

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

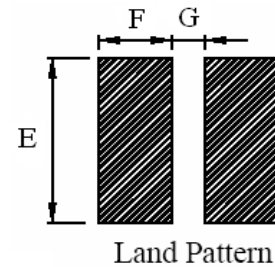
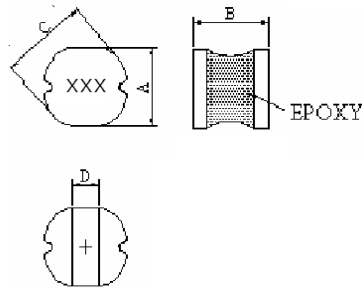
BSF0705CDKC 6R8 M T
 (1) (2) (3) (4)

(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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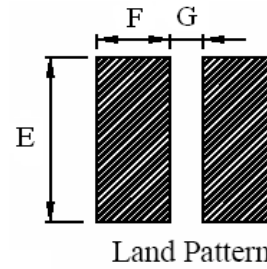
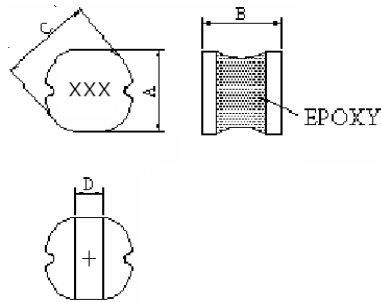
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(4) REEL TAPING



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 → BSF0705CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0705CDKC1R0MT	1.0	25	80	6.70	4.50
BSF0705CDKC1R5MT	1.5	30	65	6.40	4.40
BSF0705CDKC2R2MT	2.2	35	50	5.20	4.00
BSF0705CDKC2R7MT	2.7	38	35	5.15	3.90
BSF0705CDKC3R3MT	3.3	40	30	5.15	3.80
BSF0705CDKC4R7MT	4.7	45	20	4.10	3.60
BSF0705CDKC5R6MT	5.6	50	15	3.50	3.50
BSF0705CDKC6R8MT	6.8	60	15	3.40	3.40
BSF0705CDKC8R2MT	8.2	63	13	3.30	3.40
BSF0705CDKC100MT	10	65	10	2.70	3.40
BSF0705CDKC120MT	12	75	10	2.60	2.50
BSF0705CDKC150MT	15	80	7	2.50	2.30
BSF0705CDKC180MT	18	90	7	2.20	2.20
BSF0705CDKC220MT	22	100	7	2.15	2.15
BSF0705CDKC270MT	27	115	7	1.90	2.00
BSF0705CDKC330MT	33	125	7	1.80	1.90
BSF0705CDKC390MT	39	150	7	1.75	1.90
BSF0705CDKC470MT	47	160	5	1.60	1.90
BSF0705CDKC560MT	56	180	5	1.50	1.70
BSF0705CDKC680MT	68	260	2.5	1.20	1.40
BSF0705CDKC820MT	82	300	2.5	1.05	1.30
BSF0705CDKC101MT	100	350	2.5	1.00	1.30
BSF0705CDKC121MT	120	440	2.5	0.91	1.10
BSF0705CDKC151MT	150	500	2.5	0.75	1.10
BSF0705CDKC181MT	180	600	2.5	0.72	0.95
BSF0705CDKC221MT	220	750	1	0.62	0.90
BSF0705CDKC271MT	270	800	1	0.57	0.85
BSF0705CDKC331MT	330	1100	1	0.50	0.80
BSF0705CDKC391MT	390	1400	1	0.45	0.65
BSF0705CDKC471MT	470	1500	1	0.40	0.62
BSF0705CDKC561MT	560	1700	0.7	0.38	0.55
BSF0705CDKC681MT	680	2100	0.7	0.37	0.54
BSF0705CDKC821MT	820	2500	0.7	0.34	0.48
BSF0705CDKC102MT	1000	3000	0.7	0.30	0.46

Tolerance: K \pm 10%,M \pm 20% (Test Freq.:100KHz/1V)

