

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

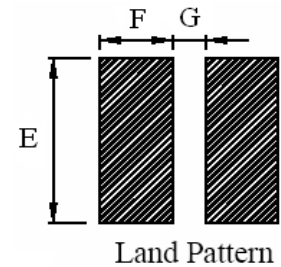
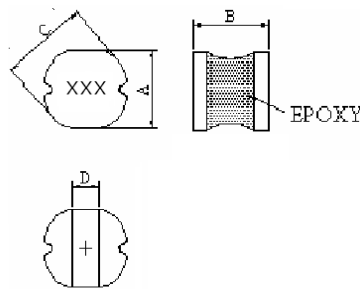
BSF0504CDKC 4R7 M T
 (1) (2) (3) (4)

(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 → BSF0504CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0504CDKC1R0MT	1.0	18	90	6.60	4.20
BSF0504CDKC1R2MT	1.2	20	60	6.30	4.20
BSF0504CDKC1R5MT	1.5	21	60	5.70	4.20
BSF0504CDKC1R8MT	1.8	23	40	5.60	4.10
BSF0504CDKC2R2MT	2.2	28	35	4.85	4.00
BSF0504CDKC2R7MT	2.7	30	30	4.70	3.80
BSF0504CDKC3R3MT	3.3	34	30	4.00	3.50
BSF0504CDKC3R9MT	3.9	36	25	3.90	3.50
BSF0504CDKC4R7MT	4.7	37	25	3.70	3.40
BSF0504CDKC5R6MT	5.6	53	25	3.20	2.80
BSF0504CDKC6R8MT	6.8	60	15	2.85	2.40
