

SPECIFICATION OF BSF-□NR□ SERIES

FEATURES

1. Low profile construction and miniature size.
2. High magnetic shield construction and acted high performance for EMC/EMI protection.
3. Low coil resistance with large current.
4. 100% lead (Pb) free meet RoHS standard.



APPLICATIONS

1. D/D converter unit design for mobile product, VRM for server.
2. DVD、HDD、STB、LCD display、IP CAM、GPS、USB connector、Smart phones、Face Recognition System、IoT application...etc.



ORDERING CODE

BSF2010BNR□ 2R2 M T
 (1) (2) (3) (4)

- (1) PRODUCT TYPE CODE AND SIZE CODE
- (2) INDUCTANCE
- (3) INDUCTANCE TOLERANCE (M : ±20%, N : ±30%)
- (4) REEL TAPING

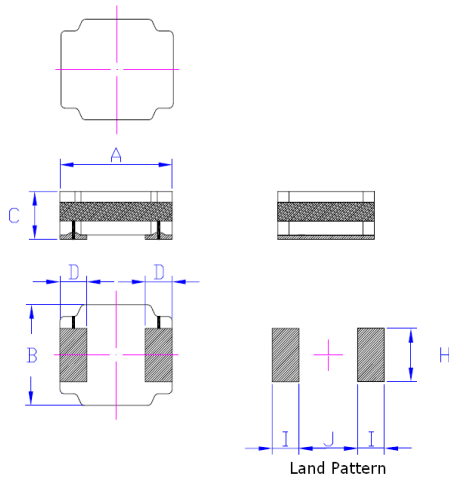


FIG 1

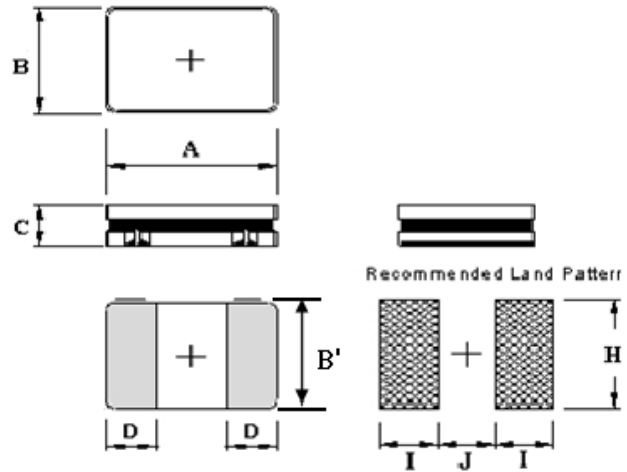


FIG 2

SHAPE & DIMENSIONS

UNIT:mm

SIZE CODE	A	B	B'	C	D	H	I	J	FIG
BSF2010BNR□	2.00±0.20	1.60±0.20	-	1.05max	0.60±0.20	1.10	1.00	0.90	1
BSF2510SNR□	2.50±0.25	2.10±0.20	2.25±0.20	1.00 max.	0.85±0.20	2.30	0.95	0.90	2
BSF2512SNR□	2.50±0.25	2.10±0.20	2.25±0.20	1.20 max.	0.85±0.20	2.30	0.95	0.90	2

※All the data listed in this catalogue are for reference only, King Core reserves the right to alter or revise the specifications without prior notification.

SMD POWER INDUCTORS → BSF2010BNRA SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF(MHz) min	Isat (A)max	IDC (A)max
BSF2010BNRAR47MT	0.47	62	170	2.30	2.20
BSF2010BNRAR68MT	0.68	80	140	2.00	1.80
BSF2010BNRA1R0MT	1.00	96	110	1.80	1.70
BSF2010BNRA1R5MT	1.50	150	95	1.40	1.40
BSF2010BNRA1R8MT	1.80	175	70	1.20	1.20
BSF2010BNRA2R2MT	2.20	210	70	1.10	1.10
BSF2010BNRA3R3MT	3.30	300	55	0.95	1.00
BSF2010BNRA4R7MT	4.70	384	45	0.76	0.85
BSF2010BNRA6R8MT	6.80	770	35	0.66	0.67
BSF2010BNRA8R2MT	8.20	840	30	0.63	0.65
BSF2010BNRA100MT	10.0	950	30	0.60	0.65
BSF2010BNRA150MT	15.0	1600	25	0.45	0.40

