

SPECIFICATION OF BSFQ□□□CDKC SERIES

AEC-Q200



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. Compatible with Pb-free RoHS and AEC-Q200.



APPLICATIONS

1. Automotive application

ORDERING CODE

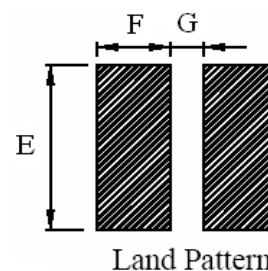
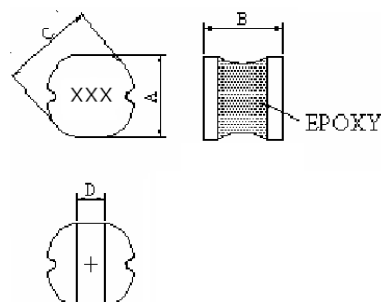
BSFQ0402CDKC 101 M T
(1) (2) (3)(4)

(1) PRODUCT TYPE CODE AND SIZE CODE

(2) INDUCTANCE

(3) INDUCTANCE TOLERANCE (K : $\pm 10\%$, M : $\pm 20\%$)

(4) REEL TAPING



Land Pattern

SHAPE & DIMENSIONS

UNIT:mm

SIZE CODE	A	B	C	D Typ.	E	F	G		
BSFQ0318CDKC	3.0 $\pm$ 0.3	1.9(max)	3.5 $\pm$ 0.3	1.2	3.5	1.60	0.8		
BSFQ0302CDKC	3.0 $\pm$ 0.3	2.3(max)	3.5 $\pm$ 0.3	1.2	3.5	1.60	0.8		
BSFQ0402CDKC	4.0 $\pm$ 0.3	2.2 $\pm$ 0.3	4.5 $\pm$ 0.3	1.5	4.5	2.10	0.8		
BSFQ0403CDKC	4.0 $\pm$ 0.3	3.2 $\pm$ 0.3	4.5 $\pm$ 0.3	1.5	4.5	2.10	0.8		
BSFQ0502CDKC	5.2 $\pm$ 0.3	2.5 $\pm$ 0.3	5.8 $\pm$ 0.3	2.0	5.5	2.25	1.5		
BSFQ0503CDKC	5.2 $\pm$ 0.3	3.0 $\pm$ 0.3	5.8 $\pm$ 0.3	2.0	5.5	2.25	1.5		
BSFQ0504CDKC	5.2 $\pm$ 0.3	4.5 $\pm$ 0.3	5.8 $\pm$ 0.3	2.0	5.5	2.25	1.5		
BSFQ0703CDKC	7.0 $\pm$ 0.3	3.5 $\pm$ 0.3	7.8 $\pm$ 0.3	2.5	7.5	3.05	1.9		
BSFQ0705CDKC	7.0 $\pm$ 0.3	5.0 $\pm$ 0.3	7.8 $\pm$ 0.3	2.5	7.5	3.05	1.9		
BSFQ1004CDKC	9.0 $\pm$ 0.3	4.0 $\pm$ 0.3	10.0 $\pm$ 0.3	2.9	9.5	3.65	2.5		
BSFQ1005CDKC	9.0 $\pm$ 0.3	5.4 $\pm$ 0.3	10.0 $\pm$ 0.3	2.9	9.5	3.65	2.5		
BSFQ1006CDKC	9.0 $\pm$ 0.3	6.8 $\pm$ 0.3	10.0 $\pm$ 0.3	2.9	9.5	3.65	2.5		

