

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

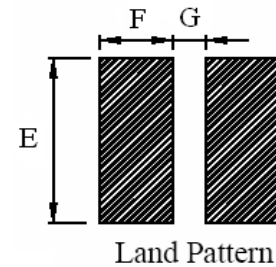
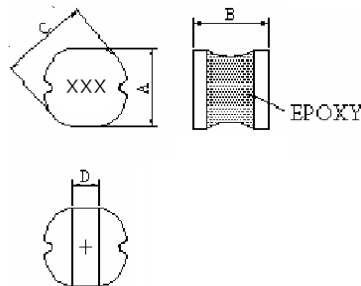
BSF1005CDKC 1R5 M T
 (1) (2) (3) (4)

(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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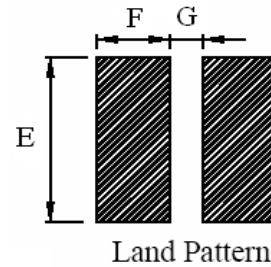
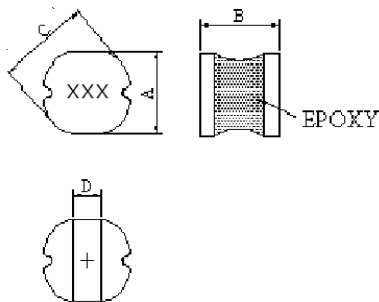
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(4) REEL TAPING