※Test Frequency: 1MHz/0.1V

※Tolerance: M \pm 20%

※Isat:Based on Inductance decrease 30%

※IDC:Based on Temperature increase 40°C

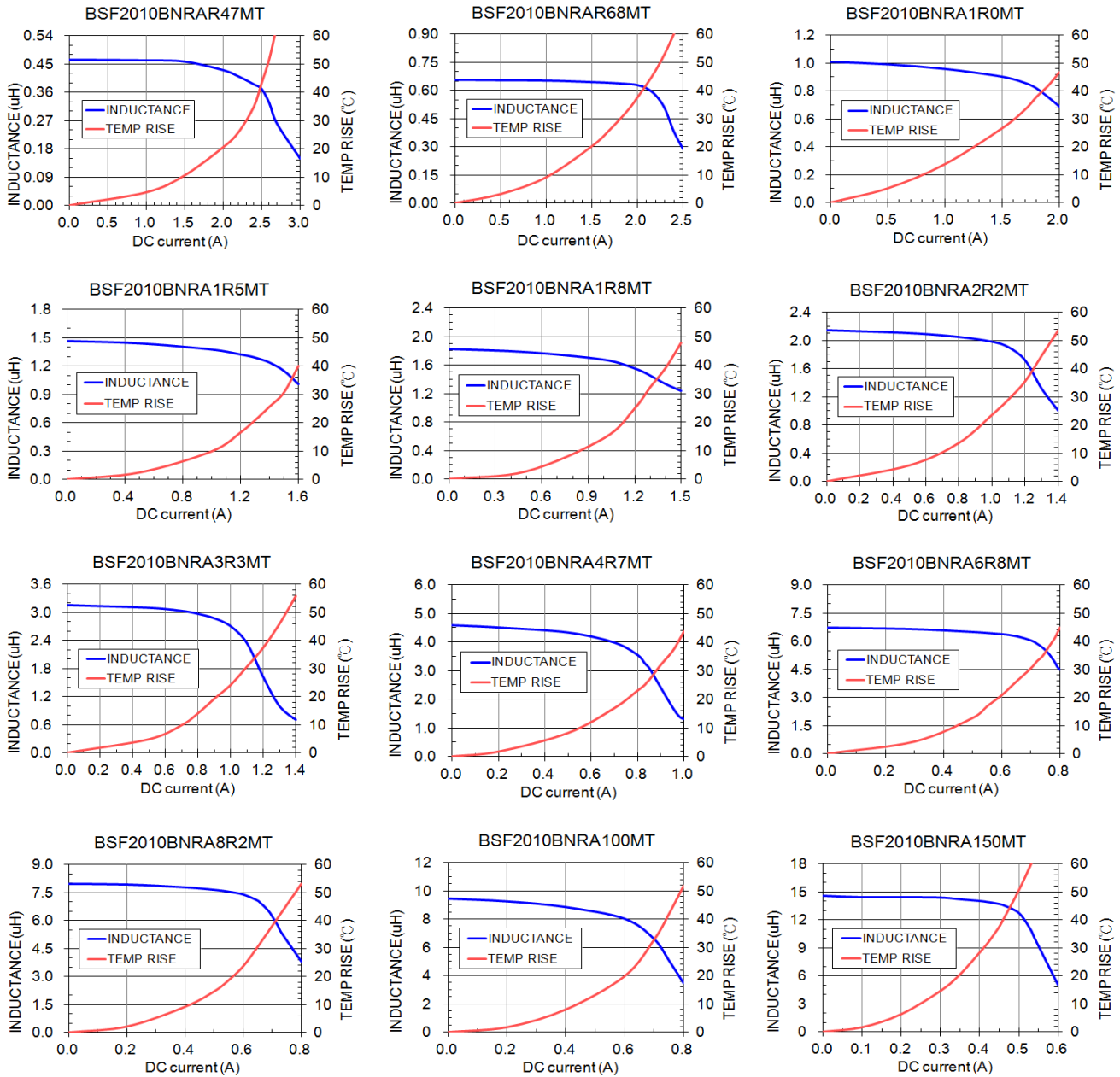
※Operating temperature range : -40 to +125°C (including self-heating)

※Storage Temp. : -40°C TO+85°C

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SMD POWER INDUCTORS → BSF2010BNRA SERIES

ELECTRICAL CHARACTERISTIC



※Test Frequency: 1MHz/0.1V

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SMD POWER INDUCTORS → BSF2010BNRB SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF(MHz) min	Isat (A)max	IDC (A)max
BSF2010BNRBR24MT	0.24	25	200	2.20	3.40
BSF2010BNRBR33MT	0.33	35	180	2.10	3.00
BSF2010BNRBR47MT	0.47	50	170	2.00	2.60
BSF2010BNRB1R0MT	1.00	80	110	1.40	1.80
BSF2010BNRB1R5MT	1.50	120	90	1.10	1.50
BSF2010BNRB2R2MT	2.20	150	60	0.85	1.30
BSF2010BNRB3R3MT	3.30	187	55	0.70	1.20
BSF2010BNRB4R7MT	4.70	225	45	0.50	1.10
BSF2010BNRB100MT	10.0	540	30	0.39	0.75
BSF2010BNRB220MT	22.0	1500	20	0.26	0.38