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ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0402CDKC1R0MT	1.0	40	75	3.85	3.20
BSFQ0402CDKC1R2MT	1.2	45	65	3.90	3.20
BSFQ0402CDKC1R5MT	1.5	50	60	3.30	3.10
BSFQ0402CDKC1R8MT	1.8	55	50	3.20	2.90
BSFQ0402CDKC2R2MT	2.2	65	45	3.00	2.70
BSFQ0402CDKC2R7MT	2.7	70	40	2.90	2.60
BSFQ0402CDKC3R3MT	3.3	80	35	2.60	2.40
BSFQ0402CDKC3R9MT	3.9	110	35	2.30	2.00
BSFQ0402CDKC4R7MT	4.7	120	30	2.05	1.90
BSFQ0402CDKC5R6MT	5.6	130	30	1.95	1.80
BSFQ0402CDKC6R8MT	6.8	150	25	1.90	1.70
BSFQ0402CDKC8R2MT	8.2	170	25	1.70	1.60
BSFQ0402CDKC100MT	10	220	15	1.55	1.50
BSFQ0402CDKC120MT	12	250	15	1.40	1.30
BSFQ0402CDKC150MT	15	280	15	1.30	1.30
BSFQ0402CDKC180MT	18	320	13	1.20	1.20
BSFQ0402CDKC220MT	22	350	13	1.10	1.10
BSFQ0402CDKC270MT	27	450	10	1.00	1.00
BSFQ0402CDKC330MT	33	550	10	0.94	0.95
BSFQ0402CDKC390MT	39	600	10	0.87	0.88
BSFQ0402CDKC470MT	47	800	7	0.80	0.85
BSFQ0402CDKC560MT	56	1000	7	0.70	0.70
BSFQ0402CDKC680MT	68	1100	7	0.62	0.64
BSFQ0402CDKC820MT	82	1700	7	0.55	0.54
BSFQ0402CDKC101MT	100	2000	5	0.53	0.49
BSFQ0402CDKC121MT	120	2200	5	0.47	0.48
BSFQ0402CDKC151MT	150	2700	5	0.42	0.43
BSFQ0402CDKC181MT	180	3300	2.5	0.38	0.39
BSFQ0402CDKC221MT	220	3700	2.5	0.35	0.37
BSFQ0402CDKC271MT	270	5500	2.5	0.31	0.34
BSFQ0402CDKC331MT	330	6000	2.5	0.29	0.32

