

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

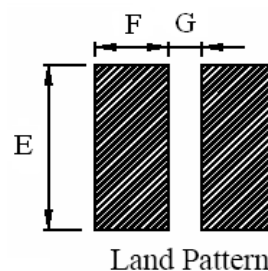
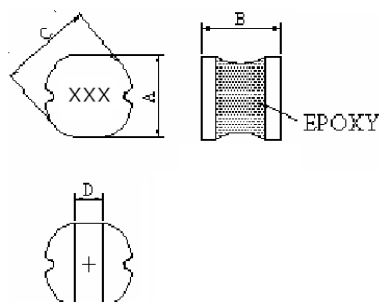
BSFQ0502CDKC 4R7 M T
(1) (2) (3)(4)

(1) PRODUCT TYPE CODE AND SIZE CODE

(2) INDUCTANCE

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

(4) REEL TAPING



Land Pattern

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 → BSFQ0502CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0502CDKC1R0MT	1.0	25	70	4.90	4.20
BSFQ0502CDKC1R2MT	1.2	28	65	4.10	4.10
BSFQ0502CDKC1R5MT	1.5	30	55	4.05	4.00
BSFQ0502CDKC1R8MT	1.8	35	50	4.00	3.95
BSFQ0502CDKC2R2MT	2.2	40	45	3.35	3.90
BSFQ0502CDKC2R7MT	2.7	45	45	3.20	3.85
BSFQ0502CDKC3R3MT	3.3	50	40	3.00	3.80
BSFQ0502CDKC3R9MT	3.9	60	35	2.75	3.30
BSFQ0502CDKC4R7MT	4.7	80	30	2.45	3.10
BSFQ0502CDKC5R6MT	5.6	85	25	2.30	3.00
BSFQ0502CDKC6R8MT	6.8	90	25	2.10	3.00
BSFQ0502CDKC8R2MT	8.2	105	20	1.80	2.70
BSFQ0502CDKC100MT	10	140	20	1.75	2.30
BSFQ0502CDKC120MT	12	150	15	1.50	2.00
BSFQ0502CDKC150MT	15	160	15	1.40	1.90
BSFQ0502CDKC180MT	18	220	13	1.30	1.50
BSFQ0502CDKC220MT	22	250	13	1.25	1.40
BSFQ0502CDKC270MT	27	280	10	1.00	1.35
BSFQ0502CDKC330MT	33	330	7	0.965	1.35
BSFQ0502CDKC390MT	39	430	7	0.90	1.20
BSFQ0502CDKC470MT	47	500	7	0.76	1.10
BSFQ0502CDKC560MT	56	600	7	0.75	1.00
BSFQ0502CDKC680MT	68	700	7	0.74	0.95
BSFQ0502CDKC820MT	82	850	5	0.63	0.80
BSFQ0502CDKC101MT	100	1150	5	0.55	0.75
BSFQ0502CDKC121MT	120	1400	5	0.54	0.66
BSFQ0502CDKC151MT	150	1500	2.5	0.46	0.60
BSFQ0502CDKC181MT	180	1700	2.5	0.45	0.58
BSFQ0502CDKC221MT	220	2500	2.5	0.39	0.56
BSFQ0502CDKC271MT	270	3000	2.5	0.35	0.45
BSFQ0502CDKC331MT	330	3500	2.5	0.33	0.39
BSFQ0502CDKC391MT	390	4500	1	0.29	0.36