※Test Frequency: 1MHz/0.1V

※Tolerance: M \pm 20%

※Isat:Based on Inductance decrease 30%

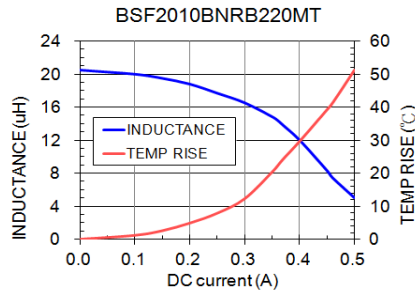
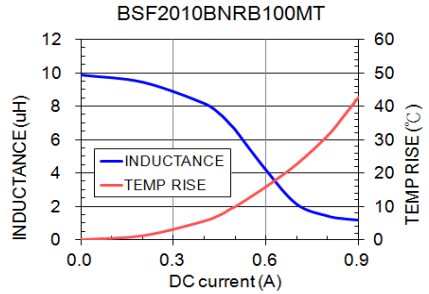
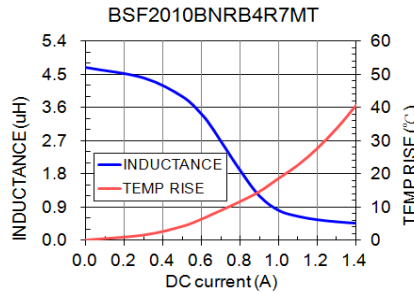
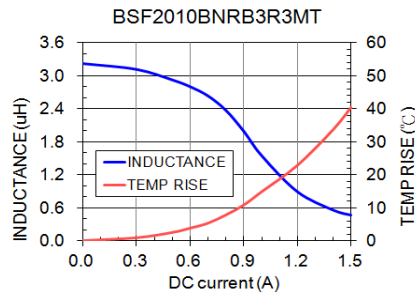
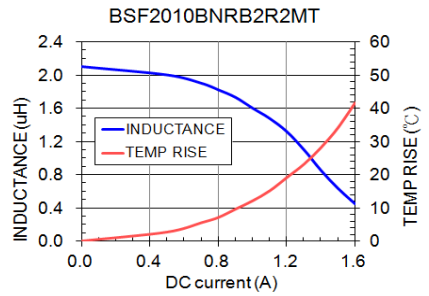
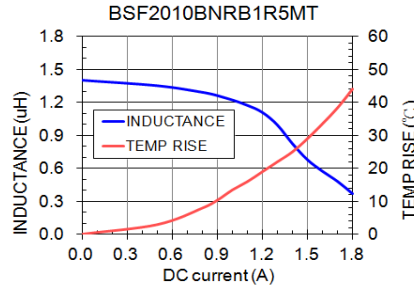
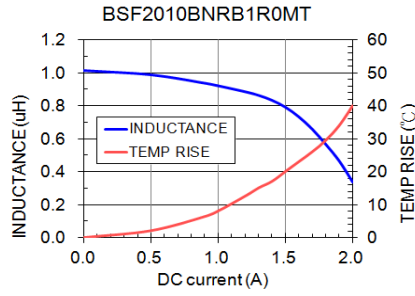
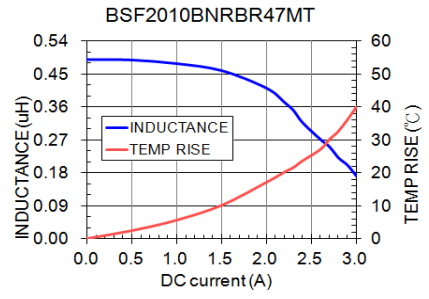
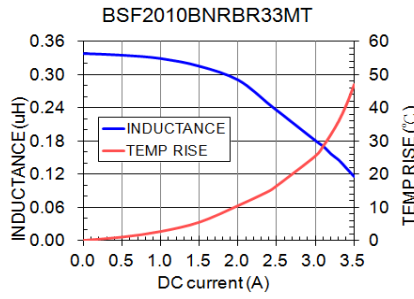
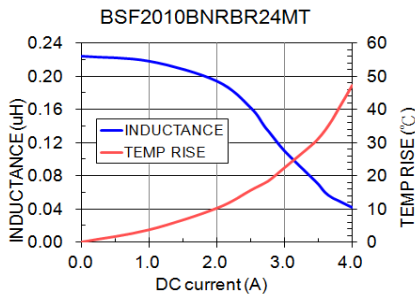
※IDC:Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-heating)

※Storage Temp. : -40°C TO+85°C

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ELECTRICAL CHARACTERISTIC



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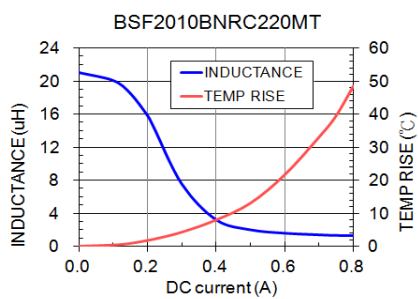
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SMD POWER INDUCTORS → BSF2010BNRC SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance ($m\Omega$)max	SRF(MHz) min	Isat (A)max	IDC (A)max
BSF2010BNRC220MT	22.0	770	20	0.17	0.65



※Test Frequency: 1MHz/0.1V

※Tolerance: M \pm 20%

※Isat:Based on Inductance decrease 30%

※IDC:Based on Temperature increase 40 $^{\circ}$ C

※Operating temperature range : -40 to +125 $^{\circ}$ C (including self-heating)

※Storage Temp. : -40 $^{\circ}$ C TO+85 $^{\circ}$ C

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