

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

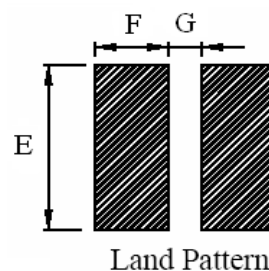
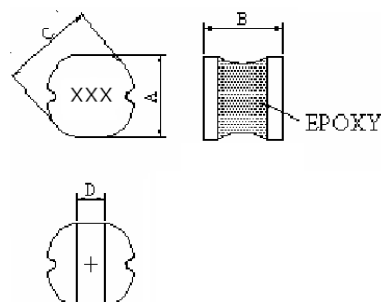
BSFQ0705CDKC 6R8 M T
(1) (2) (3)(4)

(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
BSFQ0705CDKC1R0MT	1.0	25	80	6.70	4.50
BSFQ0705CDKC1R5MT	1.5	30	65	6.40	4.40
BSFQ0705CDKC2R2MT	2.2	35	50	5.20	4.00
BSFQ0705CDKC2R7MT	2.7	38	35	5.15	3.90
BSFQ0705CDKC3R3MT	3.3	40	30	5.15	3.80
BSFQ0705CDKC4R7MT	4.7	45	20	4.10	3.60
BSFQ0705CDKC5R6MT	5.6	50	15	3.50	3.50
BSFQ0705CDKC6R8MT	6.8	60	15	3.40	3.40
BSFQ0705CDKC8R2MT	8.2	63	13	3.30	3.40
BSFQ0705CDKC100MT	10	65	10	2.70	3.40
BSFQ0705CDKC120MT	12	75	10	2.60	2.50
BSFQ0705CDKC150MT	15	80	7	2.50	2.30
BSFQ0705CDKC180MT	18	90	7	2.20	2.20
BSFQ0705CDKC220MT	22	100	7	2.15	2.15
BSFQ0705CDKC270MT	27	115	7	1.90	2.00
BSFQ0705CDKC330MT	33	125	7	1.80	1.90
BSFQ0705CDKC390MT	39	150	7	1.60	1.90
BSFQ0705CDKC470MT	47	160	5	1.60	1.90
BSFQ0705CDKC560MT	56	180	5	1.50	1.70
BSFQ0705CDKC680MT	68	260	2.5	1.20	1.40
BSFQ0705CDKC820MT	82	300	2.5	1.05	1.30
BSFQ0705CDKC101MT	100	350	2.5	1.00	1.30
BSFQ0705CDKC121MT	120	440	2.5	0.91	1.10
BSFQ0705CDKC151MT	150	500	2.5	0.75	1.10
BSFQ0705CDKC181MT	180	600	2.5	0.72	0.95
BSFQ0705CDKC221MT	220	750	1	0.62	0.90
BSFQ0705CDKC271MT	270	800	1	0.57	0.85
BSFQ0705CDKC331MT	330	1100	1	0.50	0.80
BSFQ0705CDKC391MT	390	1400	1	0.45	0.65
BSFQ0705CDKC471MT	470	1500	1	0.40	0.62
BSFQ0705CDKC561MT	560	1700	0.7	0.38	0.55
BSFQ0705CDKC681MT	680	2100	0.7	0.37	0.54
BSFQ0705CDKC821MT	820	2500	0.7	0.34	0.48
BSFQ0705CDKC102MT	1000	3000	0.7	0.30	0.46

Tolerance: K±10%,M±20% (Test Freq.:100KHz/1V)

