

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

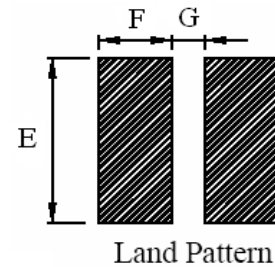
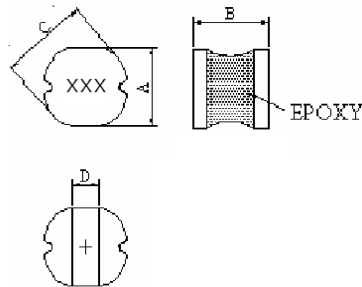
BSF0703CDKC 4R7 M T
 (1) (2) (3) (4)

(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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SMD POWER INDUCTORS → BSF0703CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0703CDKC1R0MT	1.0	13	75	7.00	6.00
BSF0703CDKC1R5MT	1.5	16	60	5.60	5.50
BSF0703CDKC2R2MT	2.2	20	45	4.60	5.00
BSF0703CDKC3R3MT	3.3	25	40	4.10	4.10
BSF0703CDKC4R7MT	4.7	35	30	3.90	3.90
BSF0703CDKC6R8MT	6.8	50	20	3.00	3.10
BSF0703CDKC8R2MT	8.2	55	20	2.80	3.10
BSF0703CDKC100MT	10.0	60	15	2.50	3.00
BSF0703CDKC150MT	15.0	90	13	2.00	2.80
BSF0703CDKC220MT	22.0	130	10	1.70	2.00
BSF0703CDKC330MT	33.0	150	10	1.30	1.90
BSF0703CDKC470MT	47.0	250	7	1.20	1.45
BSF0703CDKC680MT	68.0	320	7	1.00	1.20
BSF0703CDKC820MT	82.0	360	5	0.95	1.20
BSF0703CDKC101MT	100	550	5	0.90	1.00
BSF0703CDKC121MT	120.0	620	5	0.85	0.90
BSF0703CDKC221MT	220	1000	2.5	0.60	0.80
BSF0703CDKC271MT	270	1200	2.5	0.55	0.75
BSF0703CDKC331MT	330	1700	1	0.50	0.60
BSF0703CDKC391MT	390	1900	1	0.43	0.55
BSF0703CDKC471MT	470	2100	1	0.40	0.45
BSF0703CDKC681MT	680	3400	0.7	0.34	0.43
BSF0703CDKC821MT	820	3900	0.7	0.32	0.33
BSF0703CDKC102MT	1000	6000	0.7	0.28	0.32
BSF0703CDKC122MT	1200	7000	0.7	0.25	0.31
BSF0703CDKC152MT	1500	8500	0.7	0.23	0.30

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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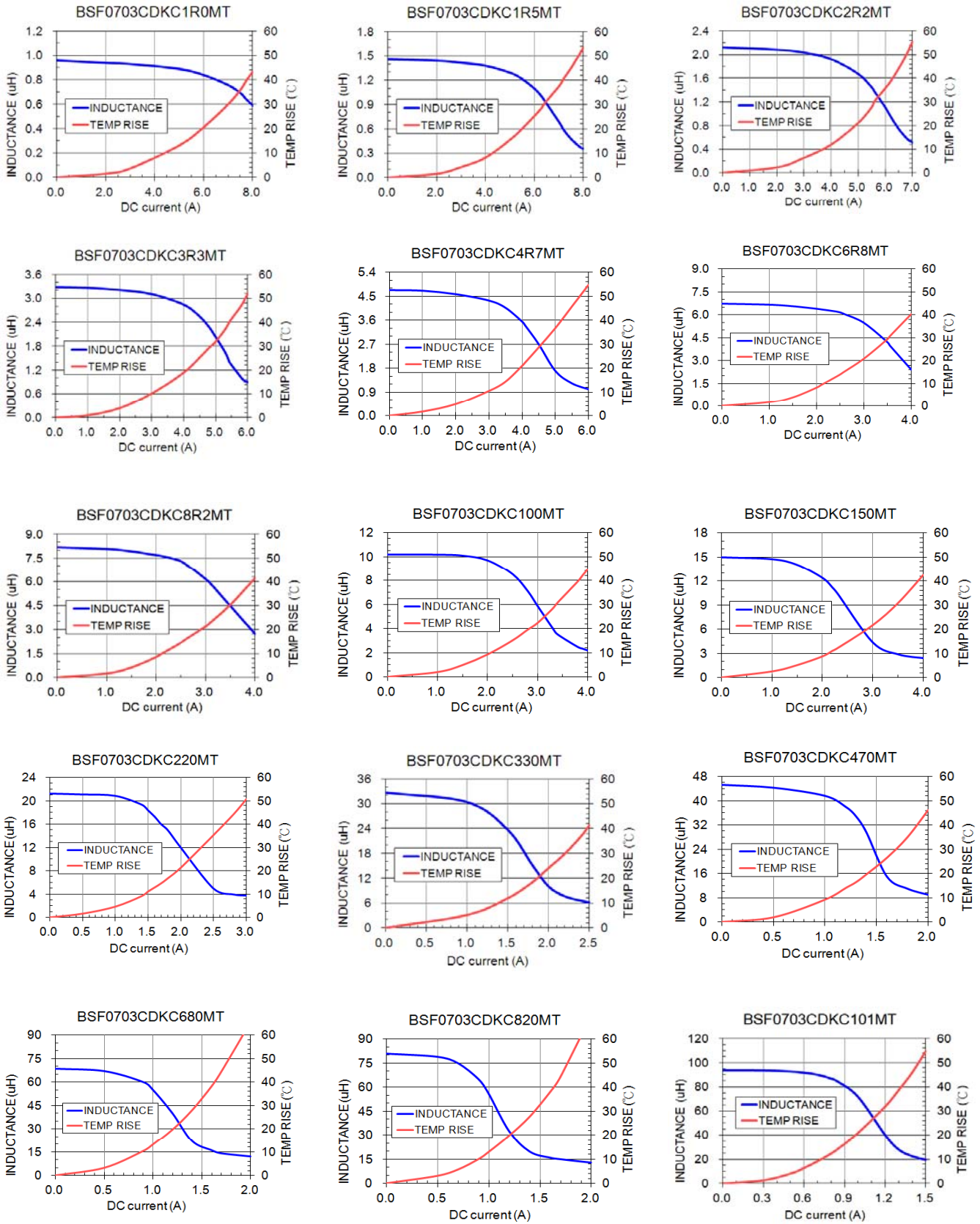


