

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

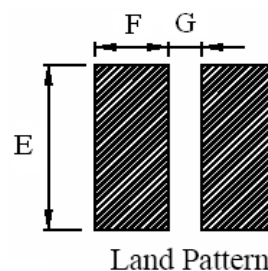
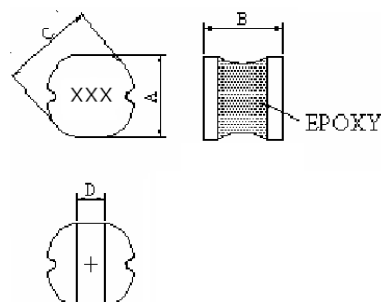
BSFQ0504CDKC 4R7 M T
(1) (2) (3)(4)

(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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SMD POWER INDUCTORS → BSFQ0504CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0504CDKC1R0MT	1.0	18	90	6.60	4.20
BSFQ0504CDKC1R2MT	1.2	20	60	6.30	4.20
BSFQ0504CDKC1R5MT	1.5	21	60	5.70	4.20
BSFQ0504CDKC1R8MT	1.8	23	40	5.60	4.10
BSFQ0504CDKC2R2MT	2.2	28	35	4.85	4.00
BSFQ0504CDKC2R7MT	2.7	30	30	4.70	3.80
BSFQ0504CDKC3R3MT	3.3	34	30	4.00	3.50
BSFQ0504CDKC3R9MT	3.9	36	25	3.90	3.50
BSFQ0504CDKC4R7MT	4.7	37	25	3.70	3.40
BSFQ0504CDKC5R6MT	5.6	53	25	3.20	2.80
BSFQ0504CDKC6R8MT	6.8	60	15	2.85	2.40
BSFQ0504CDKC8R2MT	8.2	70	15	2.35	2.30
BSFQ0504CDKC100MT	10	90	13	2.20	2.20
BSFQ0504CDKC120MT	12	100	10	2.15	2.10
BSFQ0504CDKC150MT	15	102	10	2.00	2.00
BSFQ0504CDKC180MT	18	130	10	1.70	1.80
BSFQ0504CDKC220MT	22	155	10	1.50	1.70
BSFQ0504CDKC270MT	27	190	7	1.50	1.60
BSFQ0504CDKC330MT	33	200	7	1.40	1.60
BSFQ0504CDKC390MT	39	250	7	1.40	1.40
BSFQ0504CDKC470MT	47	320	7	1.20	1.20
BSFQ0504CDKC560MT	56	370	5	1.05	1.10
BSFQ0504CDKC680MT	68	420	5	0.90	1.10
BSFQ0504CDKC820MT	82	470	5	0.85	1.00
BSFQ0504CDKC101MT	100	650	2.5	0.75	0.85
BSFQ0504CDKC121MT	120	700	2.5	0.65	0.75
BSFQ0504CDKC151MT	150	800	2.5	0.55	0.70
BSFQ0504CDKC181MT	180	1000	2.5	0.53	0.65
BSFQ0504CDKC221MT	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℃

