

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

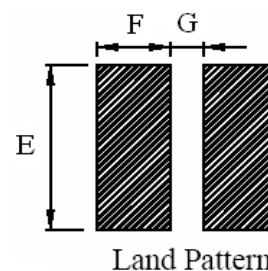
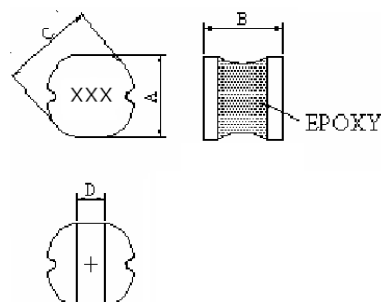
BSFQ0403CDKC 4R7 M T
(1) (2) (3)(4)

(1) PRODUCT TYPE CODE AND SIZE CODE

(2) INDUCTANCE

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

(4) REEL TAPING



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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ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μH)	DC Resistance (mΩ)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0403CDKC1R0MT	1.0	26	95	5.00	3.80
BSFQ0403CDKC1R5MT	1.5	36	60	4.50	3.20
BSFQ0403CDKC2R2MT	2.2	45	50	3.60	3.20
BSFQ0403CDKC3R3MT	3.3	60	40	2.90	2.80
BSFQ0403CDKC3R9MT	3.9	70	30	2.50	2.50
BSFQ0403CDKC4R7MT	4.7	80	30	2.40	2.50
BSFQ0403CDKC5R6MT	5.6	90	25	2.20	2.30
BSFQ0403CDKC6R8MT	6.8	110	20	2.00	2.10
BSFQ0403CDKC100MT	10.0	130	15	1.80	1.60
BSFQ0403CDKC120MT	12.0	180	15	1.65	1.50
BSFQ0403CDKC150MT	15.0	200	15	1.50	1.40
BSFQ0403CDKC180MT	18.0	250	13	1.30	1.40
BSFQ0403CDKC220MT	22.0	330	13	1.25	1.15
BSFQ0403CDKC270MT	27.0	370	10	1.10	1.10
BSFQ0403CDKC330MT	33.0	500	10	1.00	1.00
BSFQ0403CDKC390MT	39.0	550	10	0.90	0.95
BSFQ0403CDKC470MT	47.0	600	7	0.85	0.90
BSFQ0403CDKC560MT	56.0	820	7	0.75	0.70
BSFQ0403CDKC680MT	68.0	950	7	0.70	0.62
BSFQ0403CDKC101MT	100	1200	5	0.60	0.60
BSFQ0403CDKC121MT	120	1750	2.5	0.50	0.55
BSFQ0403CDKC151MT	150	1900	2.5	0.45	0.50
BSFQ0403CDKC181MT	180	2200	2.5	0.43	0.47
BSFQ0403CDKC221MT	220	2700	2.5	0.38	0.45
BSFQ0403CDKC271MT	270	3700	1	0.34	0.37
BSFQ0403CDKC331MT	330	4000	1	0.32	0.35
BSFQ0403CDKC391MT	390	5500	1	0.30	0.30
BSFQ0403CDKC471MT	470	6500	1	0.26	0.25
BSFQ0403CDKC561MT	560	7500	1	0.25	0.24
BSFQ0403CDKC821MT	820	11000	1	0.21	0.20
BSFQ0403CDKC102MT	1000	12000	1	0.20	0.20

