

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

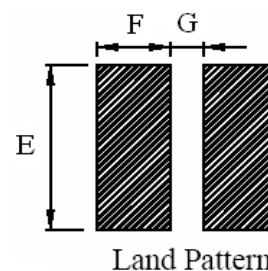
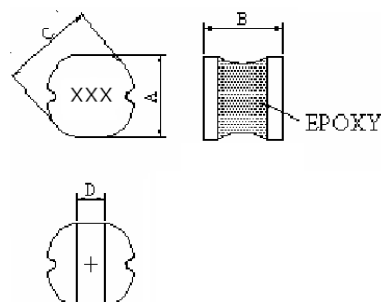
BSFQ0302CDKC 2R2 M T
(1) (2) (3)(4)

(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 → BSFQ0302CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0302CDKC1R0MT	1.0	40	85	2.90	2.50
BSFQ0302CDKC1R2MT	1.2	45	80	2.90	2.30
BSFQ0302CDKC1R5MT	1.5	50	75	2.40	2.10
BSFQ0302CDKC1R8MT	1.8	60	60	2.20	2.00
BSFQ0302CDKC2R2MT	2.2	70	55	2.10	1.90
BSFQ0302CDKC2R7MT	2.7	95	40	1.90	1.80
BSFQ0302CDKC3R3MT	3.3	110	40	1.90	1.80
BSFQ0302CDKC3R9MT	3.9	120	40	1.70	1.60
BSFQ0302CDKC4R7MT	4.7	125	35	1.60	1.55
BSFQ0302CDKC5R6MT	5.6	140	30	1.40	1.50
BSFQ0302CDKC6R8MT	6.8	160	25	1.35	1.50
BSFQ0302CDKC8R2MT	8.2	230	25	1.10	1.20
BSFQ0302CDKC100MT	10	300	20	1.10	1.15
BSFQ0302CDKC120MT	12	320	20	0.93	1.00
BSFQ0302CDKC150MT	15	400	15	0.85	0.90
BSFQ0302CDKC180MT	18	470	15	0.84	0.80
BSFQ0302CDKC220MT	22	630	15	0.71	0.67
BSFQ0302CDKC270MT	27	720	10	0.66	0.66
BSFQ0302CDKC330MT	33	880	10	0.60	0.65
BSFQ0302CDKC390MT	39	950	7	0.55	0.60
BSFQ0302CDKC470MT	47	1150	7	0.51	0.55
BSFQ0302CDKC560MT	56	1400	7	0.47	0.50
BSFQ0302CDKC680MT	68	1700	7	0.42	0.48
BSFQ0302CDKC820MT	82	2100	7	0.38	0.39
BSFQ0302CDKC101MT	100	2400	7	0.36	0.37
BSFQ0302CDKC121MT	120	3400	5	0.33	0.32
BSFQ0302CDKC151MT	150	3800	2.5	0.29	0.27
BSFQ0302CDKC181MT	180	4500	2.5	0.28	0.26
BSFQ0302CDKC221MT	220	5000	2.5	0.25	0.23
BSFQ0302CDKC271MT	270	8000	2.5	0.23	0.22
BSFQ0302CDKC331MT	330	9000	2.5	0.19	0.21
BSFQ0302CDKC391MT	390	10000	1.0	0.18	0.18

