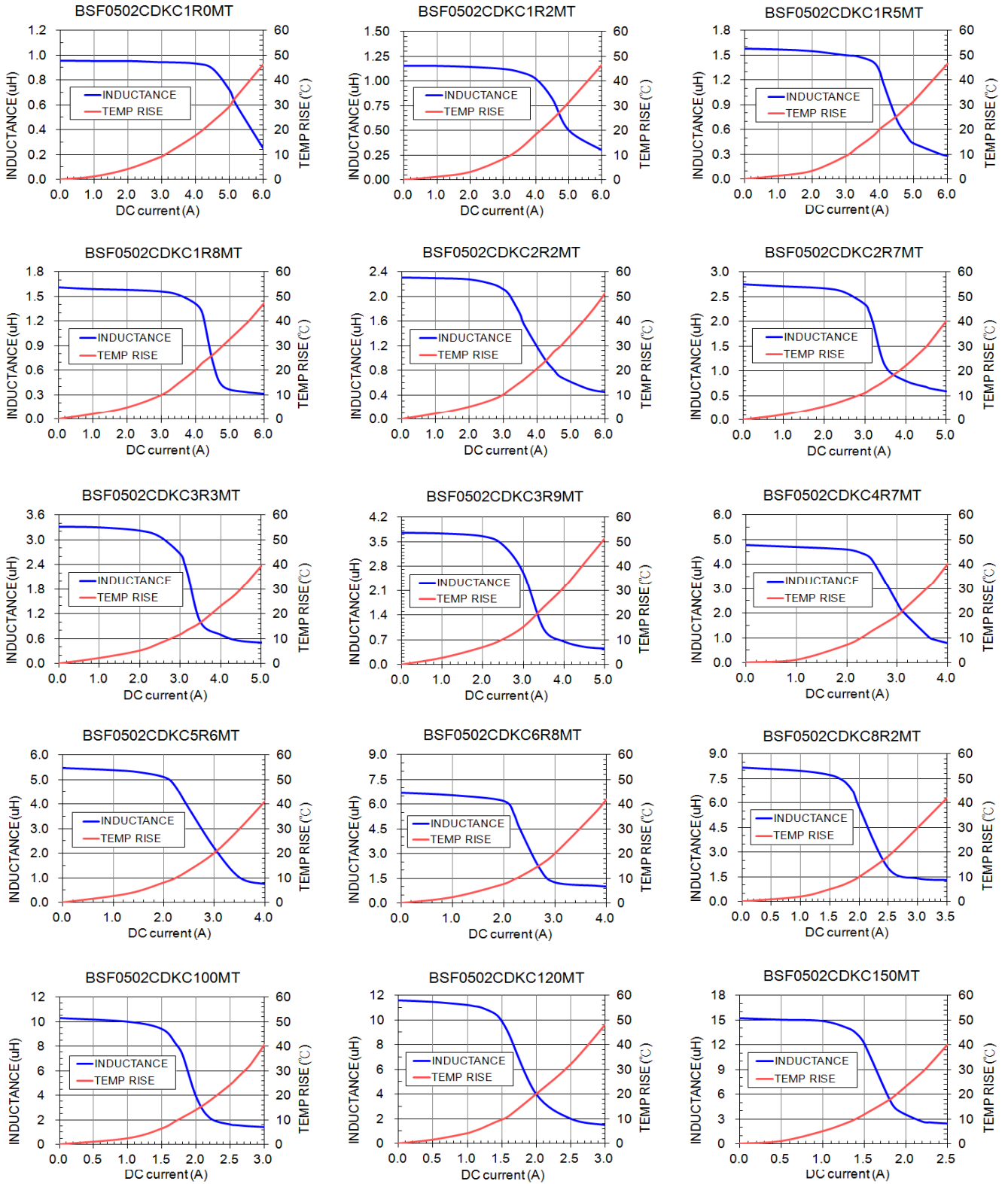


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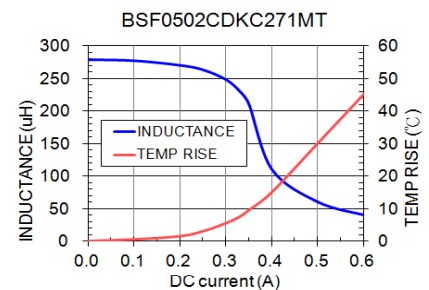
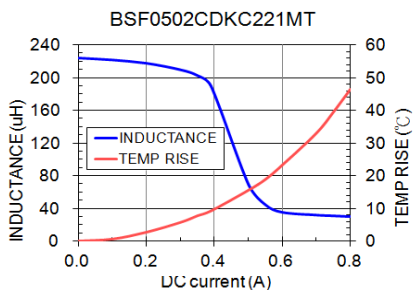
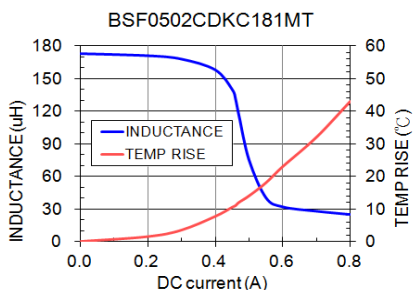
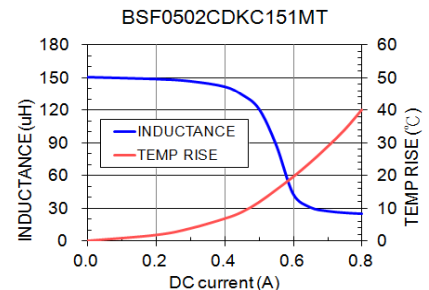
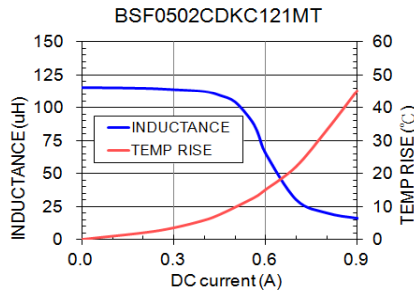
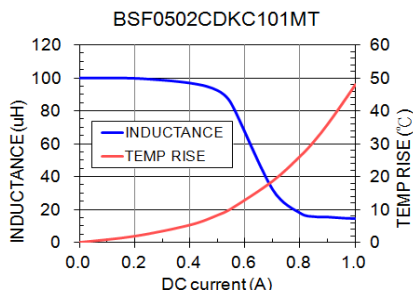
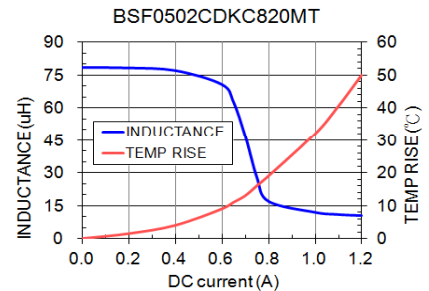