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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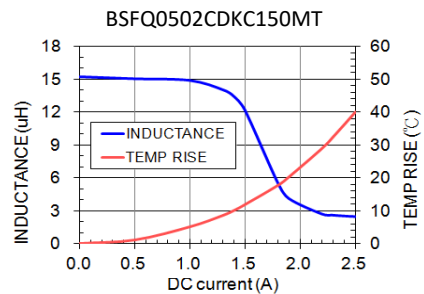
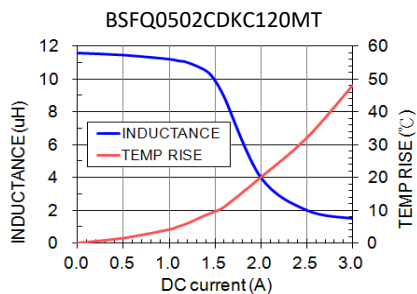
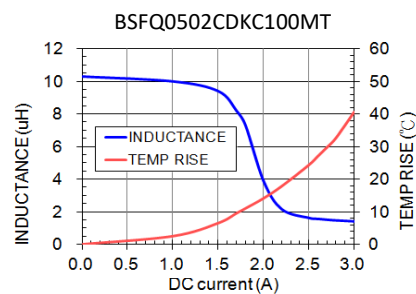
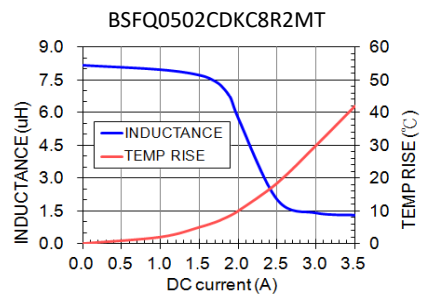
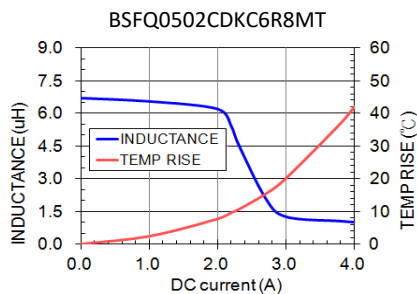
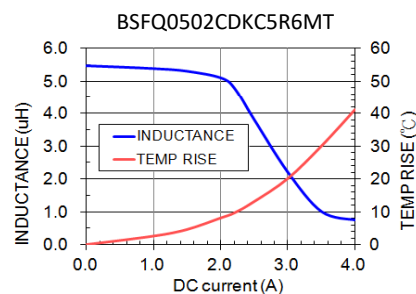
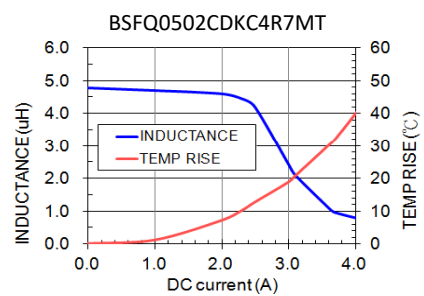
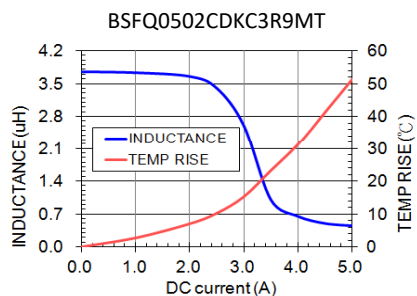
