

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

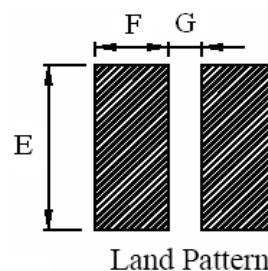
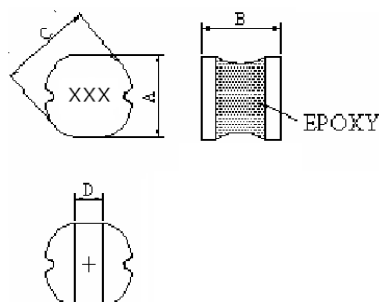
BSFQ0703CDKC 4R7 M T
(1) (2) (3)(4)

(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 → BSFQ0703CDKC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF (MHz)min	Isat (A)max	IDC (A)max
BSFQ0703CDKC1R0MT	1.0	13	75	7.00	6.00
BSFQ0703CDKC1R5MT	1.5	16	60	5.60	5.50
BSFQ0703CDKC2R2MT	2.2	20	45	4.60	5.00
BSFQ0703CDKC3R3MT	3.3	25	40	4.10	4.10
BSFQ0703CDKC4R7MT	4.7	35	30	3.90	3.90
BSFQ0703CDKC6R8MT	6.8	50	20	3.00	3.10
BSFQ0703CDKC100MT	10	60	15	2.50	3.00
BSFQ0703CDKC150MT	15	90	13	2.00	2.80
BSFQ0703CDKC220MT	22	130	10	1.70	2.00
BSFQ0703CDKC330MT	33	150	10	1.30	1.90
BSFQ0703CDKC470MT	47	250	7	1.20	1.45
BSFQ0703CDKC680MT	68	320	7	1.00	1.20
BSFQ0703CDKC820MT	82	360	5	0.95	1.20

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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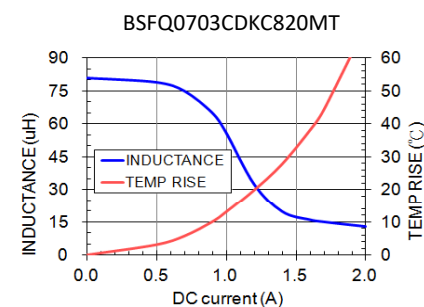
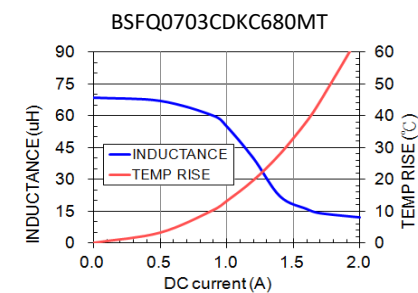
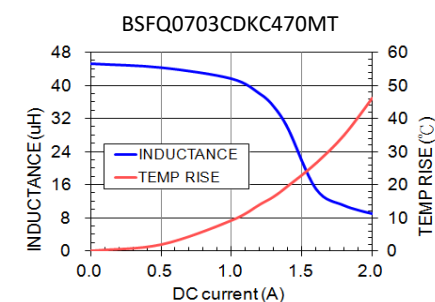
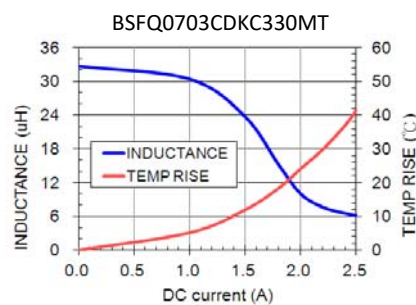
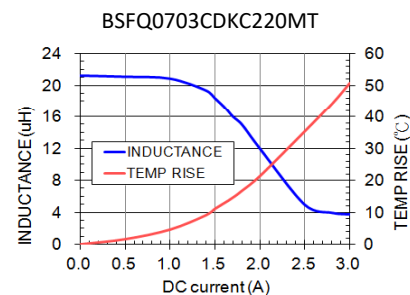
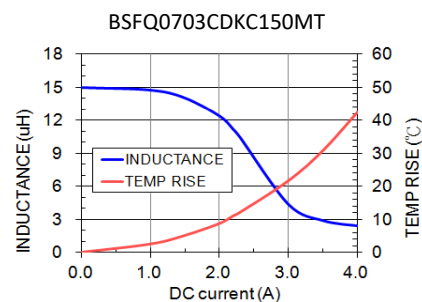
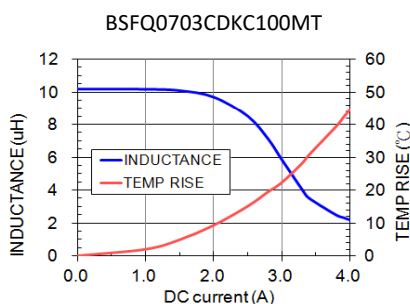
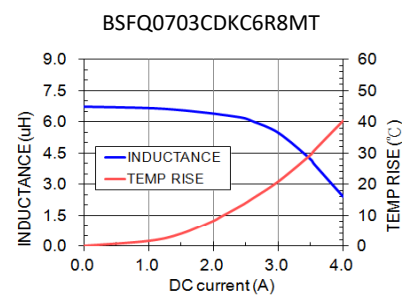
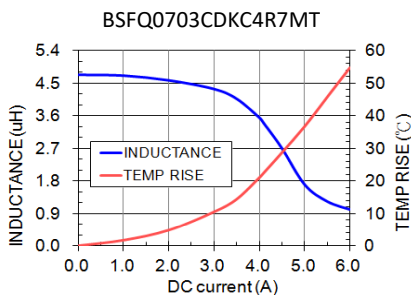
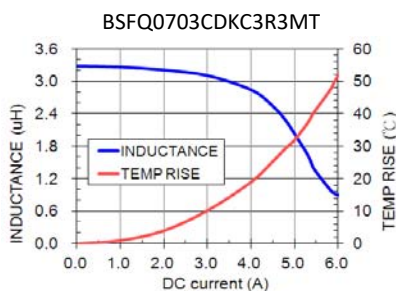
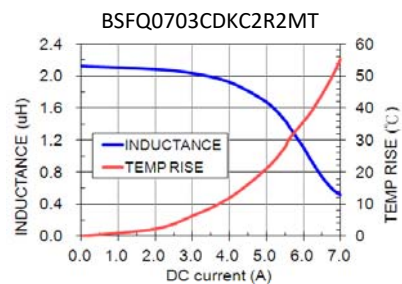
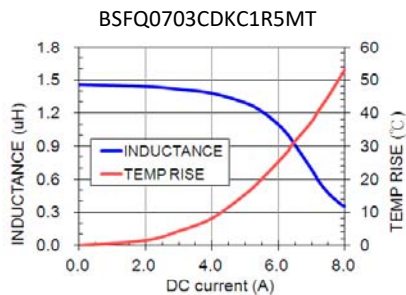
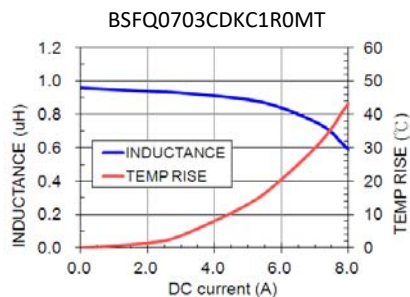


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