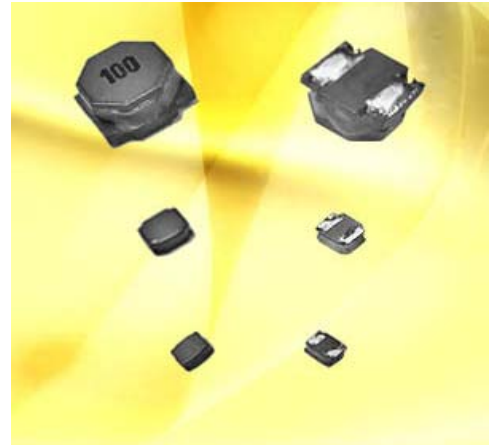


# SPECIFICATION OF BSF□□□□BNRM SERIES

## FEATURES

1. Low profile construction and miniature size.
2. Magnetic shielded construction.
3. High current saturation.
4. For new generation portable product D/D converter unit.



## APPLICATIONS

DVD · DSC · PDA · LCD display ·  
Smart phones · HDD · etc.

## ORDERING CODE

BSF2512BNRM R47 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

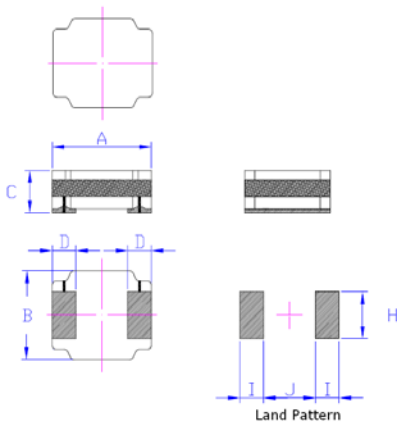


FIG 1

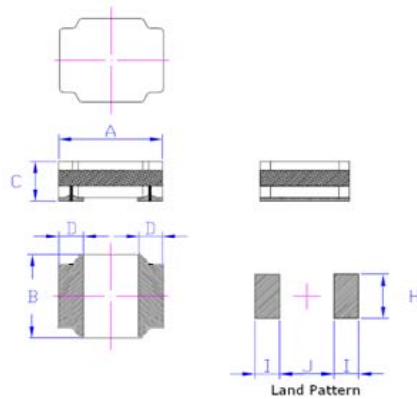


FIG 2

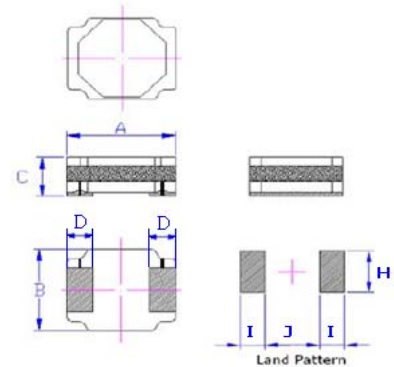


FIG 3

## SHAPE & DIMENSIONS

SIZE CODE	A mm	B mm	C mm	D mm	H	I	J	FIG
BSF2010BNRM	2.0±0.2	1.6±0.2	1.05max	0.6±0.2	1.10	1.00	0.90	1
BSF2512BNRM	2.5±0.2	2.1±0.2	1.25max	0.85±0.20	1.40	0.95	0.90	1
BSF3010BNRM	3.0±0.2	3.0±0.2	1.05max	0.9±0.2	2.90	1.00	1.20	2
BSF3012BNRM	3.0±0.2	3.0±0.2	1.25max	0.9±0.2	2.90	1.00	1.20	2
BSF3015BNRM	3.0±0.2	3.0±0.2	1.55max	0.9±0.2	2.90	1.00	1.20	2
BSF6030BNRM	6.0±0.2	6.0±0.2	3.0±0.2	1.9±0.3	5.70	1.80	2.40	3