※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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SMD POWER INDUCTORS → BSF0705CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μH)	DC Resistance (mΩ)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSF0705CDKC122MT	1200	5000	0.7	0.29	0.30
BSF0705CDKC152MT	1500	5700	0.7	0.27	0.29
BSF0705CDKC222MT	2200	6500	0.7	0.22	0.28
BSF0705CDKC332MT	3300	13000	0.7	0.17	0.20

Tolerance: K±10%,M±20% (Test Freq.:100KHz/1V)

※Isat:Based on Inductance decrease 30%

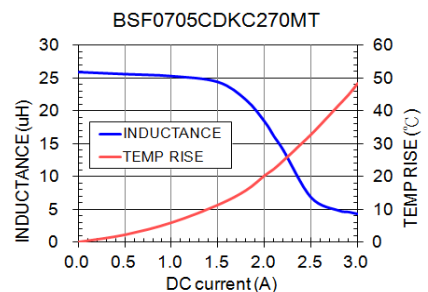
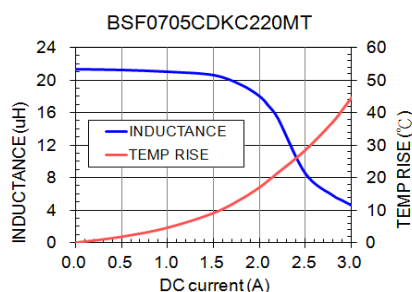
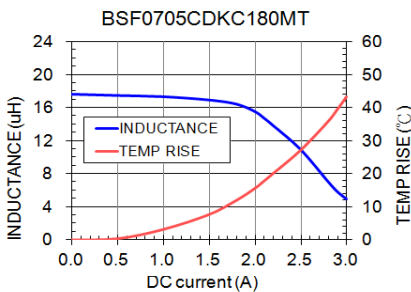
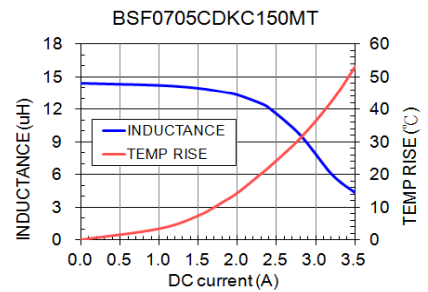
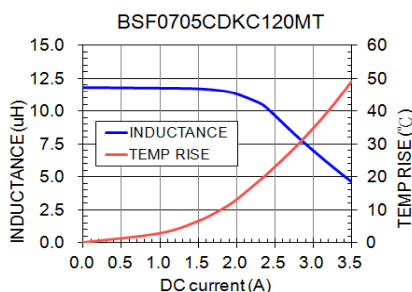
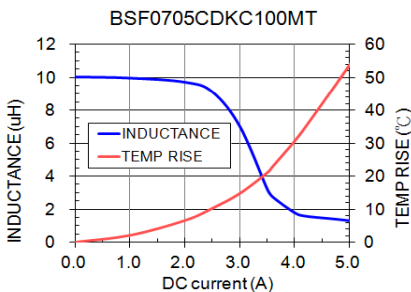
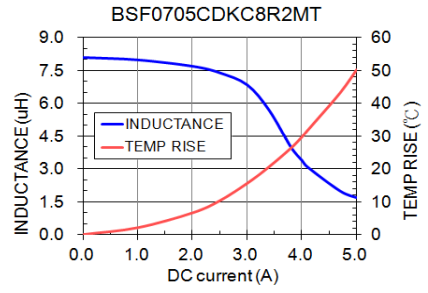
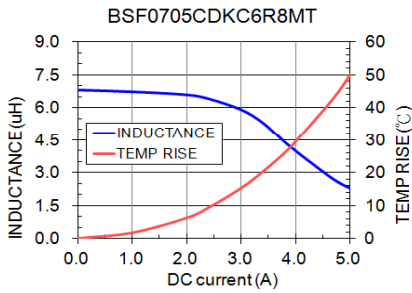
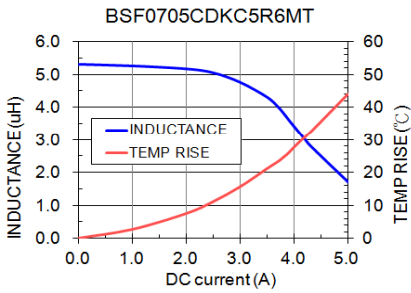
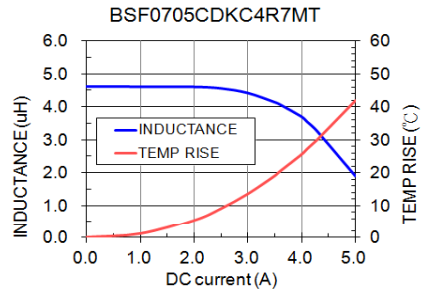
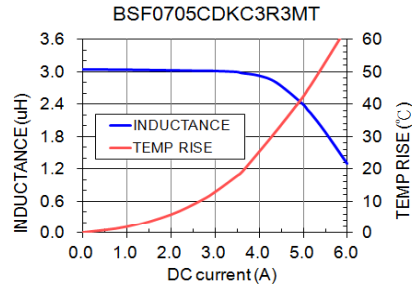
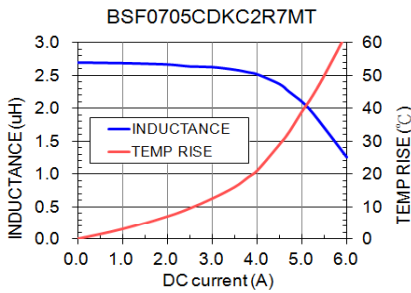
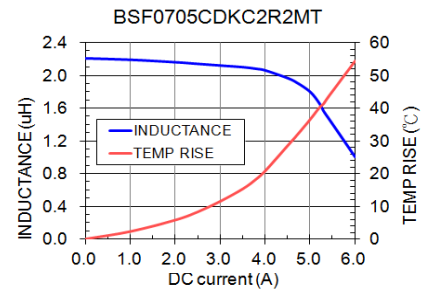
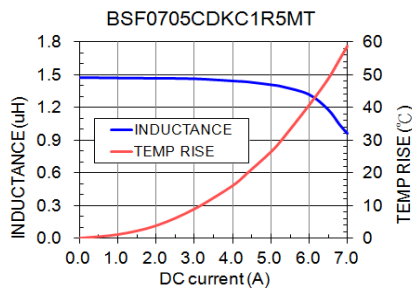
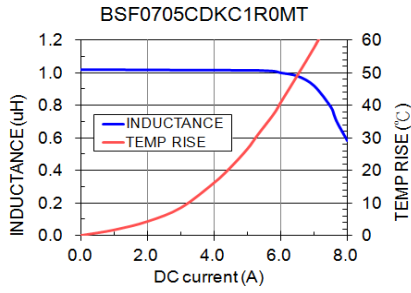