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

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ELECTRICAL CHARACTERISTIC

Test Freq.:100KHz/1V

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

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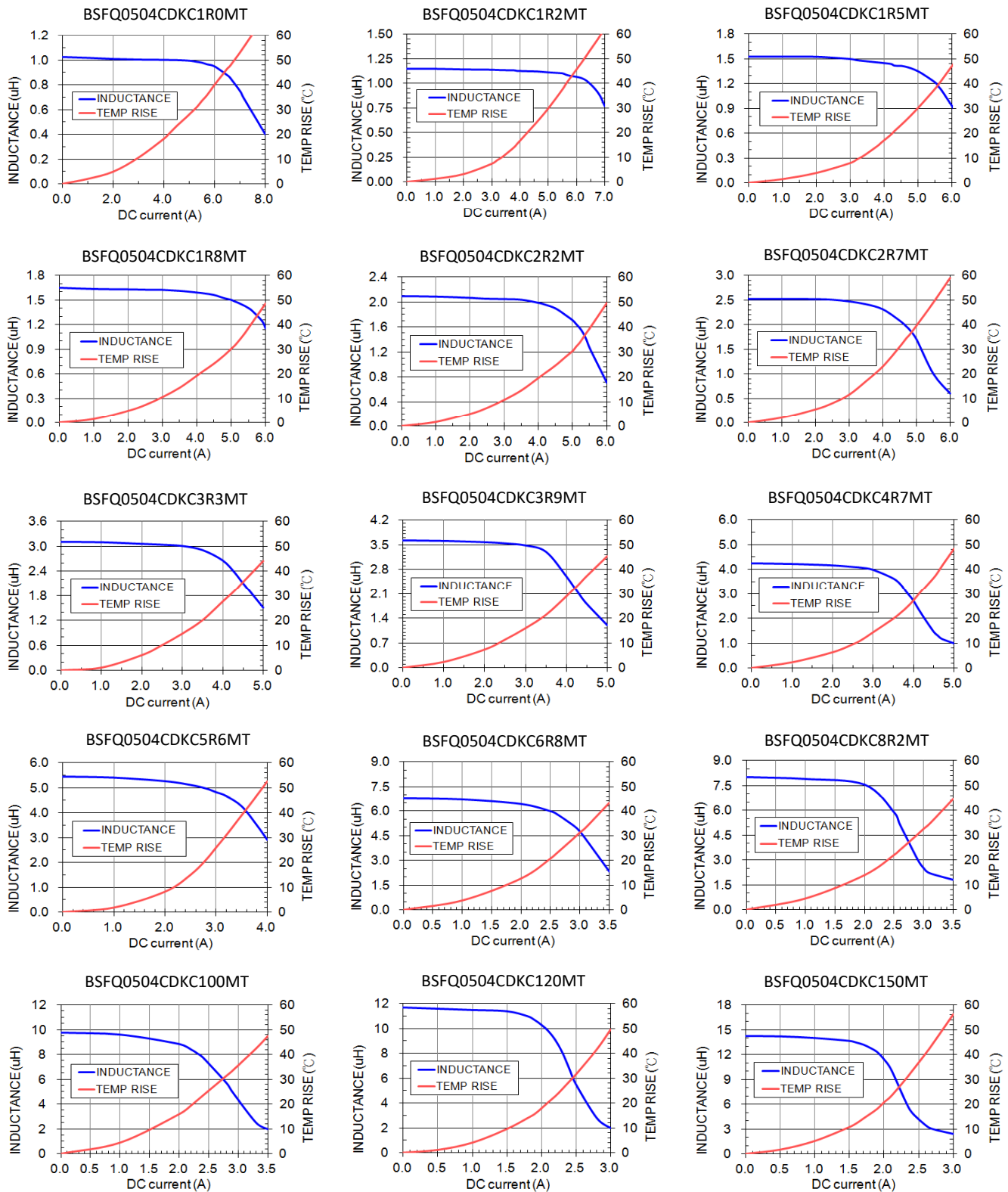
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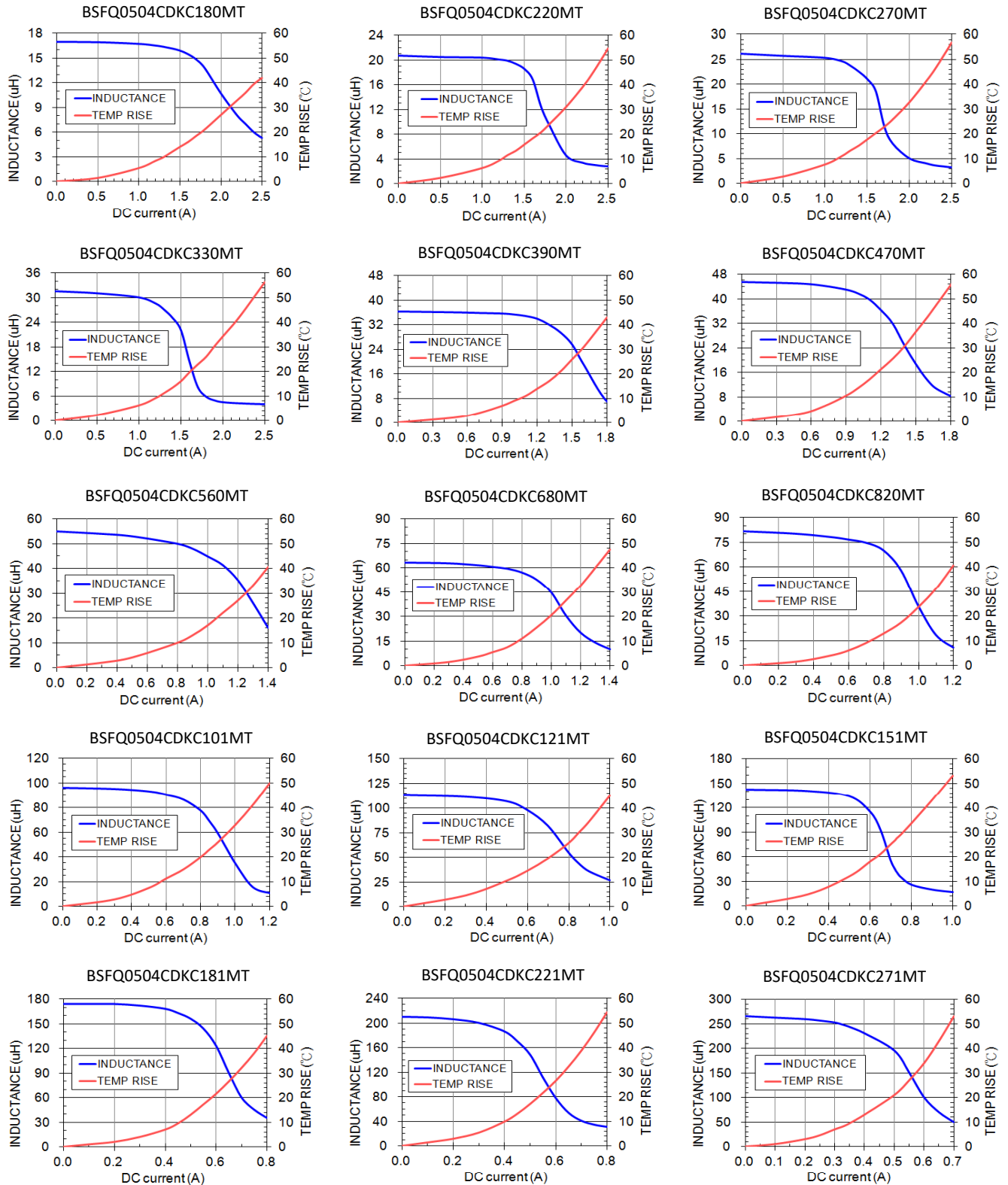