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# SMD POWER INDUCTORS → BSF2010BNRM SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu$ H)	DC Resistance ( $m\Omega$ )max	SRF(MHz) min	Isat (A)max	IDC (A)max
BSF2010BNRMR22MT	0.22	24	115	7.00	4.50
BSF2010BNRMR33MT	0.33	34	90	5.00	3.50
BSF2010BNRMR47MT	0.47	57	70	3.30	2.40
BSF2010BNRMR68MT	0.68	66	55	2.80	2.30
BSF2010BNRMR82MT	0.82	85	45	2.50	2.10
BSF2010BNRM1R0MT	1.00	90	40	2.30	2.10
BSF2010BNRM1R2MT	1.20	100	35	2.20	1.60
BSF2010BNRM1R5MT	1.50	148	35	1.90	1.50
BSF2010BNRM1R8MT	1.80	170	30	1.70	1.40
BSF2010BNRM2R2MT	2.20	185	30	1.60	1.40
BSF2010BNRM3R3MT	3.30	290	20	1.30	1.00
BSF2010BNRM4R7MT	4.70	350	20	1.10	0.90
BSF2010BNRM6R8MT	6.80	470	20	0.95	0.88
BSF2010BNRM100MT	10.00	850	20	0.80	0.77
BSF2010BNRM150MT	15.00	1400	7.0	0.60	0.46

※Test Frequency: 1MHz/0.1V

※Tolerance: M $\pm$ 20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

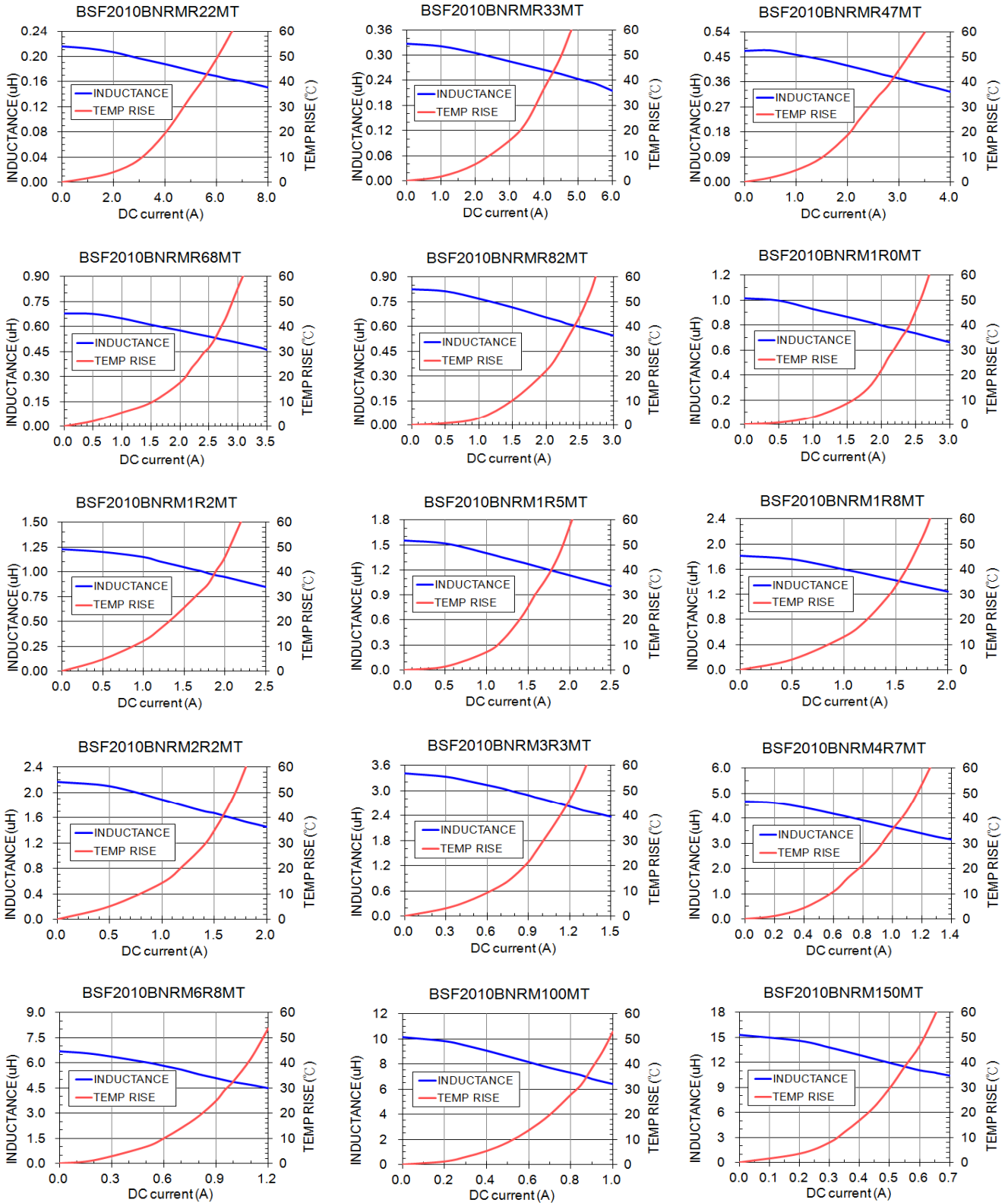
※Operating temperature range : -40 to +125°C (including self-heating)

