

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

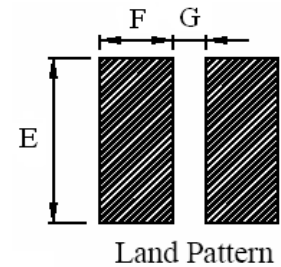
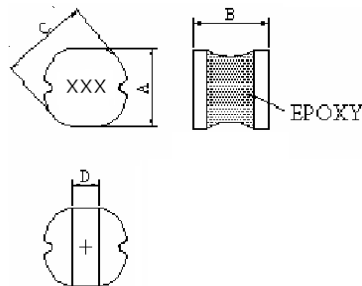
BSF1004CDKC 122 M T
 (1) (2) (3) (4)

(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 → BSF1004CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF1004CDKC470MT	47	190	7	2.00	1.90
BSF1004CDKC560MT	56	210	5	1.70	1.85
BSF1004CDKC680MT	68	220	5	1.55	1.80
BSF1004CDKC820MT	82	250	5	1.40	1.75
BSF1004CDKC101MT	100	450	5	1.20	1.20
BSF1004CDKC121MT	120	500	2.5	1.15	1.10
BSF1004CDKC151MT	150	550	2.5	1.05	1.10
BSF1004CDKC181MT	180	650	2.5	1.00	1.05
BSF1004CDKC221MT	220	750	2.5	0.90	1.00
BSF1004CDKC271MT	270	850	2.5	0.83	1.00
BSF1004CDKC331MT	330	1200	1	0.74	0.67
BSF1004CDKC391MT	390	1300	1	0.70	0.65
BSF1004CDKC471MT	470	1800	1	0.65	0.64
BSF1004CDKC561MT	560	1900	1	0.60	0.60
BSF1004CDKC681MT	680	2200	1	0.52	0.58
BSF1004CDKC821MT	820	2500	1	0.46	0.56
BSF1004CDKC102MT	1000	3100	1	0.45	0.50
BSF1004CDKC122MT	1200	3400	0.7	0.34	0.47
BSF1004CDKC152MT	1500	4200	0.7	0.30	0.47
BSF1004CDKC182MT	1800	4700	0.7	0.27	0.45
BSF1004CDKC202MT	2000	5900	0.7	0.27	0.37

Test Freq.: 100KHz/1V

Tolerance: K \pm 10%,M \pm 20%

※Isat: Based on Inductance decrease 30%

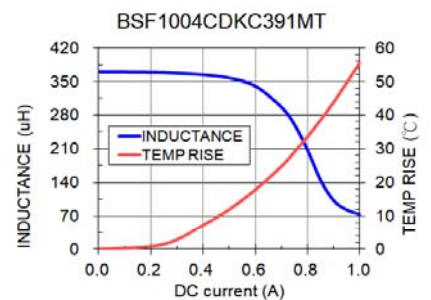
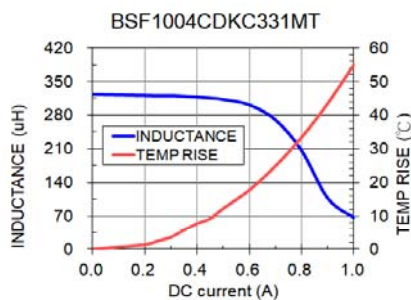
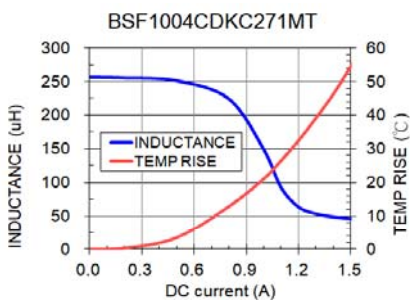
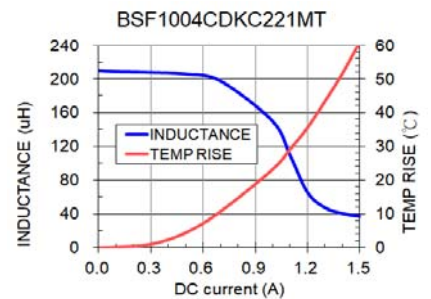
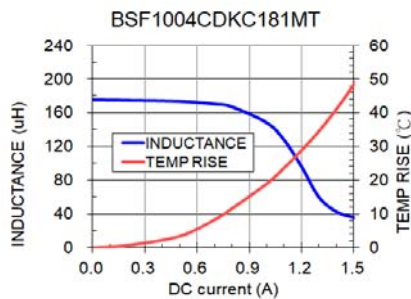
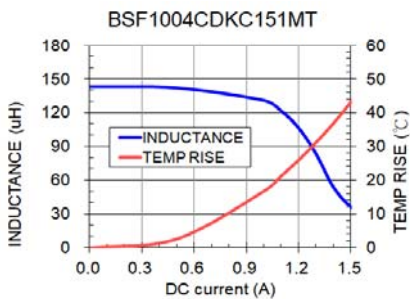
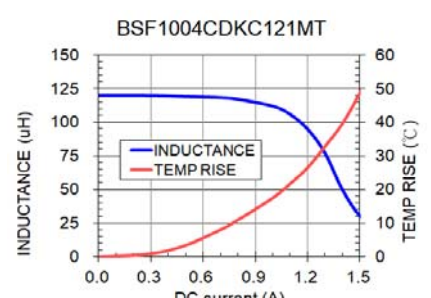
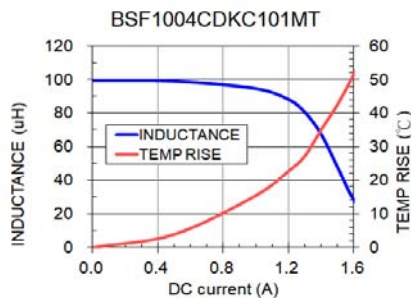
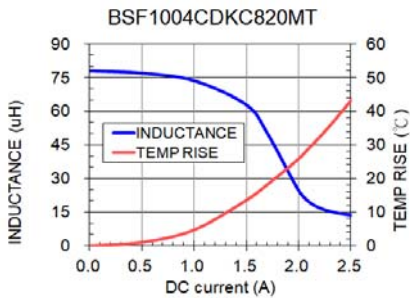
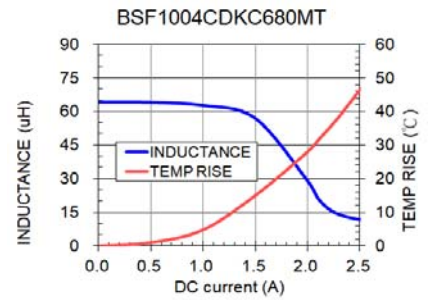
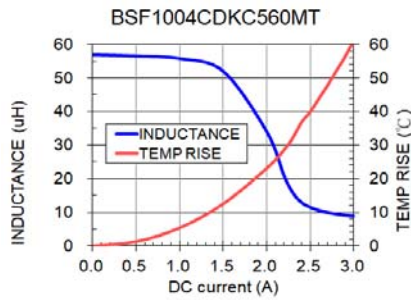
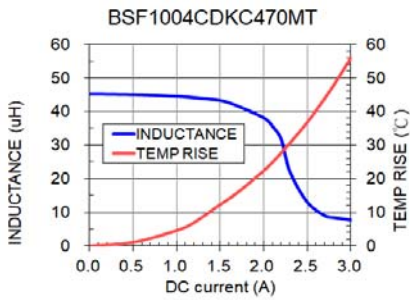
※IDC: Based on Temperature increase 40°C