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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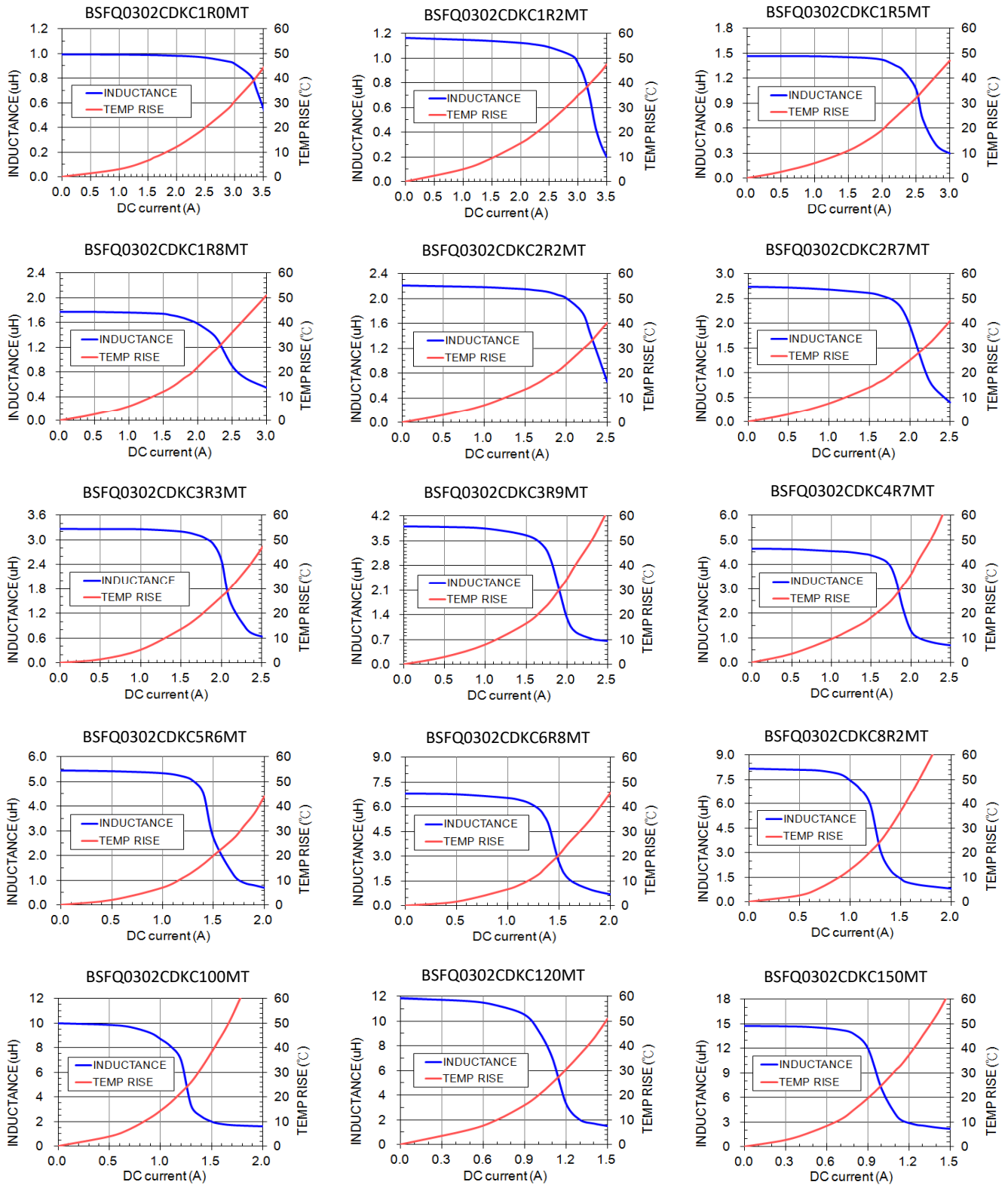