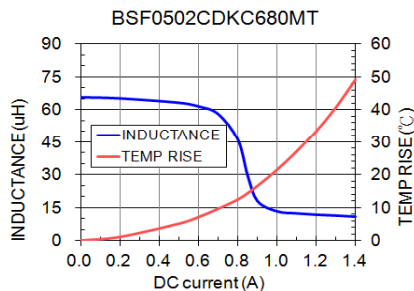
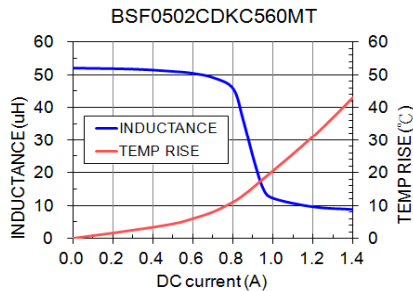
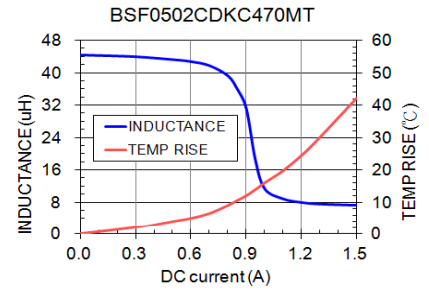
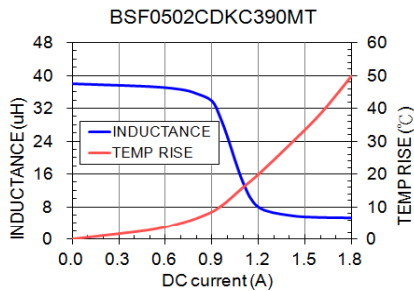
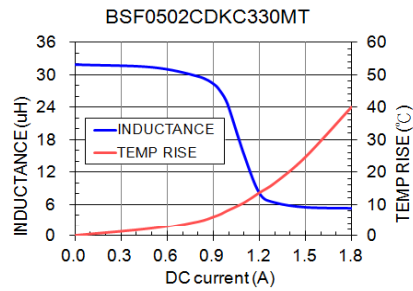
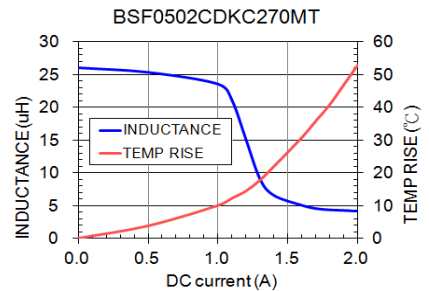
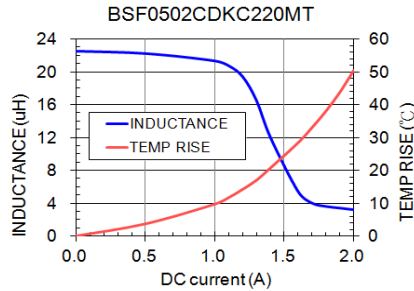
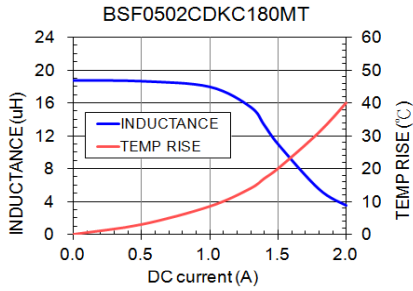


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