Test Freq.:100KHz/0.1V

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

※Isat:Based on Inductance decrease 30%

※IDC:Based on Temperature increase 40℃

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

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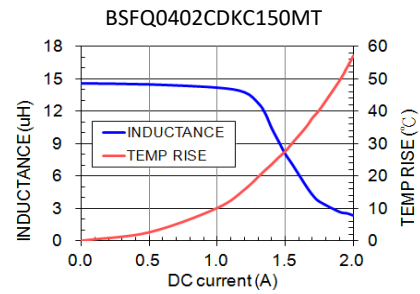
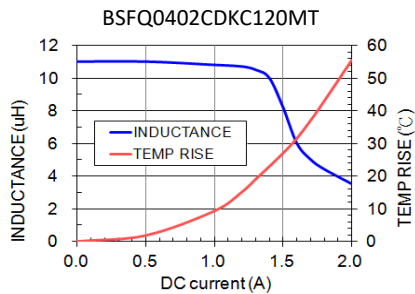
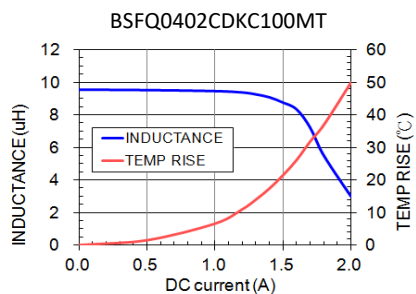
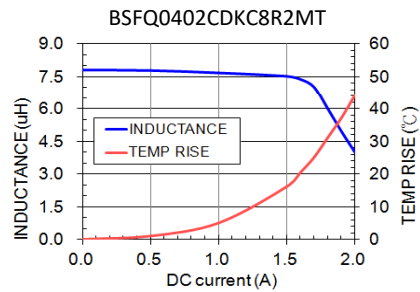
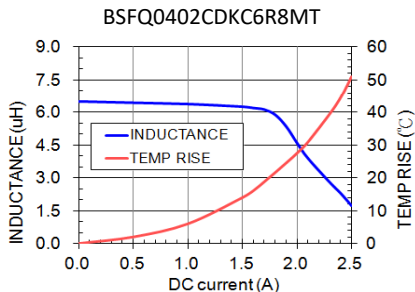
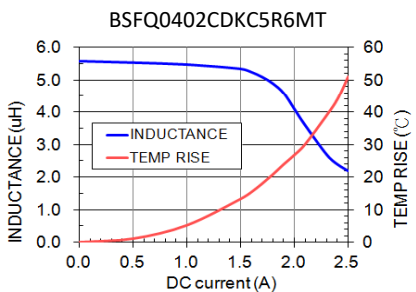
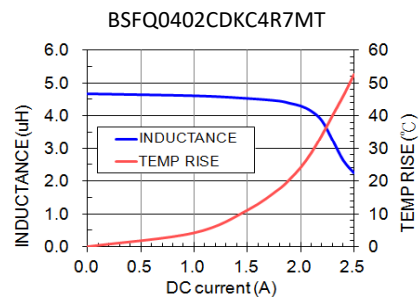
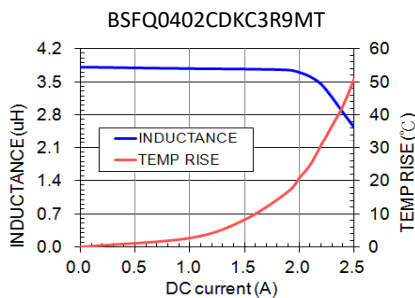
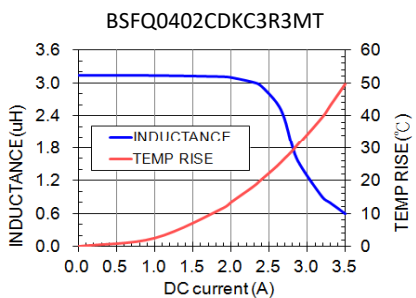
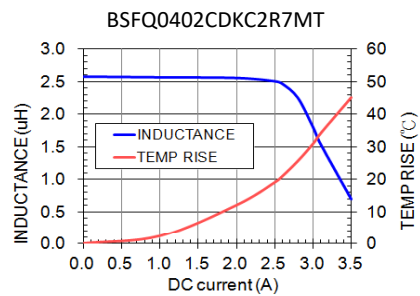
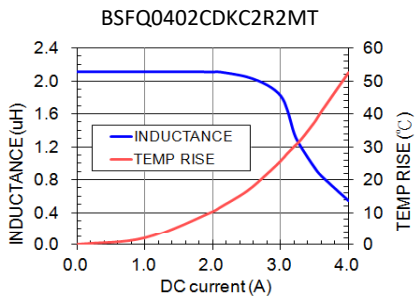
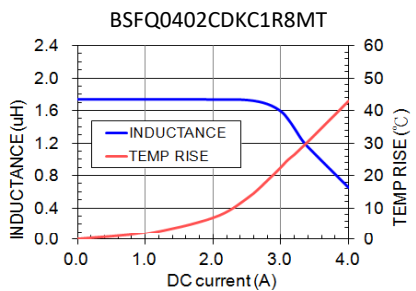