※Isat:Based on Inductance decrease 30%

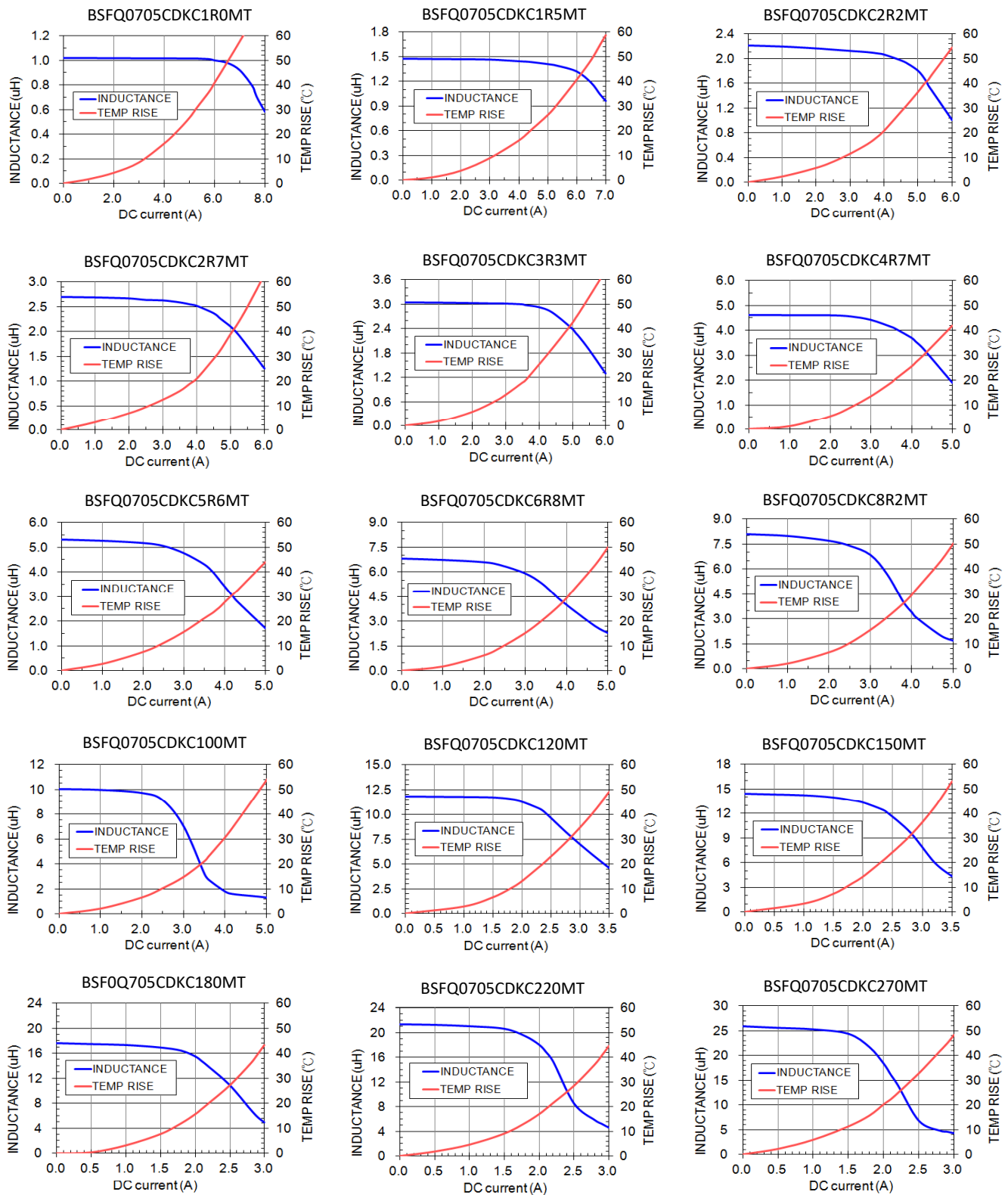
※IDC:Based on Temperature increase 40℃

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

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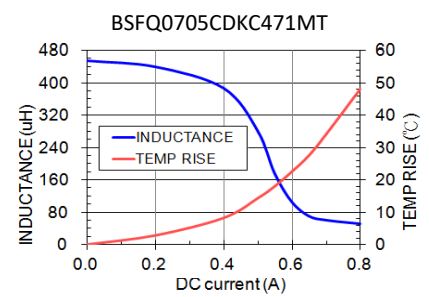
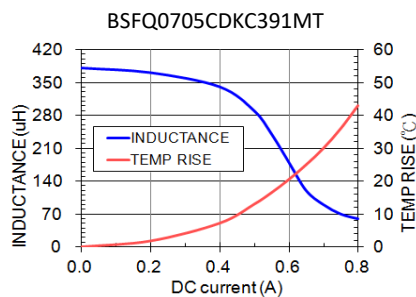
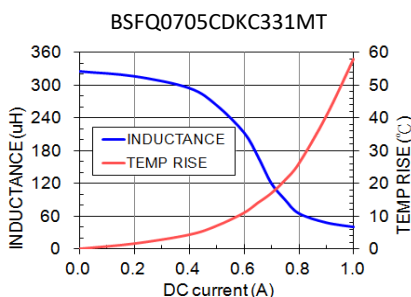
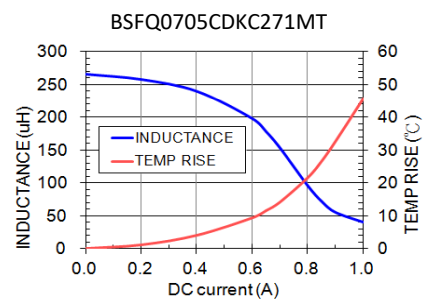
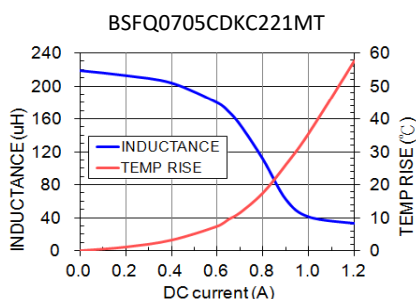