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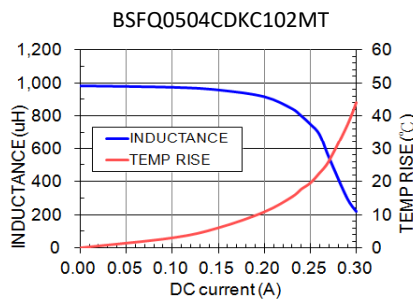
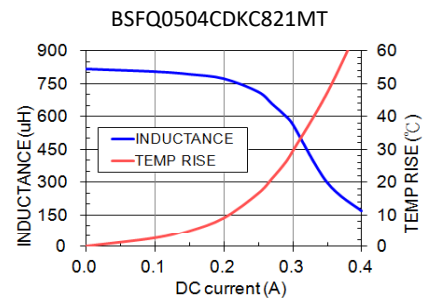
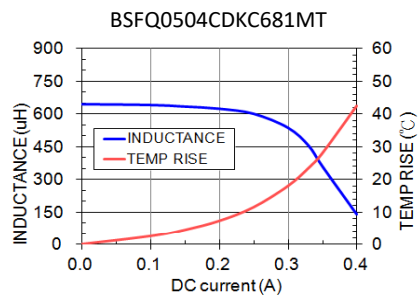
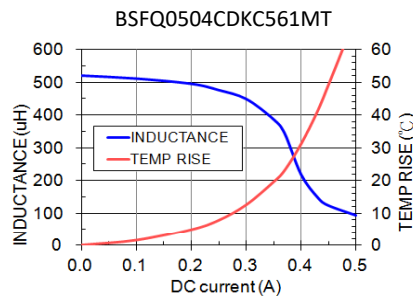
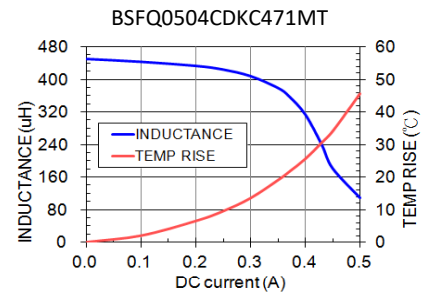
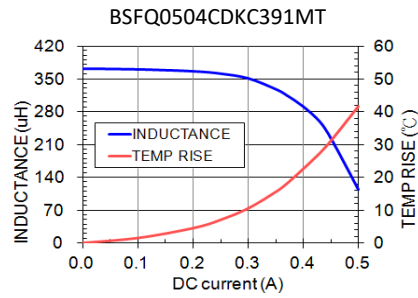
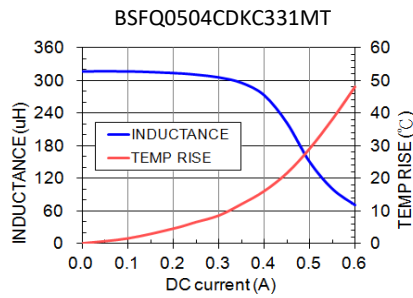


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