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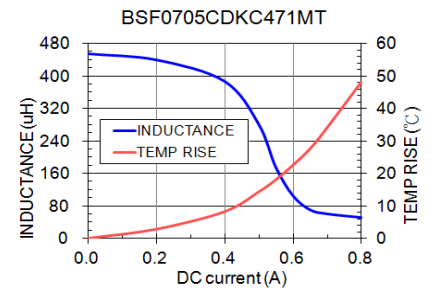
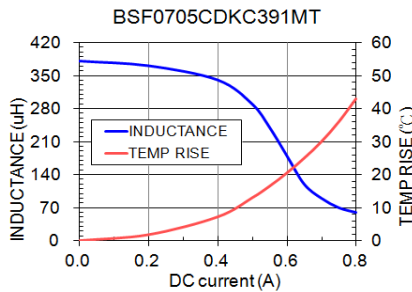
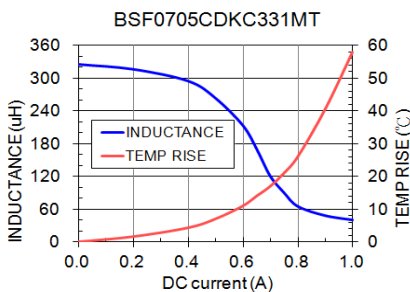
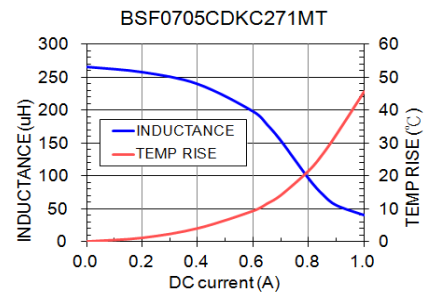
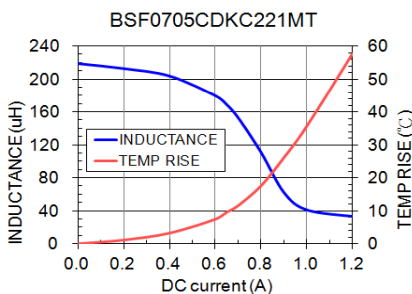
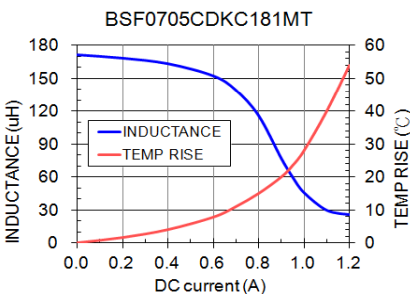
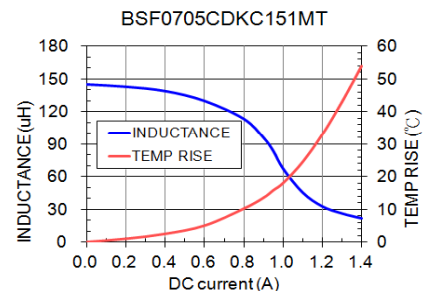
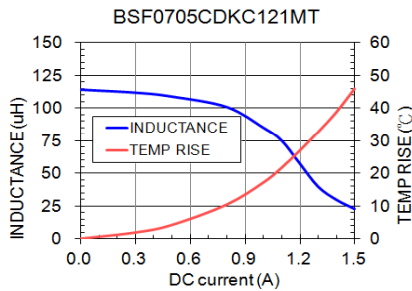
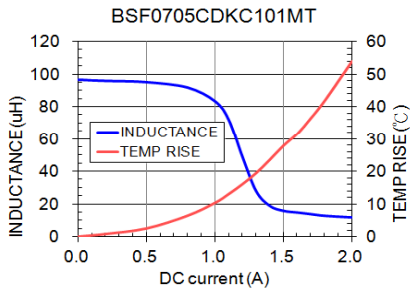
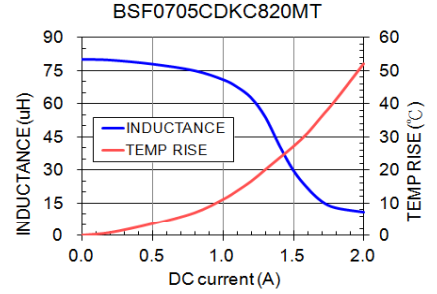
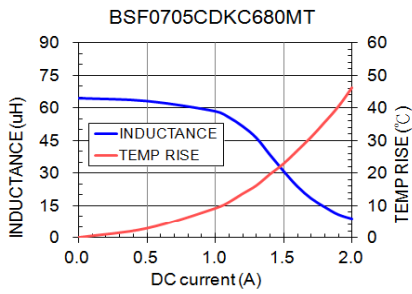
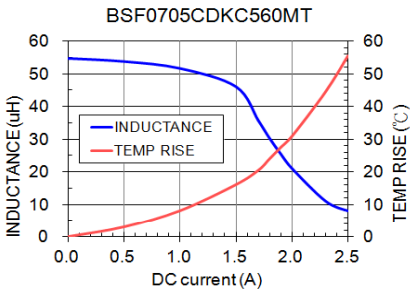