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 → BSF1005CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF1005CDKC1R0MT	1.0	11	80	11.00	6.50
BSF1005CDKC1R5MT	1.5	15	60	8.75	6.20
BSF1005CDKC2R2MT	2.2	17	45	8.00	5.50
BSF1005CDKC3R3MT	3.3	21	30	6.50	5.20
BSF1005CDKC4R7MT	4.7	24	20	5.40	5.10
BSF1005CDKC5R6MT	5.6	26	13	5.00	5.00
BSF1005CDKC6R8MT	6.8	32	13	5.00	5.00
BSF1005CDKC100MT	10	40	13	4.35	4.80
BSF1005CDKC150MT	15	50	10	3.50	4.20
BSF1005CDKC220MT	22	65	7	3.05	3.40
BSF1005CDKC330MT	33	80	7	2.45	3.20
BSF1005CDKC470MT	47	120	5	2.00	2.20
BSF1005CDKC680MT	68	150	2.5	1.65	2.10
BSF1005CDKC820MT	82	195	2.5	1.50	2.00
BSF1005CDKC101MT	100	210	2.5	1.40	1.80
BSF1005CDKC181MT	180	390	1	1.10	1.40
BSF1005CDKC221MT	220	430	1	0.95	1.30
BSF1005CDKC271MT	270	720	1	0.90	1.10
BSF1005CDKC331MT	330	830	1	0.85	1.00
BSF1005CDKC391MT	390	940	1	0.80	0.95
BSF1005CDKC471MT	470	1050	1	0.75	0.90
BSF1005CDKC561MT	560	1550	0.7	0.65	0.75
BSF1005CDKC681MT	680	1750	0.7	0.60	0.70
BSF1005CDKC821MT	820	2000	0.7	0.55	0.65
BSF1005CDKC102MT	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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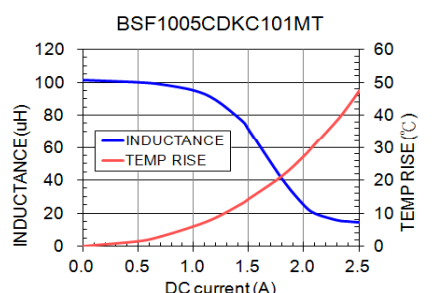
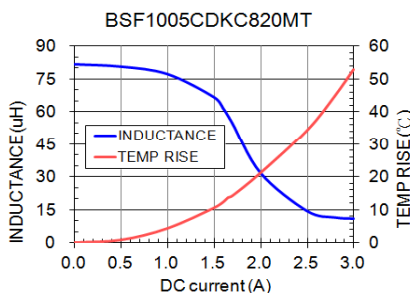
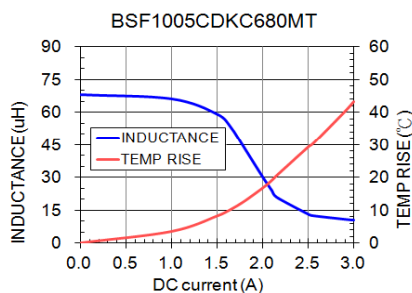
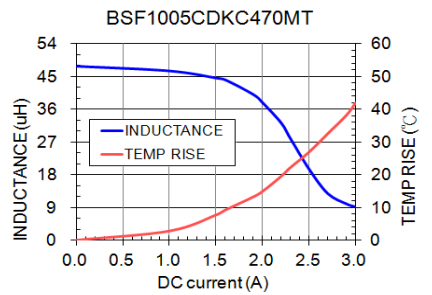
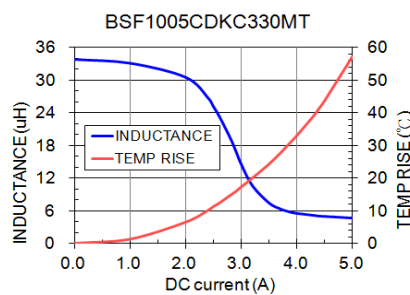
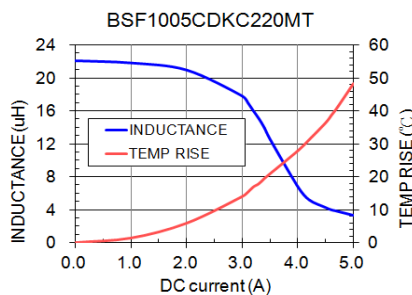
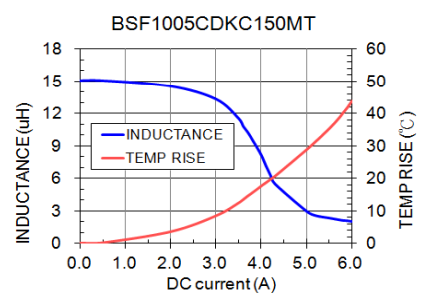
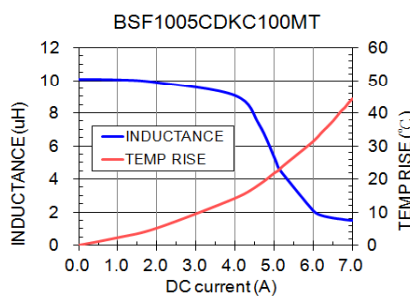
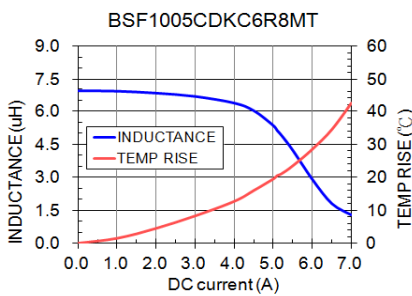
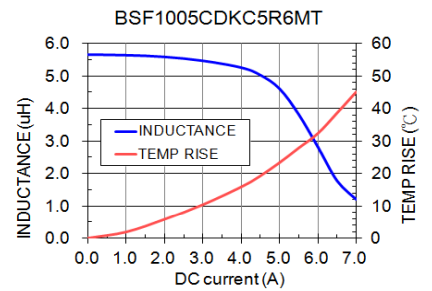
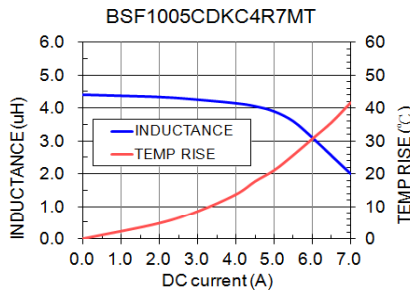
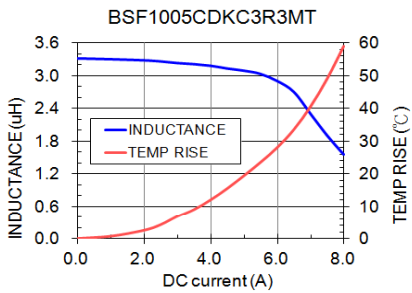
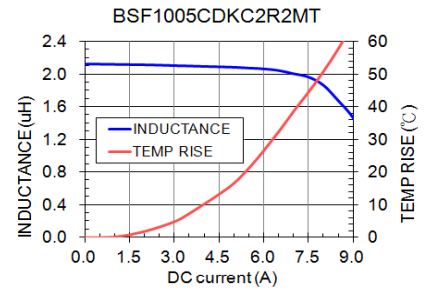
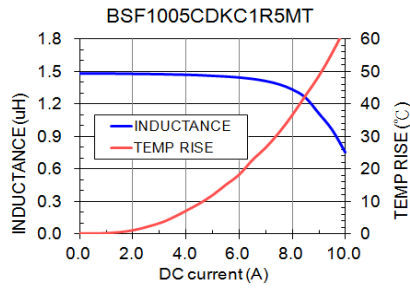
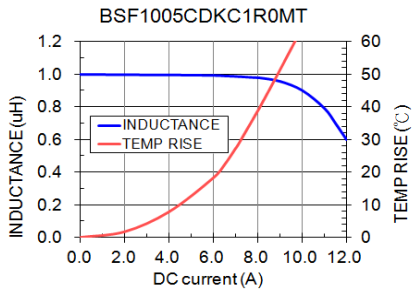