Test Freq.:100KHz/1V

Tolerance: K±10%,M±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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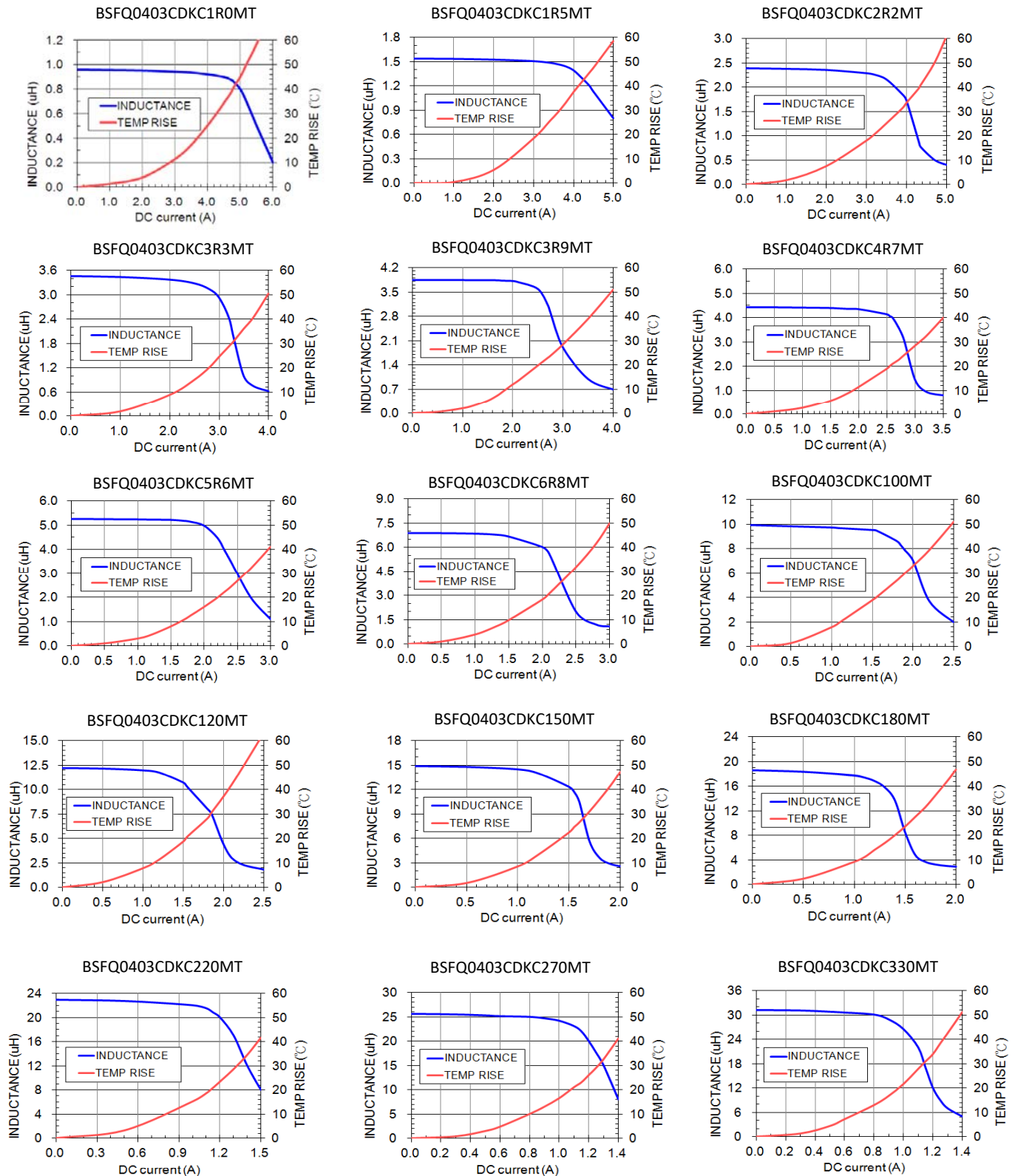