※Storage Temp. : -40°C T0+85°C

※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 → BSF2010BNRM SERIES

## ELECTRICAL CHARACTERISTIC



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# SMD POWER INDUCTORS → BSF2512BNRM SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu$ H)	DC Resistance (m $\Omega$ )max	SRF(MHz) min	Isat (A)max	IDC (A)max
BSF2512BNRMR20MT	0.20	24	120	7.00	4.20
BSF2512BNRMR33MT	0.33	28	85	5.70	3.80
BSF2512BNRMR47MT	0.47	34	80	4.50	3.60
BSF2512BNRMR68MT	0.68	43	70	4.10	3.60
BSF2512BNRM1R0MT	1.00	55	55	3.50	3.20
BSF2512BNRM1R2MT	1.20	56	40	3.00	3.10
BSF2512BNRM1R5MT	1.50	70	40	2.70	2.50
BSF2512BNRM2R2MT	2.20	95	35	2.30	2.10
BSF2512BNRM3R3MT	3.30	150	25	1.70	1.70
BSF2512BNRM4R7MT	4.70	230	20	1.40	1.40
BSF2512BNRM6R8MT	6.80	350	15	1.30	1.20
BSF2512BNRM100MT	10.00	450	15	1.00	1.00
BSF2512BNRM150MT	15.00	620	10	0.80	0.70
BSF2512BNRM220MT	22.00	790	7	0.65	0.65