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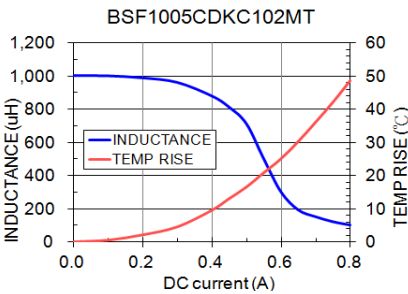
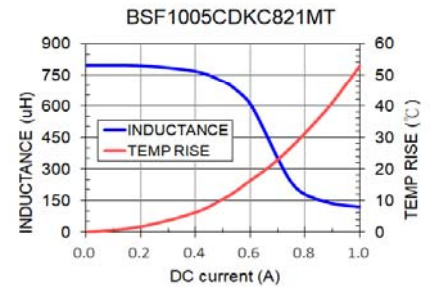
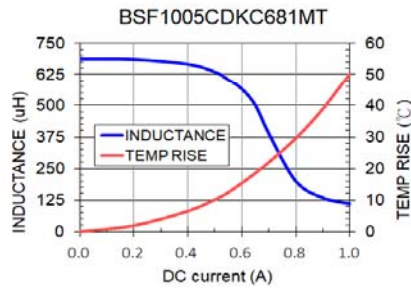
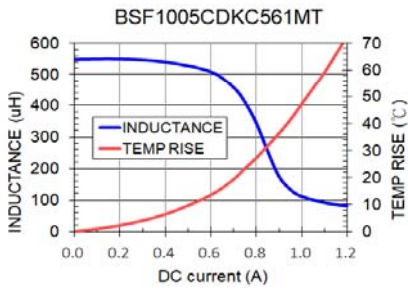
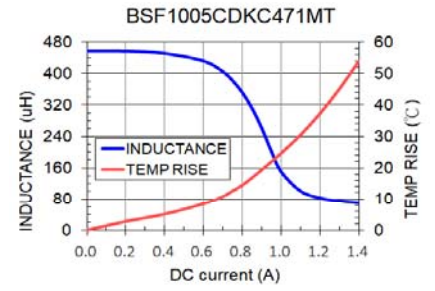
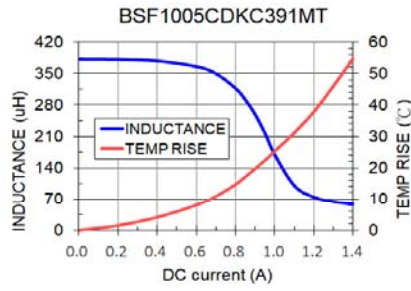
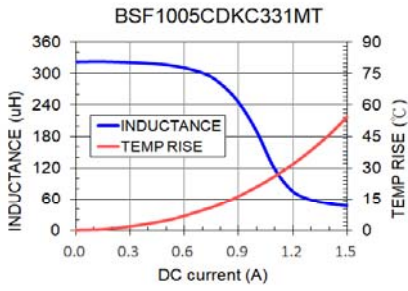
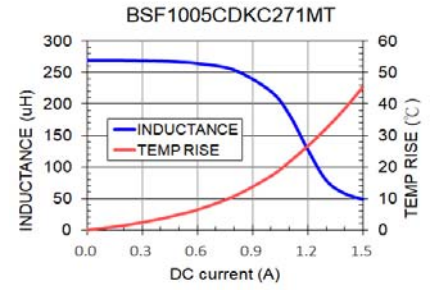
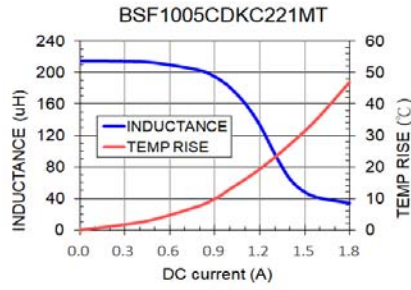
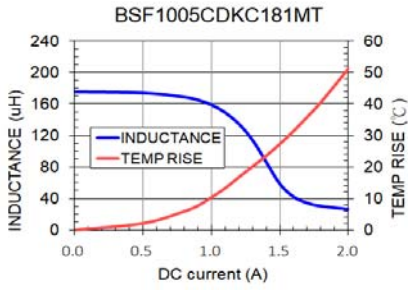
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