BSF0504CDKC8R2MT	8.2	70	15	2.35	2.30
BSF0504CDKC100MT	10	90	13	2.20	2.20
BSF0504CDKC120MT	12	100	10	2.15	2.10
BSF0504CDKC150MT	15	102	10	2.00	2.00
BSF0504CDKC180MT	18	130	10	1.70	1.80
BSF0504CDKC220MT	22	155	10	1.50	1.70
BSF0504CDKC270MT	27	190	7	1.50	1.60
BSF0504CDKC330MT	33	200	7	1.40	1.60
BSF0504CDKC390MT	39	250	7	1.40	1.40
BSF0504CDKC470MT	47	320	7	1.20	1.20
BSF0504CDKC560MT	56	370	5	1.05	1.10
BSF0504CDKC680MT	68	420	5	0.90	1.10
BSF0504CDKC820MT	82	470	5	0.85	1.00
BSF0504CDKC101MT	100	650	2.5	0.75	0.85
BSF0504CDKC121MT	120	700	2.5	0.65	0.75
BSF0504CDKC151MT	150	800	2.5	0.55	0.70
BSF0504CDKC181MT	180	1000	2.5	0.53	0.65
BSF0504CDKC221MT	220	1200	1	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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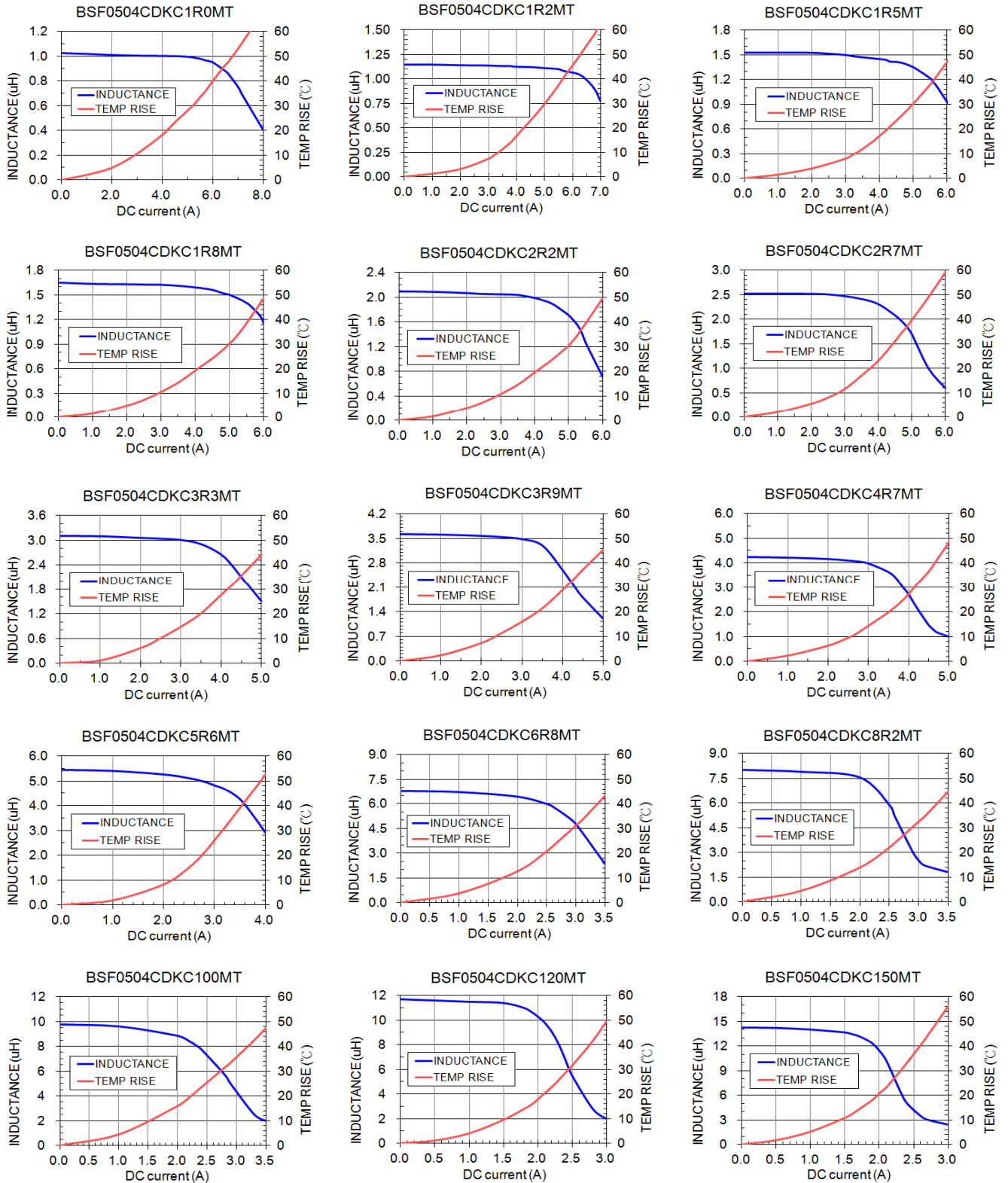


KING CORE ELECTRONICS INC.
Tel:886-3-4698855 Fax:886-3-4691395

No.269,Nanfong Rd.,Pingjhen City,Taoyuan County, Taiwan
E-mail:kc@mail.kingcore.com.tw Web Site:http://www.kingcore.com.tw

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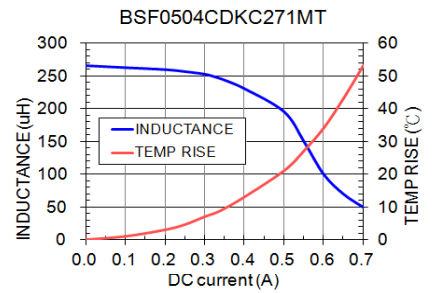
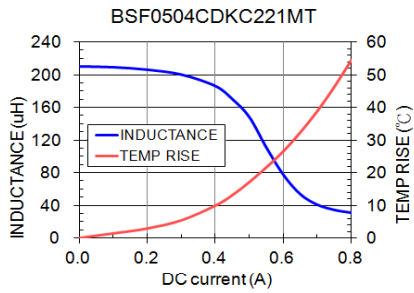
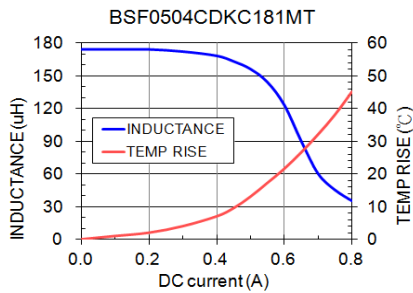
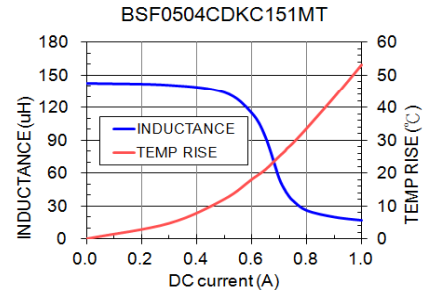
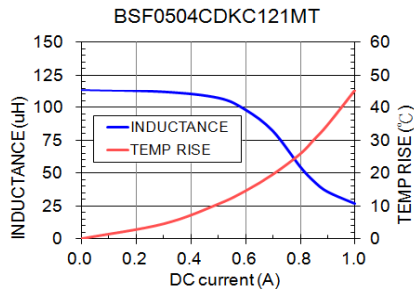
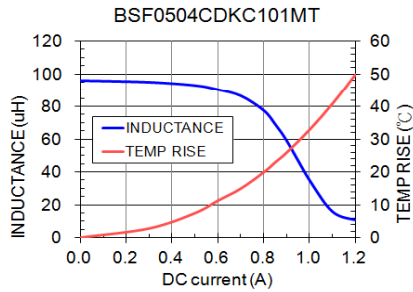
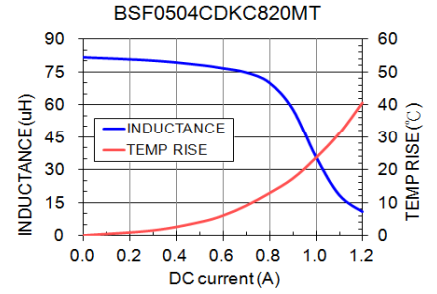
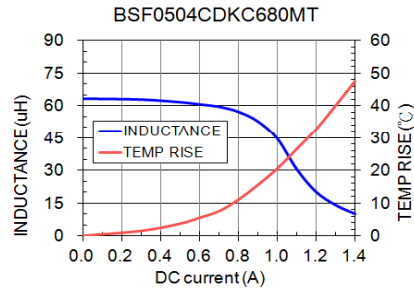