※Test Frequency: 1MHz/0.1V

※Tolerance: M $\pm$ 20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

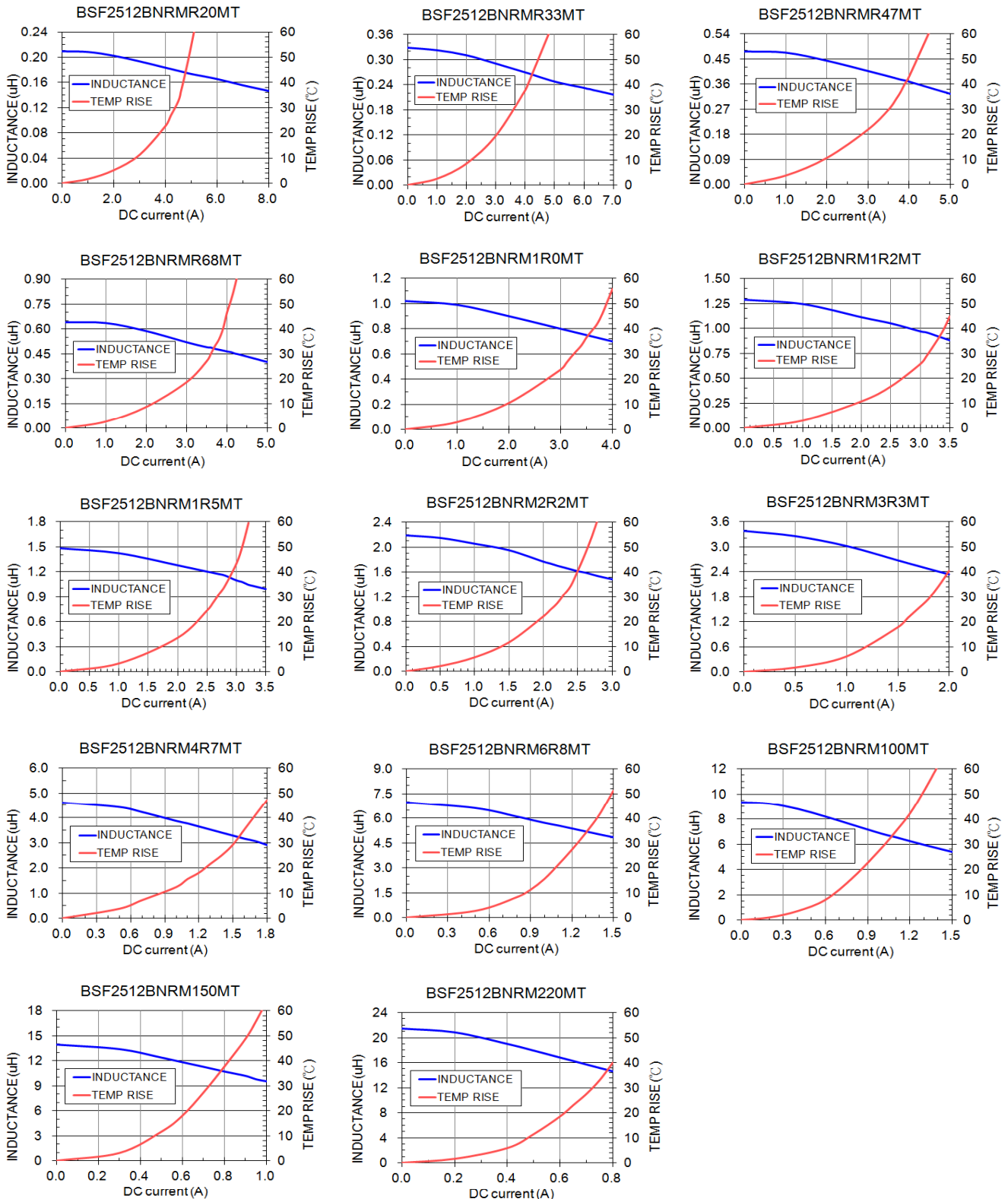
※Operating temperature range : -40 to +125°C (including self-heating)

※Storage Temp. : -40°C T0+85°C

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# SMD POWER INDUCTORS → BSF2512BNRM SERIES

## ELECTRICAL CHARACTERISTIC

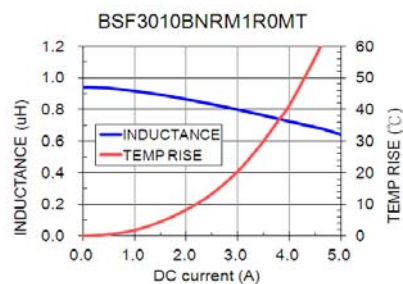
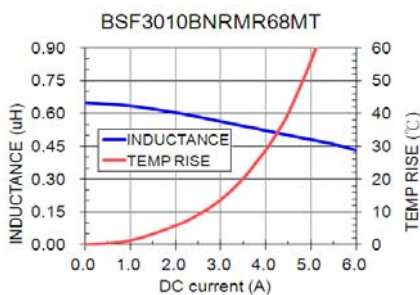
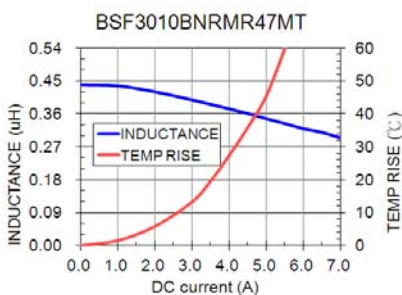


