

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

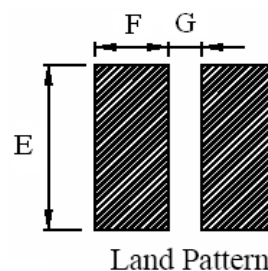
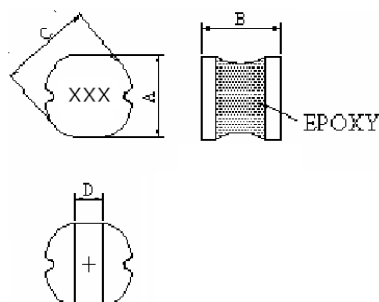
BSFQ1005CDKC 1R5 M T
(1) (2) (3)(4)

(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 (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ1005CDKC1R0MT	1.0	11	80	11.00	6.50
BSFQ1005CDKC1R5MT	1.5	15	60	8.75	6.20
BSFQ1005CDKC2R2MT	2.2	17	45	8.00	5.50
BSFQ1005CDKC3R3MT	3.3	21	30	6.50	5.20
BSFQ1005CDKC4R7MT	4.7	24	20	5.40	5.10
BSFQ1005CDKC5R6MT	5.6	26	13	5.00	5.00
BSFQ1005CDKC6R8MT	6.8	32	13	5.00	5.00
BSFQ1005CDKC100MT	10	40	13	4.35	4.80
BSFQ1005CDKC150MT	15	50	10	3.50	4.20
BSFQ1005CDKC220MT	22	65	7	3.05	3.40
BSFQ1005CDKC330MT	33	80	7	2.45	3.20
BSFQ1005CDKC470MT	47	120	5	2.00	2.20
BSFQ1005CDKC680MT	68	150	2.5	1.65	2.10
BSFQ1005CDKC820MT	82	195	2.5	1.50	2.00
BSFQ1005CDKC101MT	100	210	2.5	1.40	1.80
BSFQ1005CDKC181MT	180	390	1	1.10	1.40
BSFQ1005CDKC221MT	220	430	1	0.95	1.30
BSFQ1005CDKC271MT	270	720	1	0.90	1.10
BSFQ1005CDKC331MT	330	830	1	0.85	1.00
BSFQ1005CDKC391MT	390	940	1	0.80	0.95
BSFQ1005CDKC471MT	470	1050	1	0.75	0.90
BSFQ1005CDKC561MT	560	1550	0.7	0.65	0.75
BSFQ1005CDKC681MT	680	1750	0.7	0.60	0.70
BSFQ1005CDKC821MT	820	2000	0.7	0.55	0.65
BSFQ1005CDKC102MT	1000	2400	0.7	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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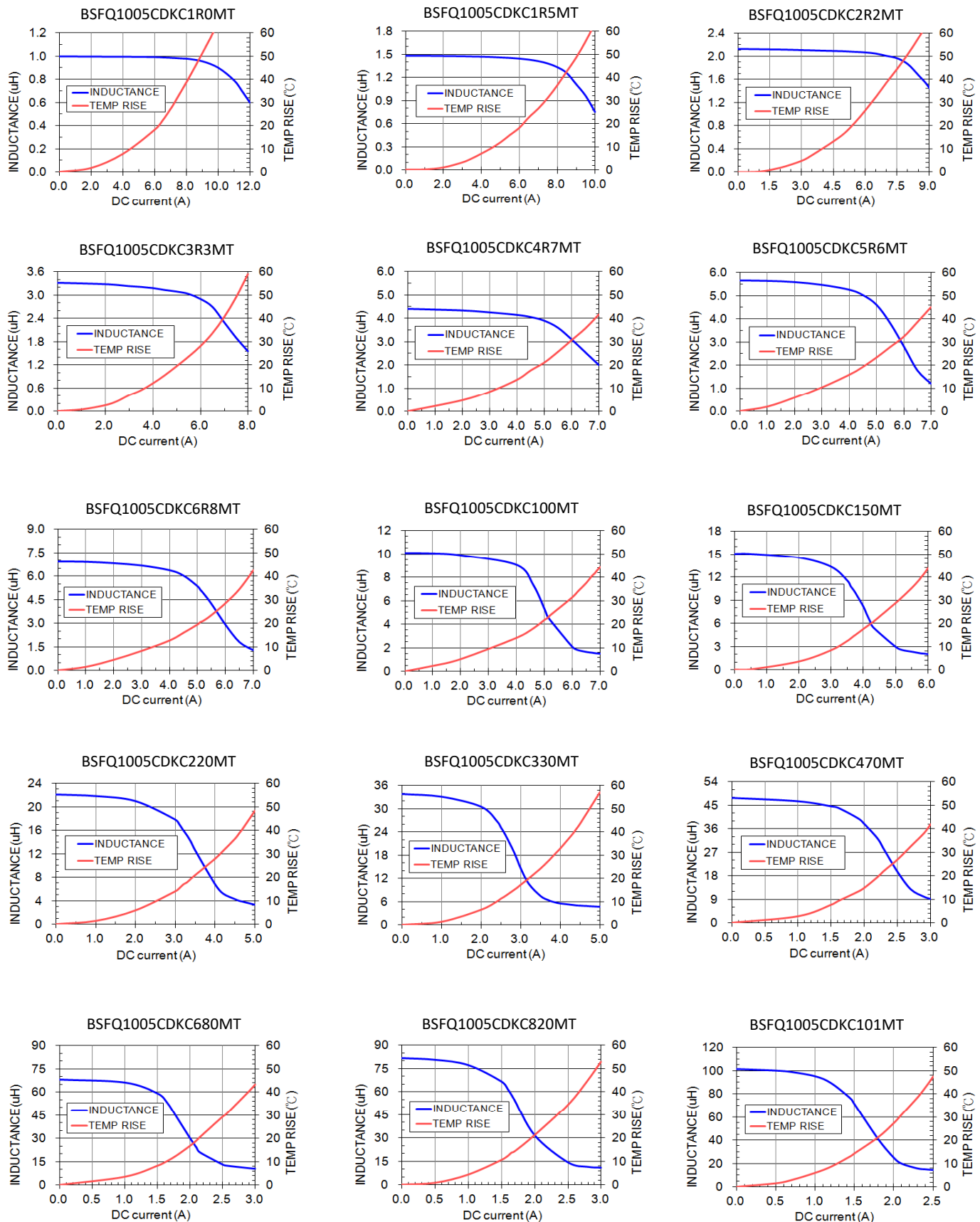