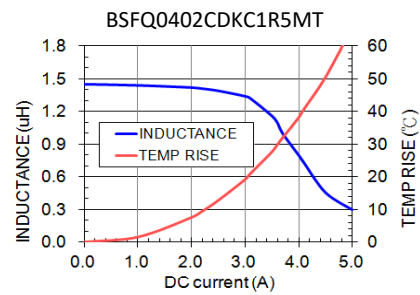
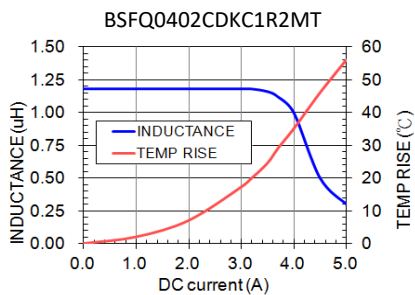
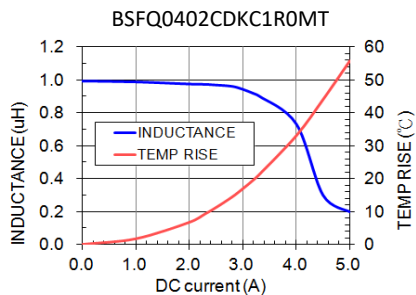
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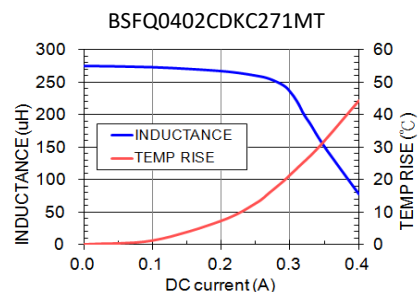
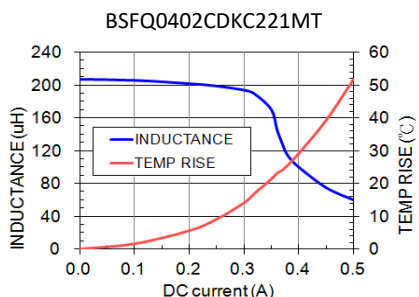
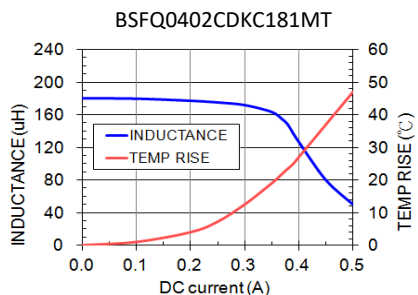
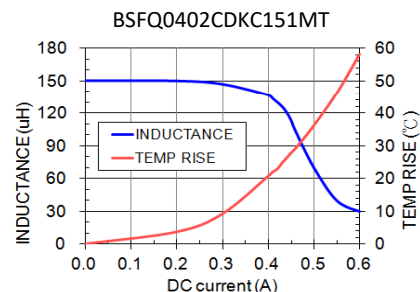
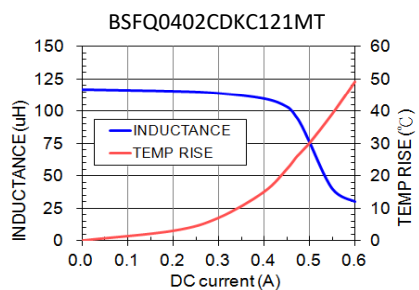
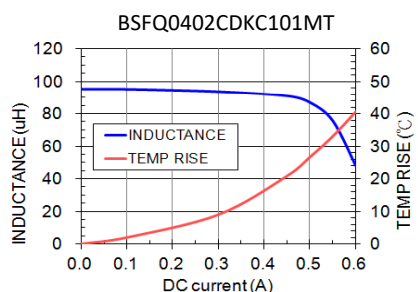
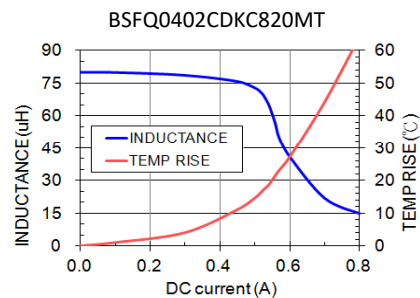
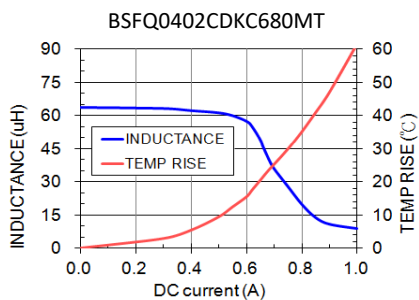
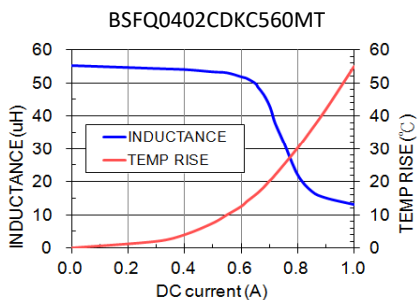
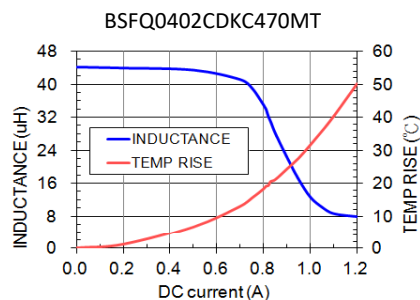
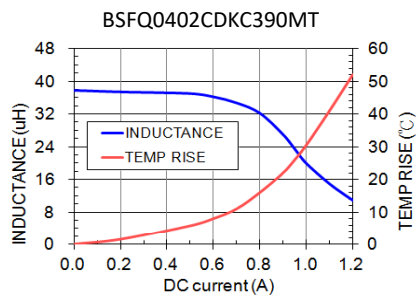
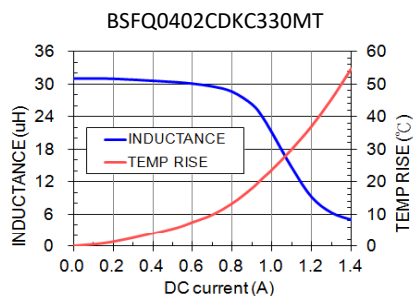
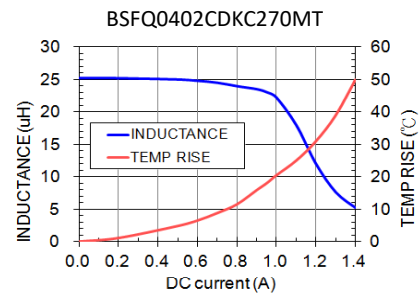
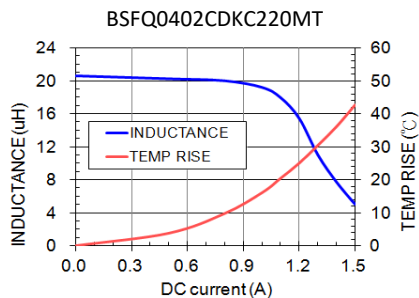
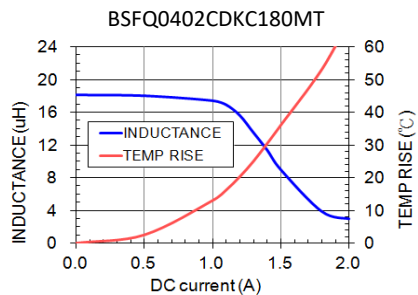