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

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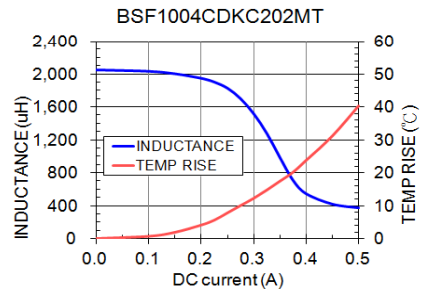
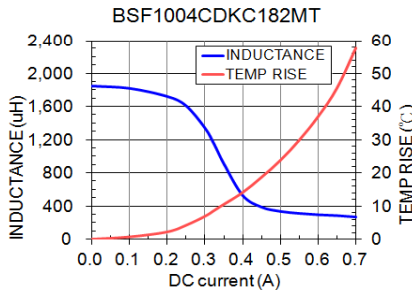
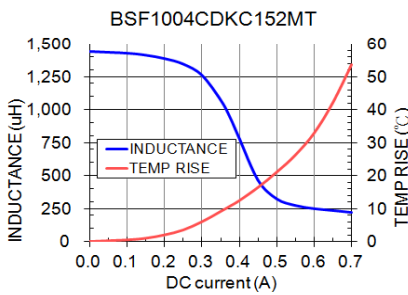
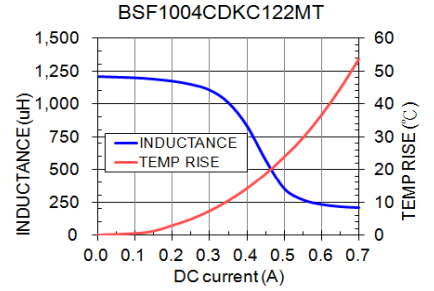
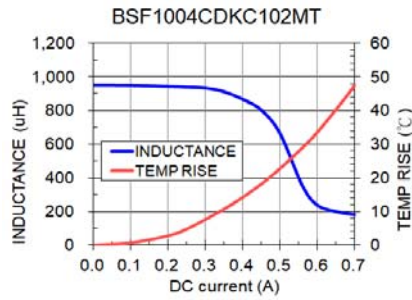
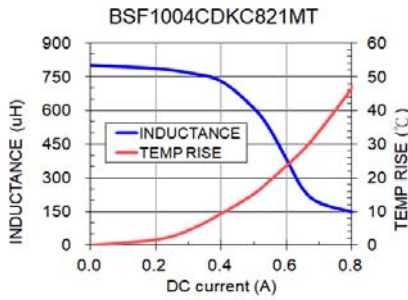
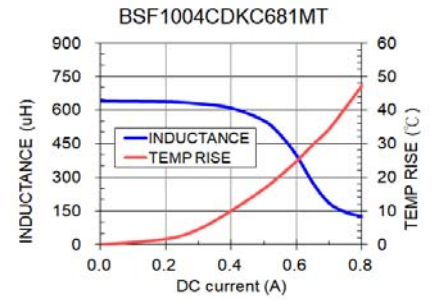
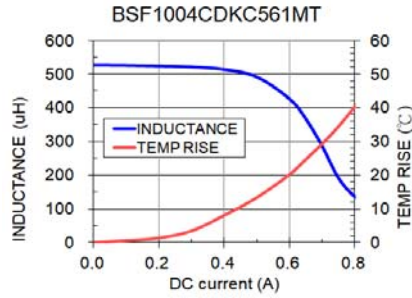
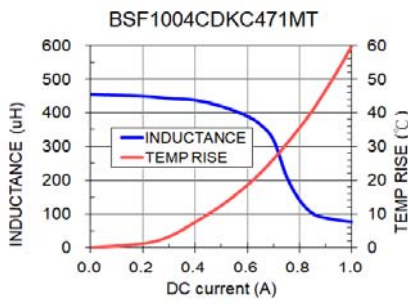


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