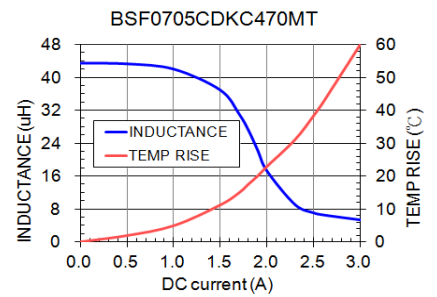
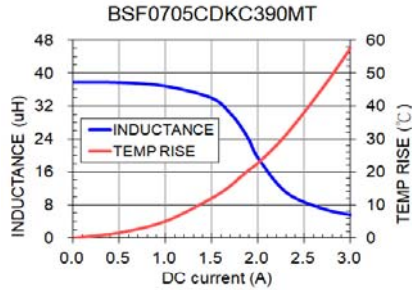
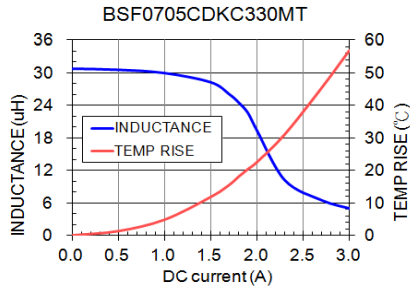
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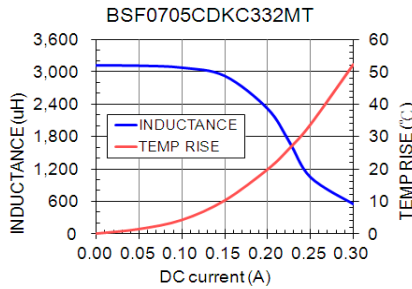
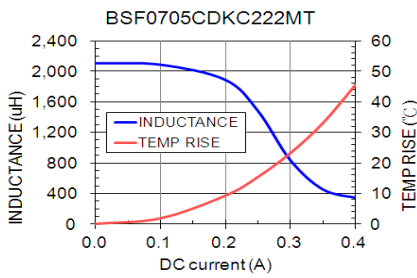
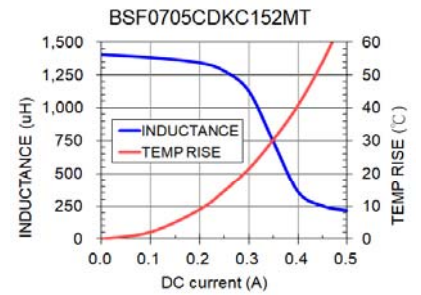
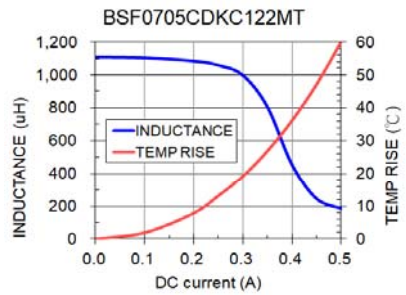
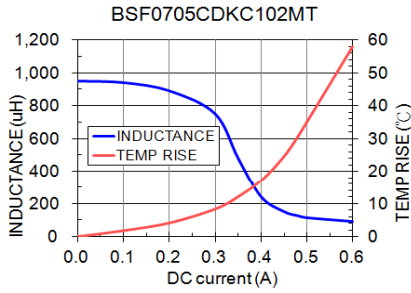
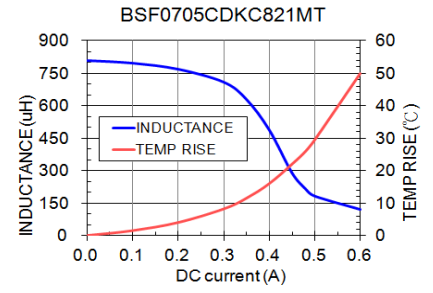
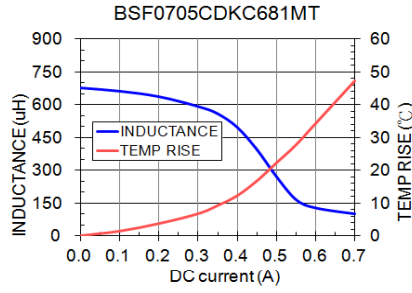
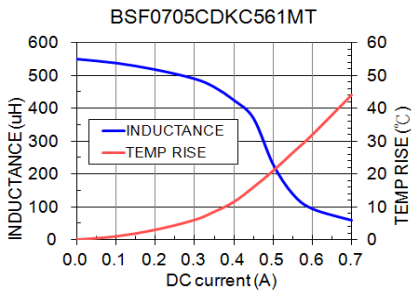
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