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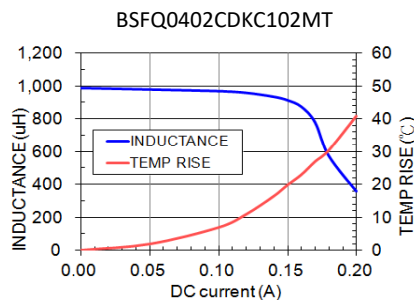
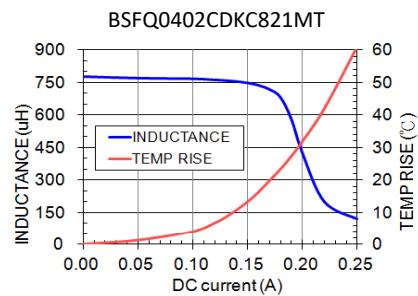
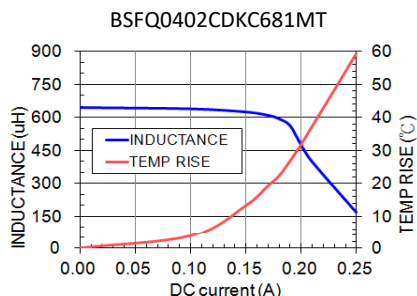
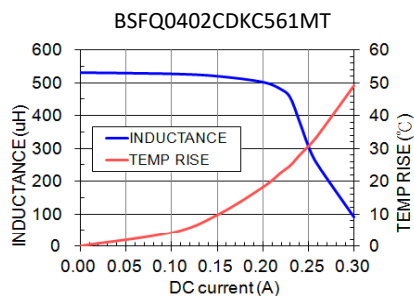
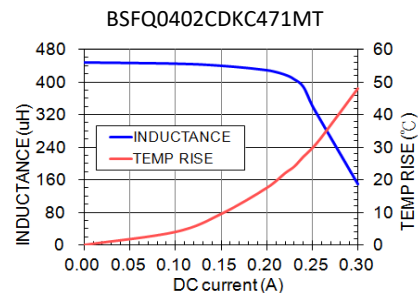
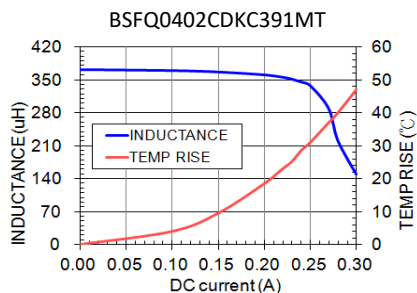
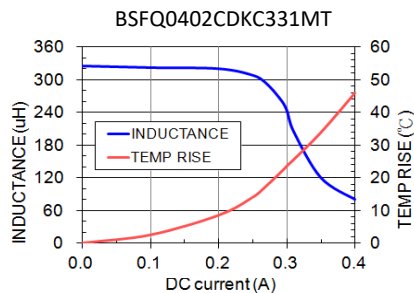


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