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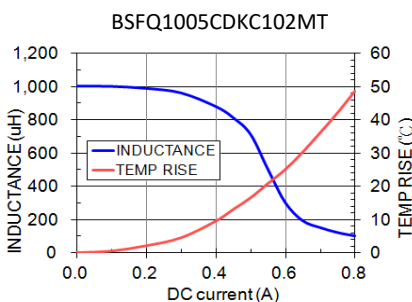
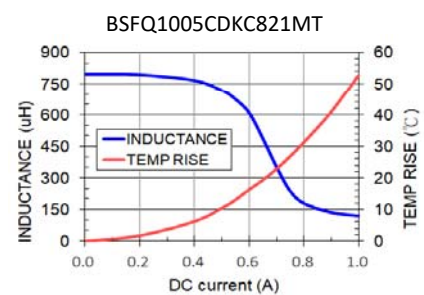
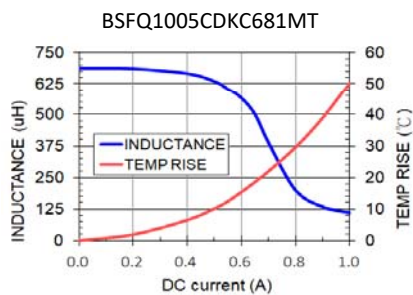
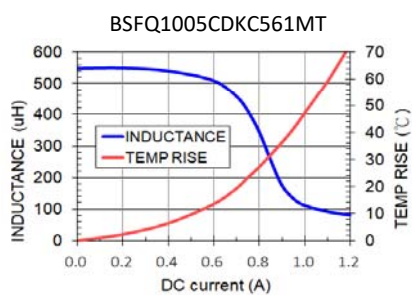
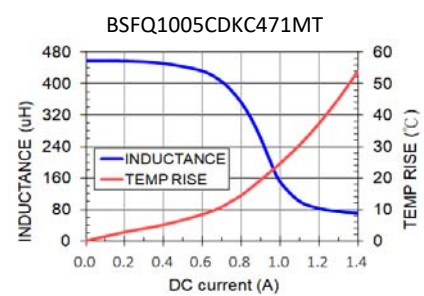
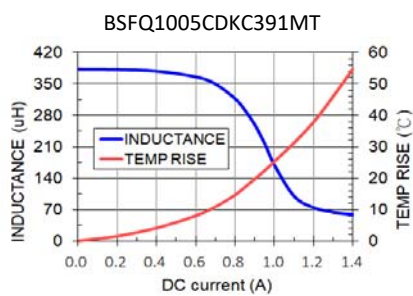
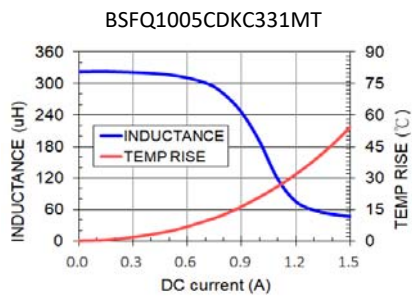
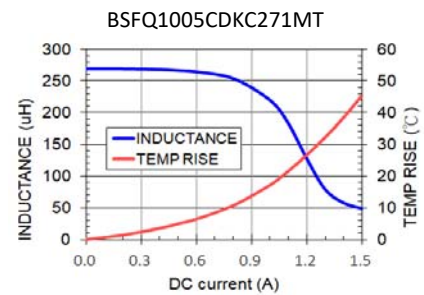
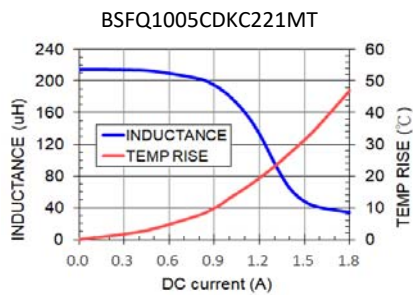
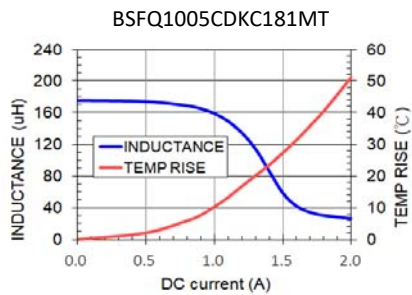


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