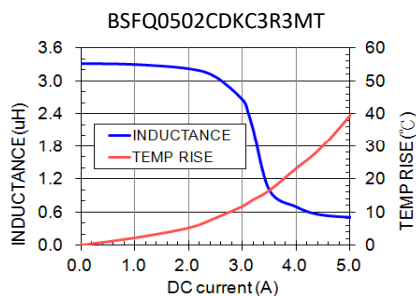
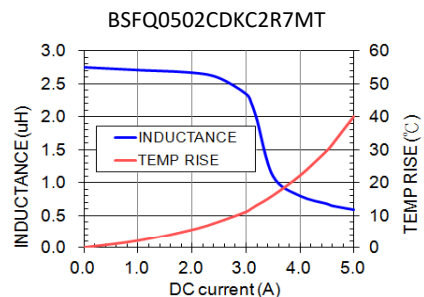
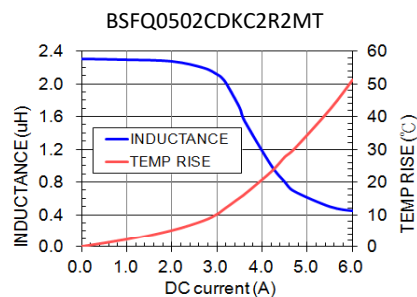
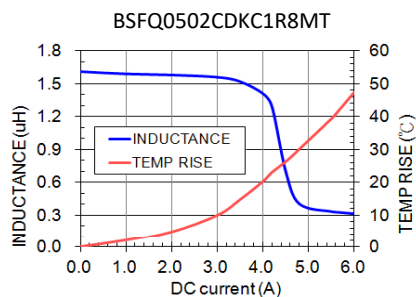
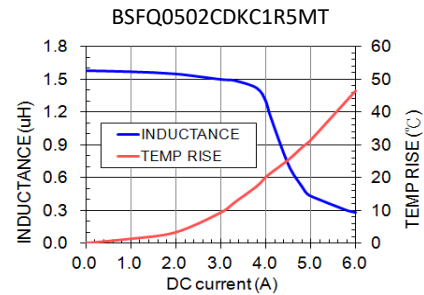
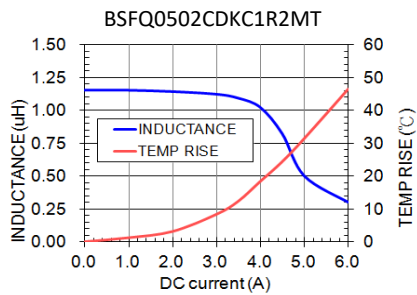
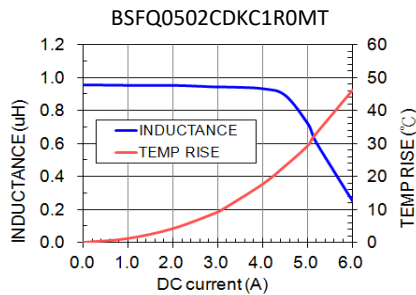
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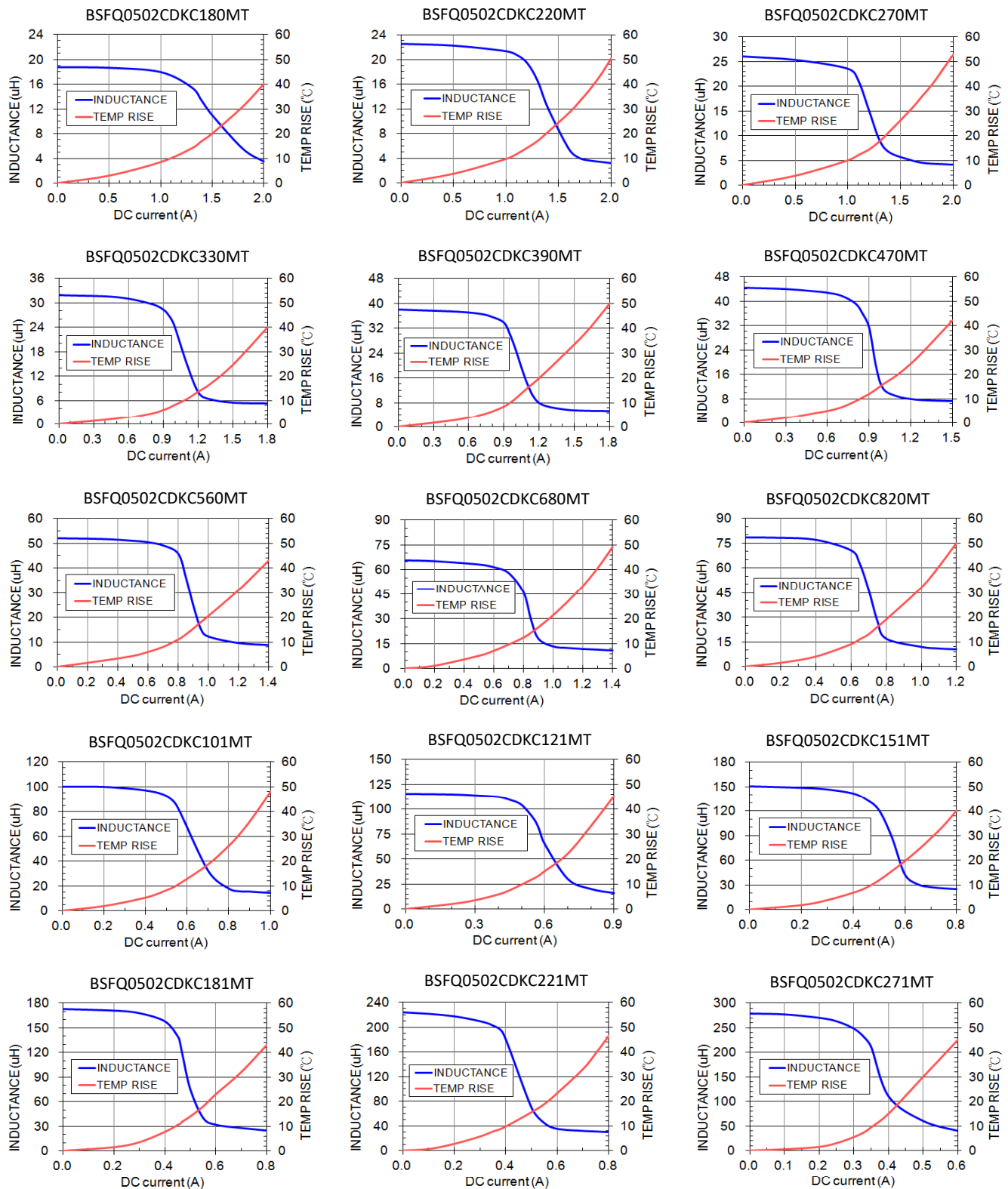


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