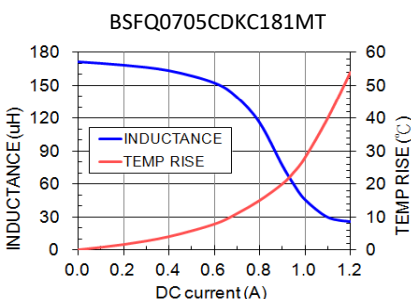
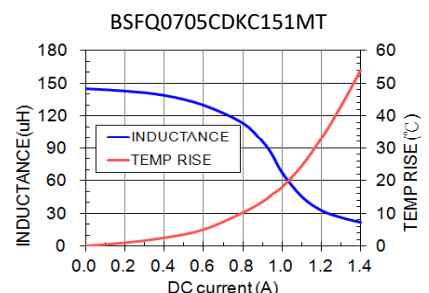
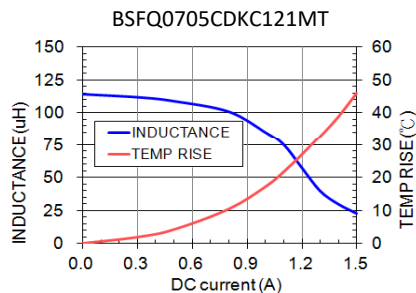
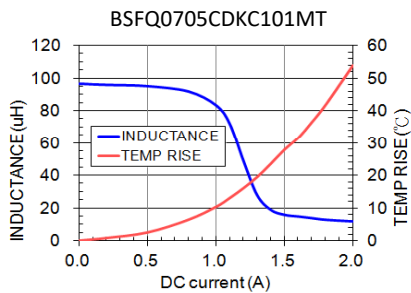
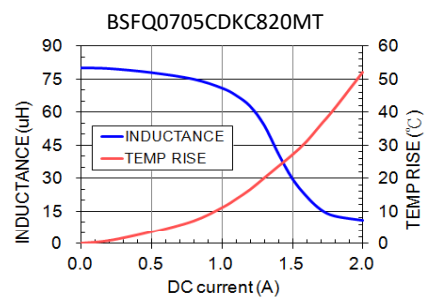
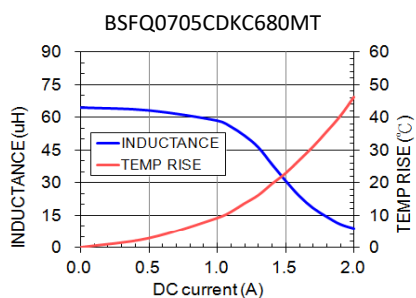
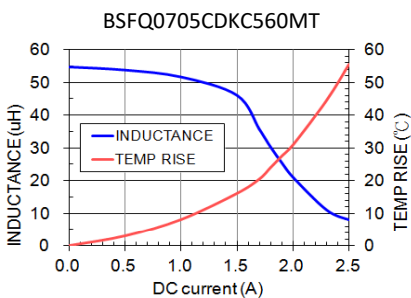
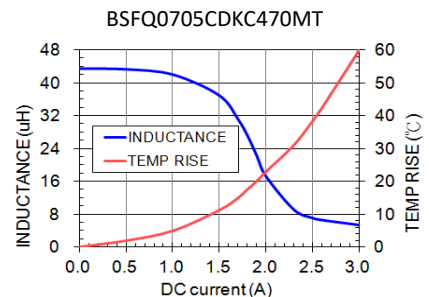
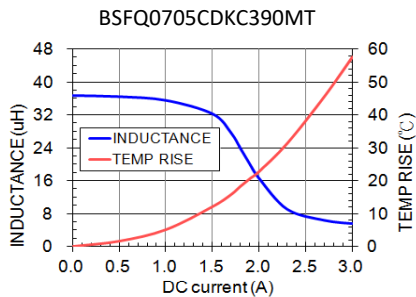
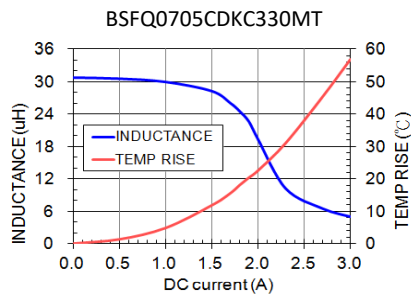


