

# 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

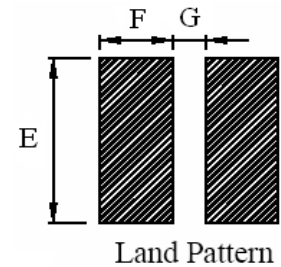
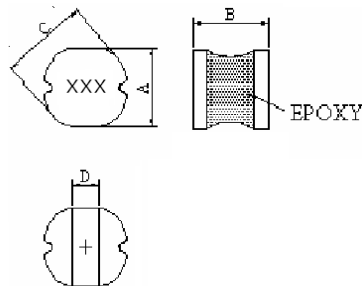
BSF1006CDKC 220 M T  
 (1) (2) (3) (4)

(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 → BSF1006CDKC SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu$ 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%

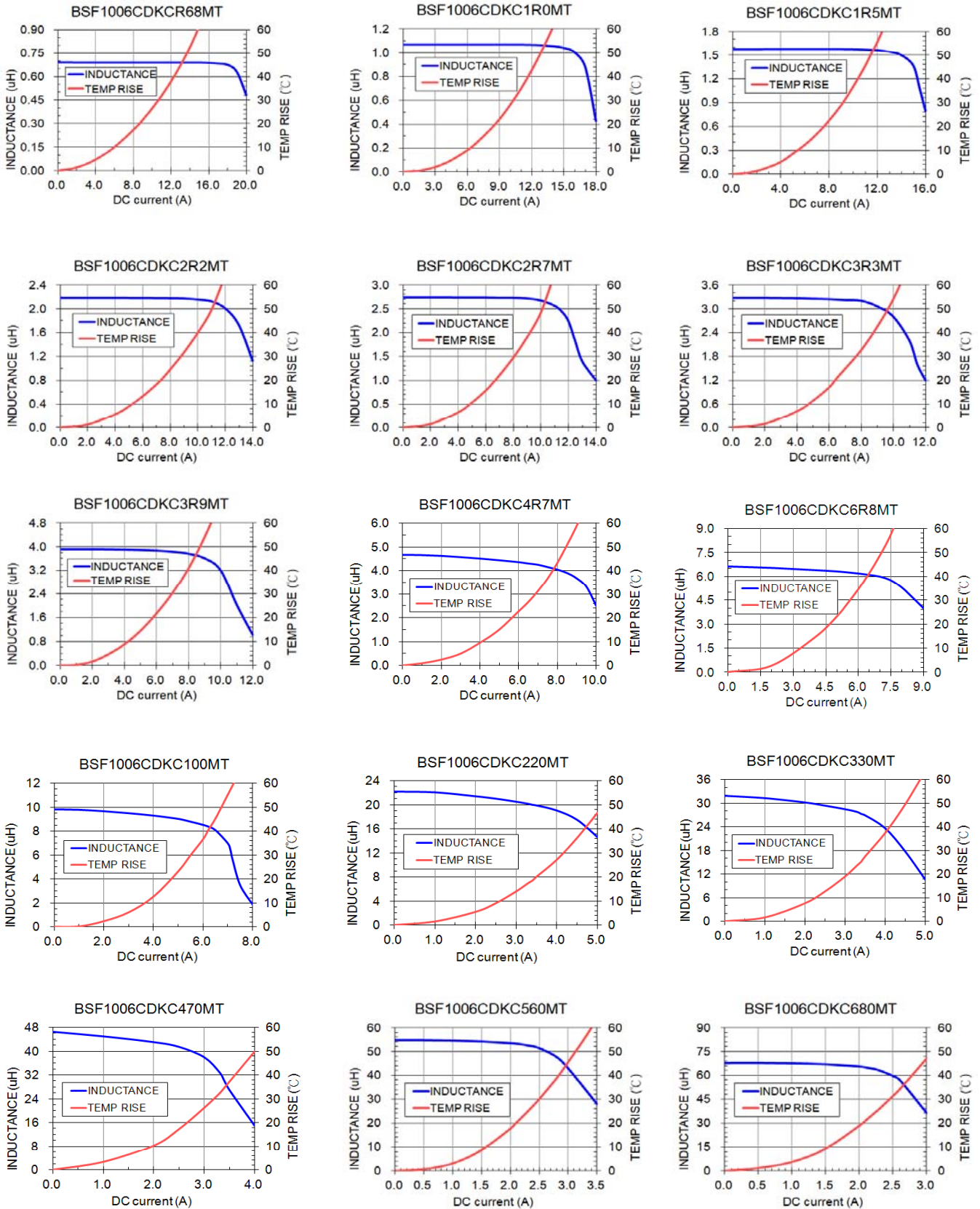
※IDC: Based on Temperature increase 40°C