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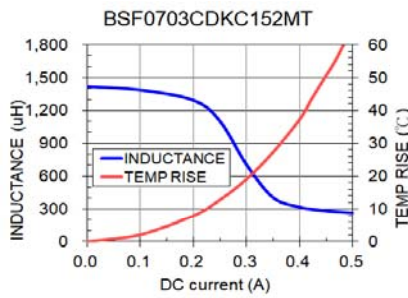
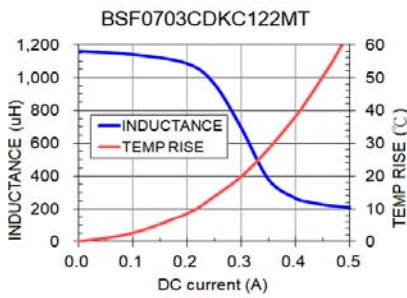
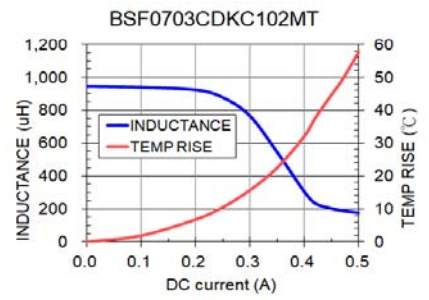
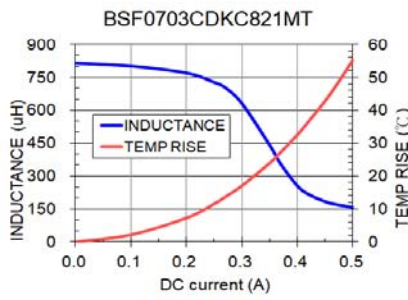
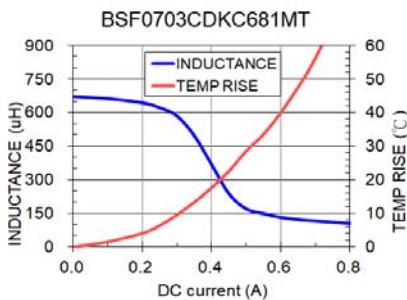
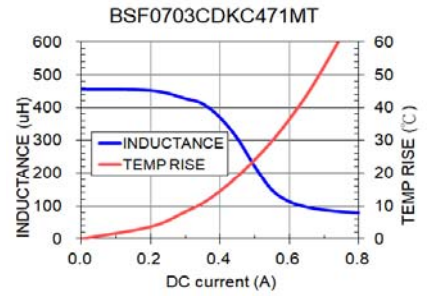
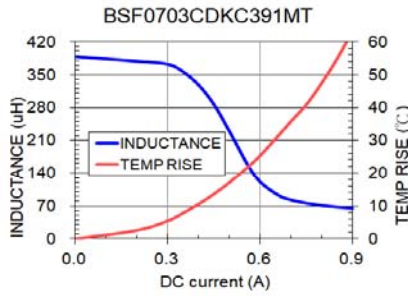
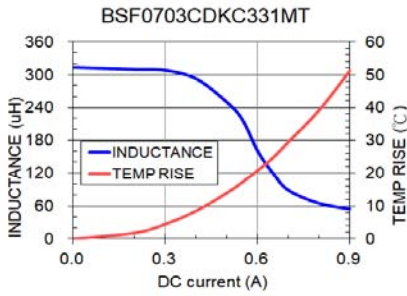
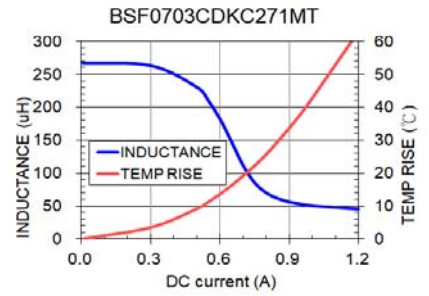
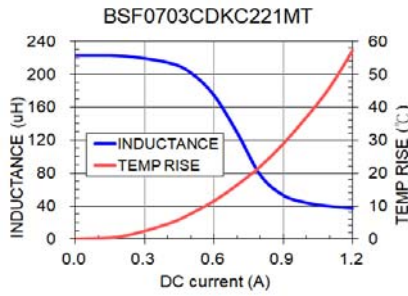
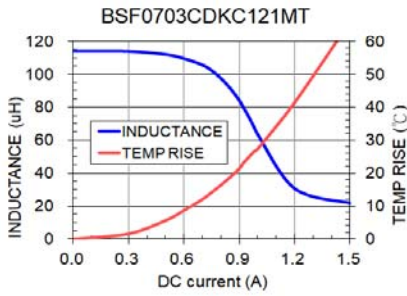
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