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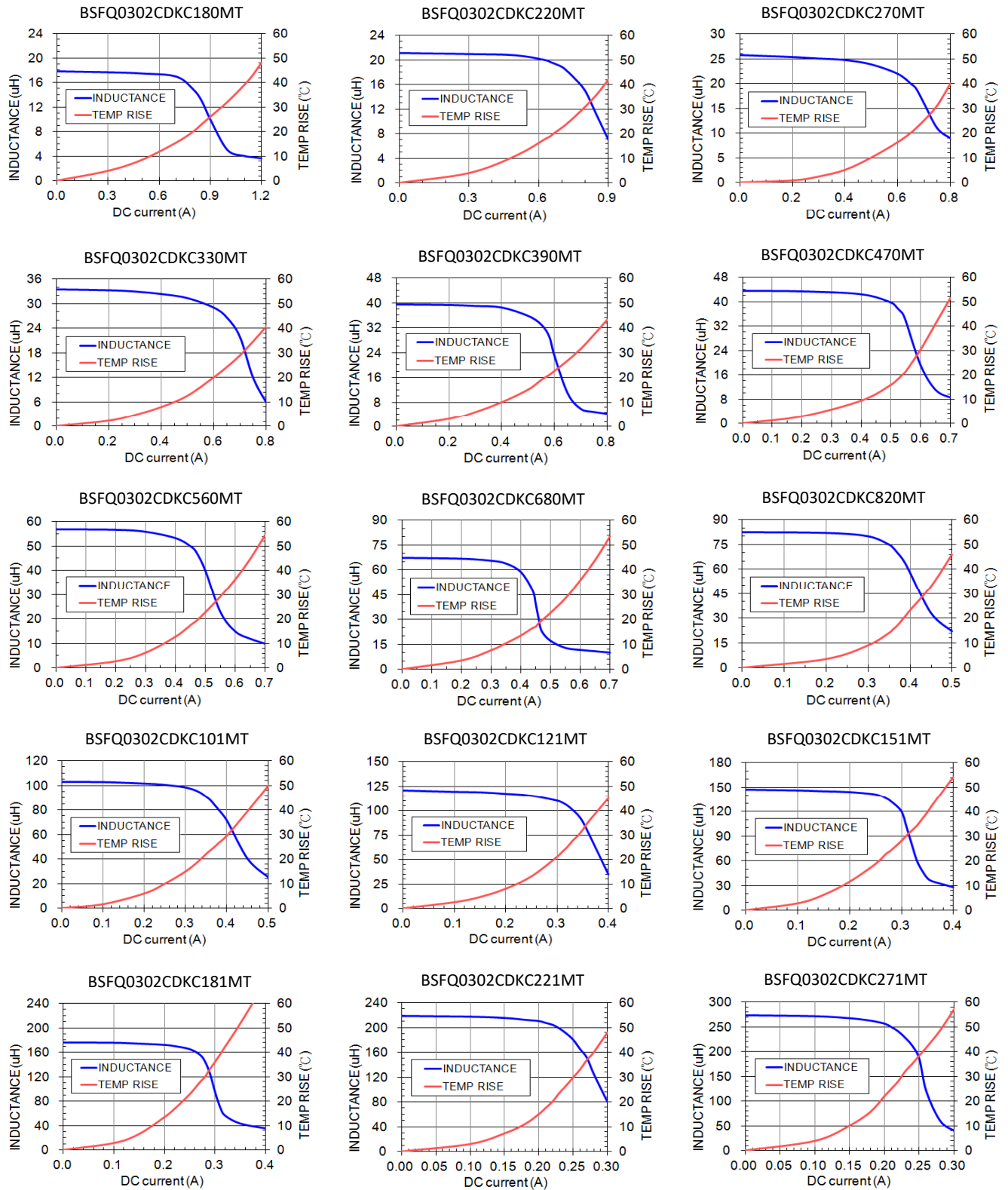


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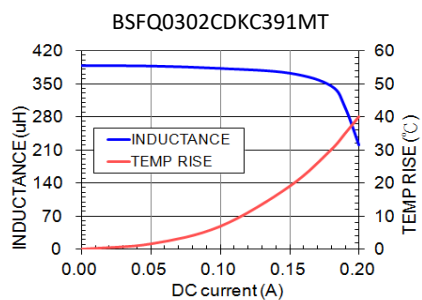
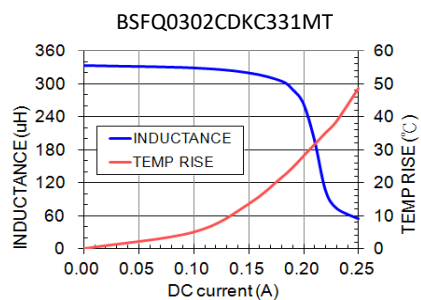


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