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

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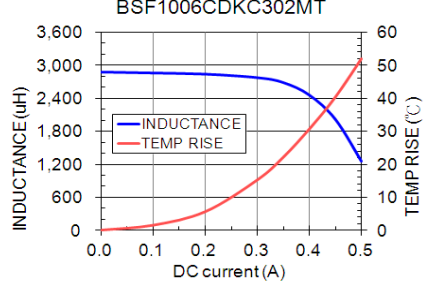
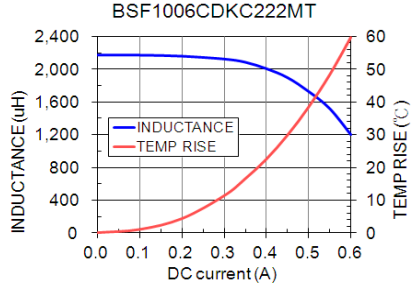
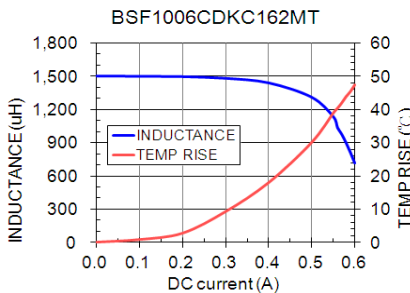
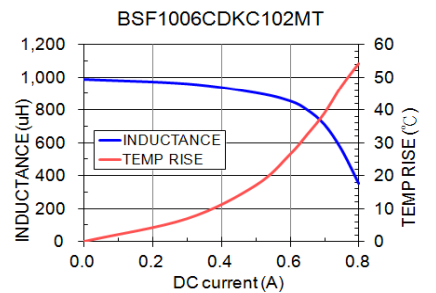
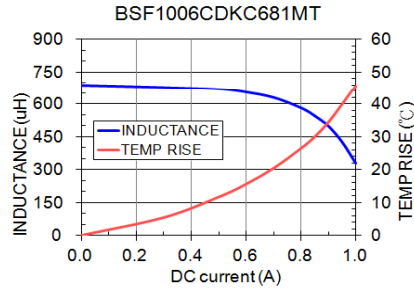
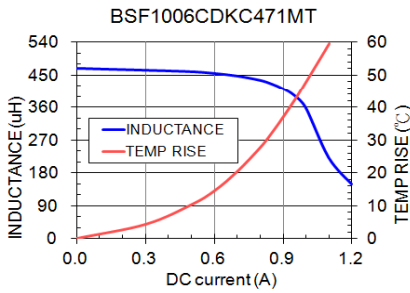
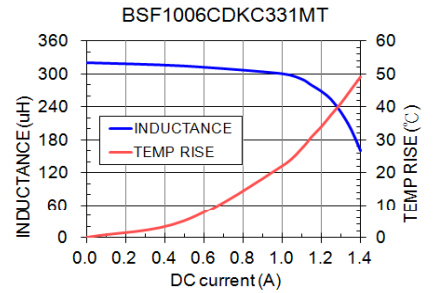
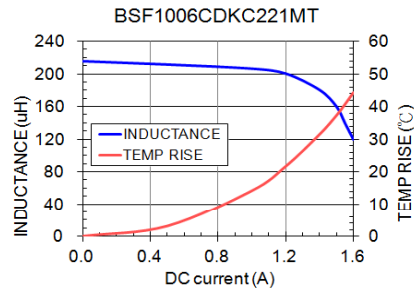
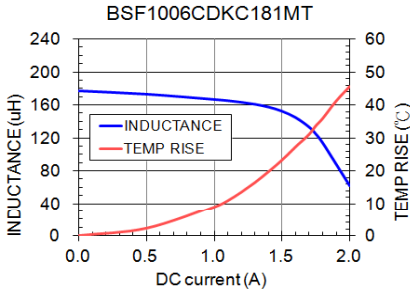
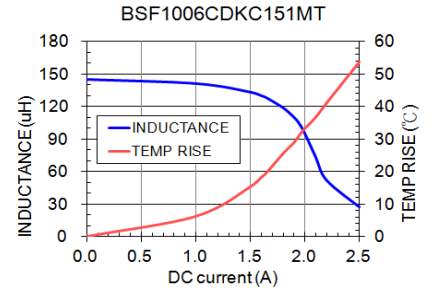
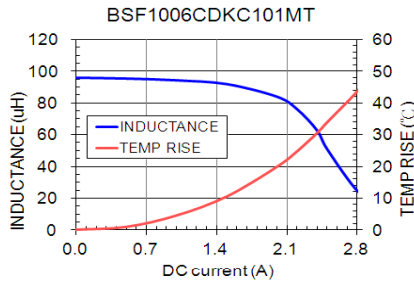
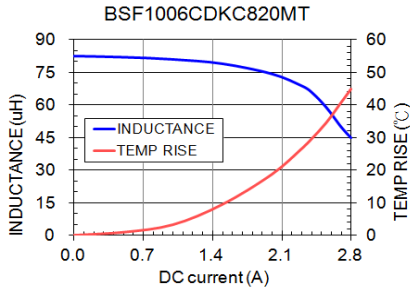
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