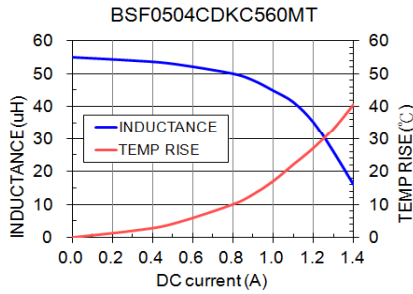
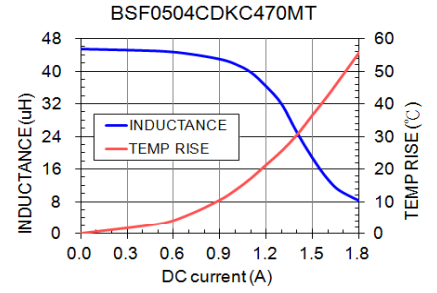
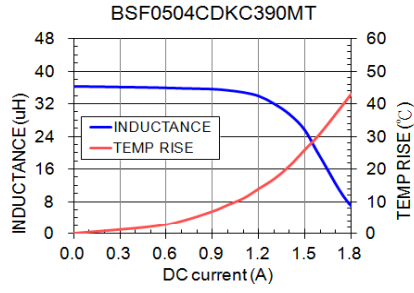
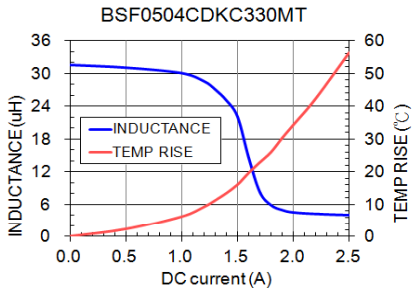
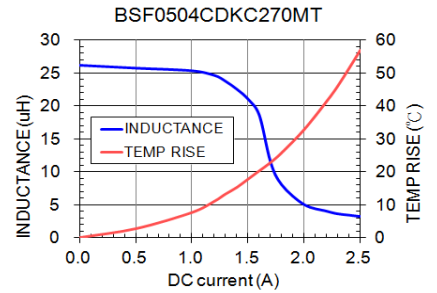
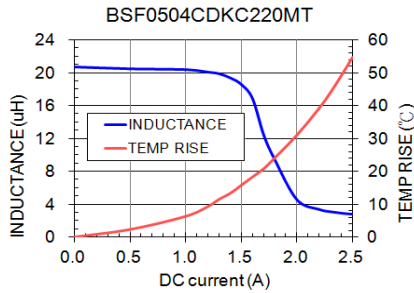
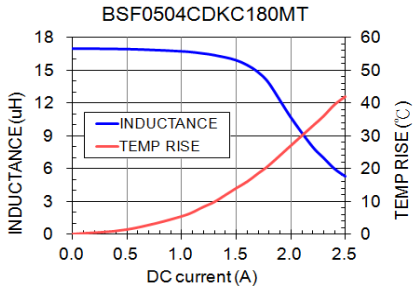
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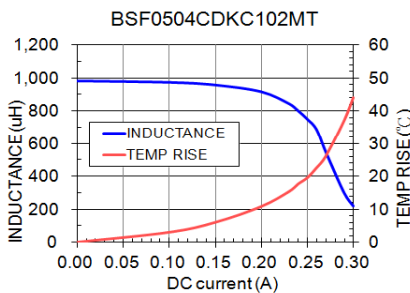
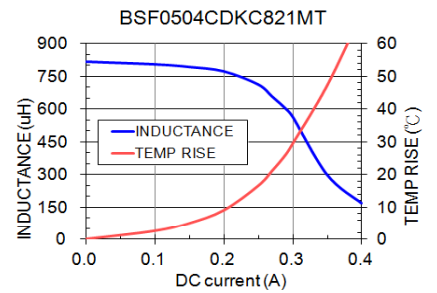
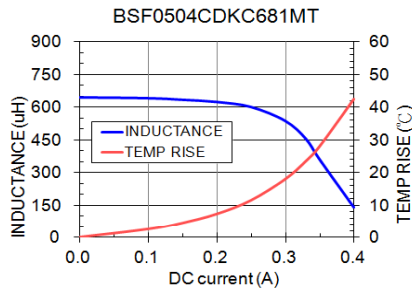
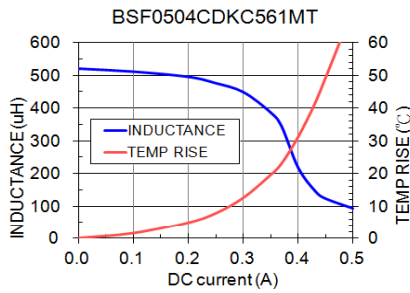
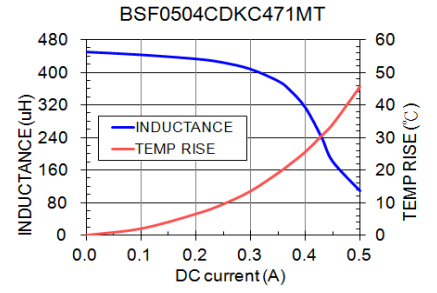
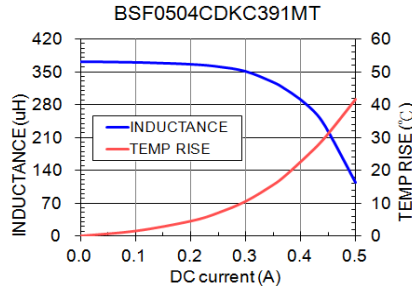
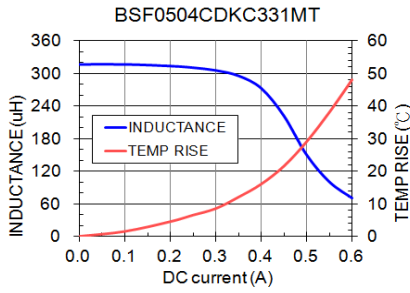
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