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# SMD POWER INDUCTORS → BSF3010BNRM SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu\text{H}$ )	DC Resistance ( $\text{m}\Omega$ )max	SRF(MHz) min	Isat (A)Typ	IDC (A)Typ
BSF3010BNRMR47MT	0.47	37	75	6.50	4.50
BSF3010BNRMR68MT	0.68	52	65	5.60	4.30
BSF3010BNRM1R0MT	1.00	80	50	4.70	3.80



※Test Frequency: 1MHz/0.1V

※Tolerance: M $\pm$ 20%

※Isat: Based on Inductance decrease 30%

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

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

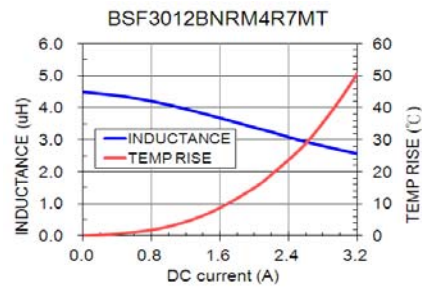
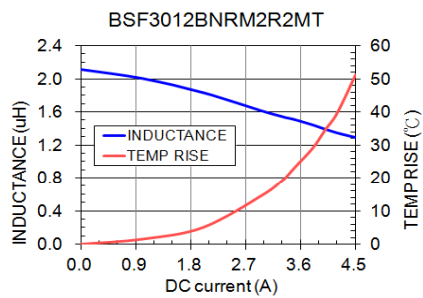
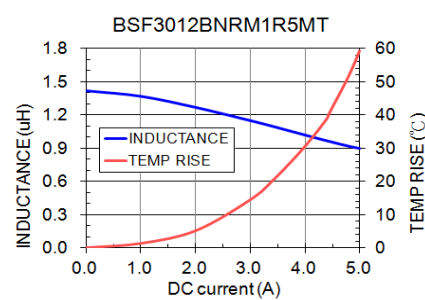
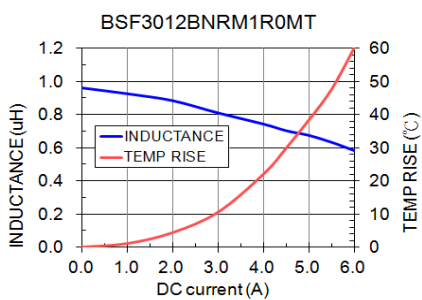
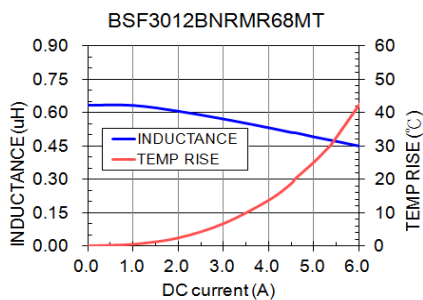
※Storage Temp. : -40 $^{\circ}\text{C}$  T0+85 $^{\circ}\text{C}$

※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 → BSF3012BNRM SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance	DC Resistance	SRF(MHz)	Isat	IDC
	( $\mu\text{H}$ )	( $\text{m}\Omega$ )max	min	(A)Typ	(A)Typ
BSF3012BNRMR68MT	0.68	42	60	6.10	5.70
BSF3012BNRM1R0MT	1.00	50	45	5.00	4.90
BSF3012BNRM1R5MT	1.50	67	35	4.30	4.20
BSF3012BNRM2R2MT	2.20	95	30	3.70	4.00
BSF3012BNRM4R7MT	4.70	190	20	2.30	2.80