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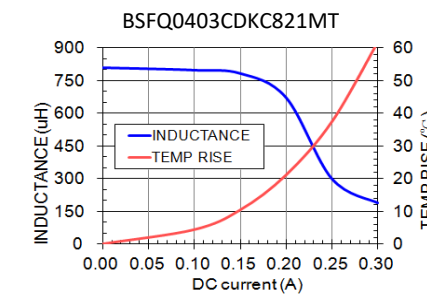
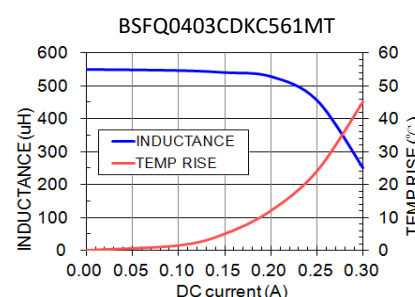
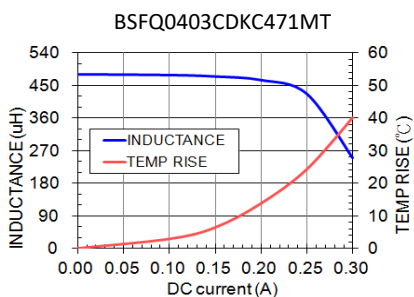
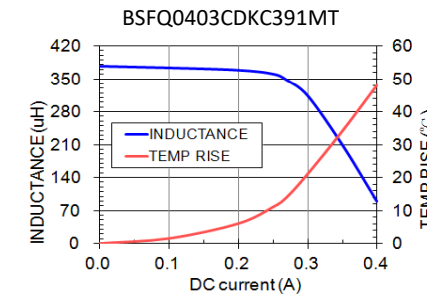
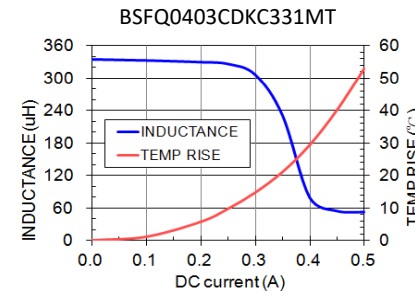
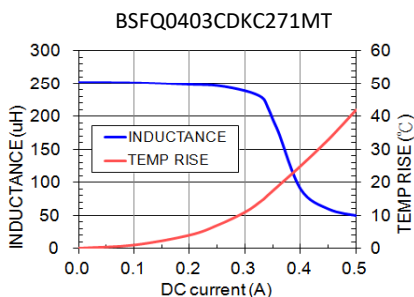
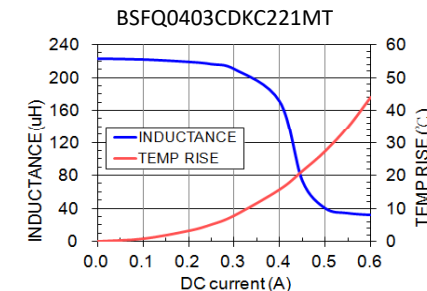
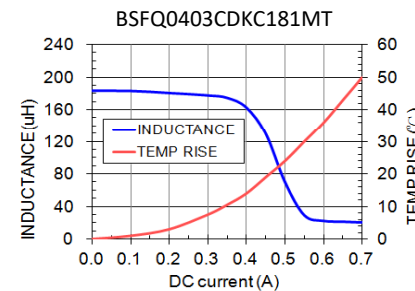
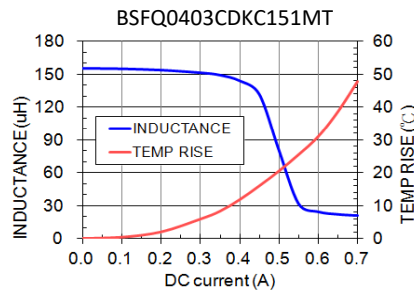
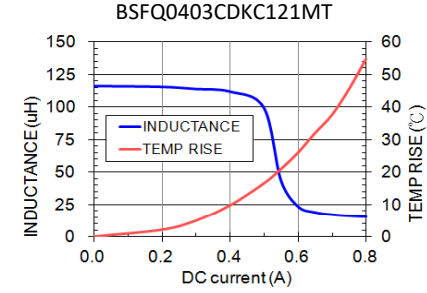
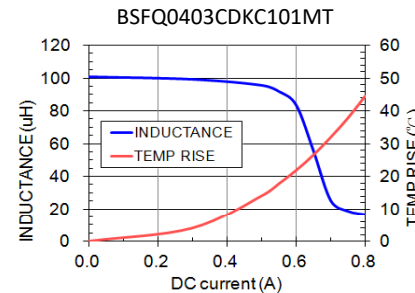
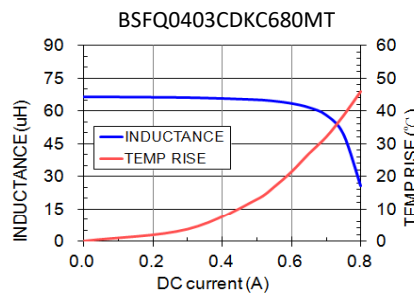
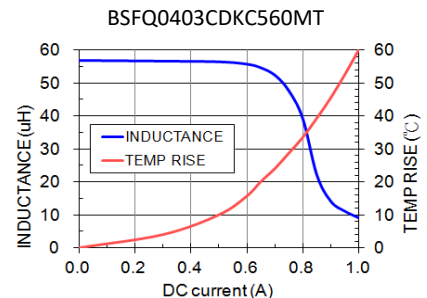
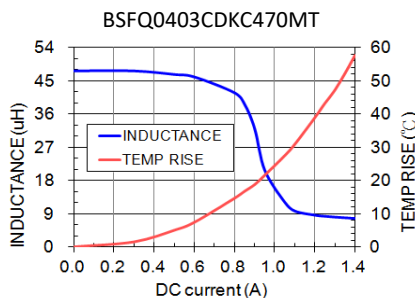
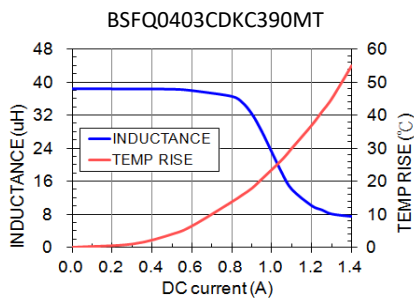


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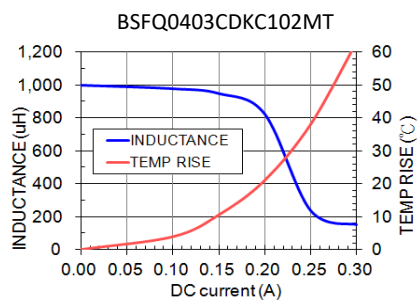


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