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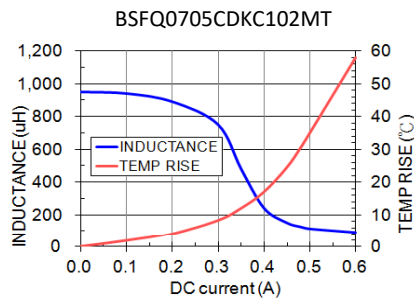
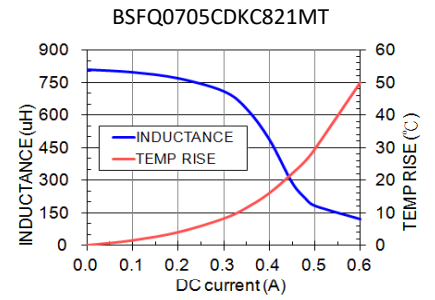
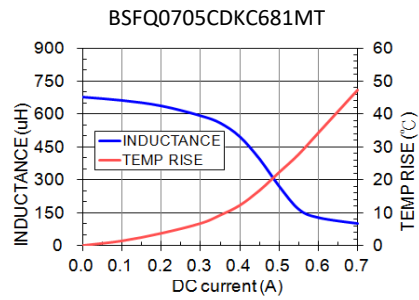
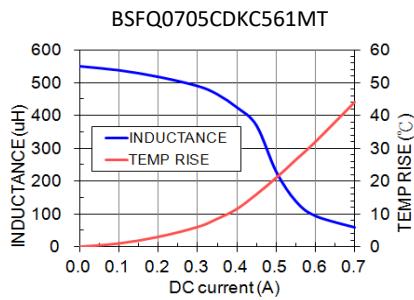


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