※Test Frequency: 1MHz/0.1V

※Tolerance: M±20%

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

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

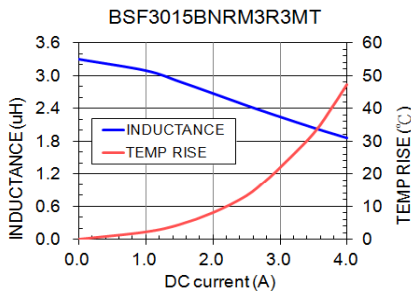
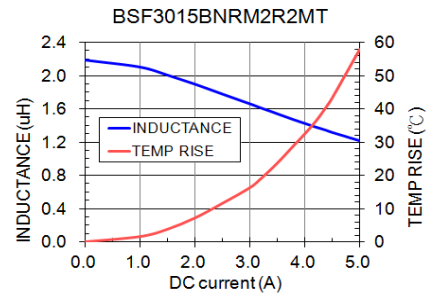
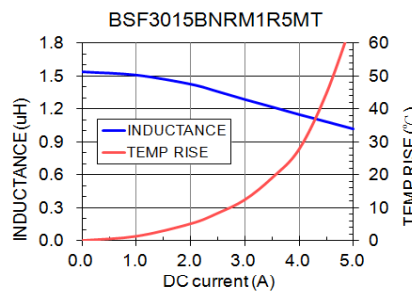
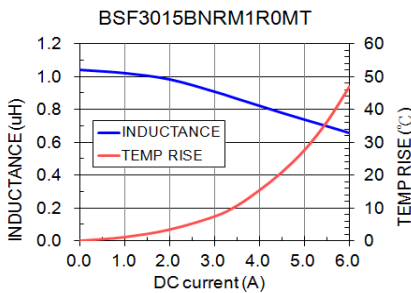
※Storage Temp. : -40°C T0+85°C

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# SMD POWER INDUCTORS → BSF3015BNRM SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance	DC Resistance	SRF(MHz)	Isat	IDC
	(μH)	(mΩ)max	min	(A)Typ	(A)Typ
BSF3015BNRM1R0MT	1.00	45	45	5.00	5.50
BSF3015BNRM1R5MT	1.50	62	35	4.50	4.20
BSF3015BNRM2R2MT	2.20	70	30	3.50	4.10
BSF3015BNRM3R3MT	3.30	100	20	2.80	3.60



※Test Frequency: 100KHz/1V

※Tolerance: M±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 T0+85°C

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# SMD POWER INDUCTORS → BSF6030BNRM SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu\text{H}$ )	DC Resistance ( $\text{m}\Omega$ )max	SRF(MHz) min	Isat (A)Typ	IDC (A)Typ
BSF6030BNRMR47MT	0.47	7.5	50	25.0	14.0
BSF6030BNRMR68MT	0.68	8	45	23.00	14.00
BSF6030BNRM1R0MT	1.00	9	40.0	16.50	13.00
BSF6030BNRM1R5MT	1.50	13	30	13.00	8.20
BSF6030BNRM2R2MT	2.20	17	25.0	11.00	8.10
BSF6030BNRM3R3MT	3.30	25	20	8.20	7.00
BSF6030BNRM4R7MT	4.70	43	15.0	7.20	6.80
BSF6030BNRM6R8MT	6.80	50	13	6.25	5.50
BSF6030BNRM100MT	10.0	67	7.0	4.80	4.40
BSF6030BNRM150MT	15.0	115	7	3.80	3.00
BSF6030BNRM220MT	22.0	170	5.0	3.20	2.90
BSF6030BNRM330MT	33.0	250	2.5	2.60	2.60
BSF6030BNRM470MT	47.0	320	2.5	2.30	2.10

※Test Frequency: 100KHz/1V

※Tolerance:  $M \pm 20\%$

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

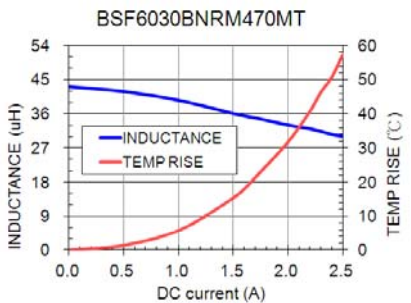
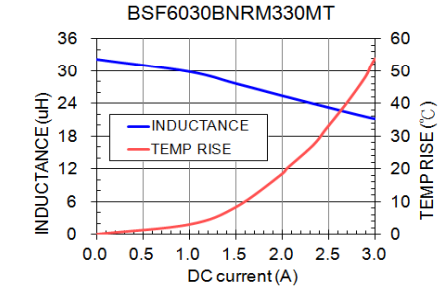
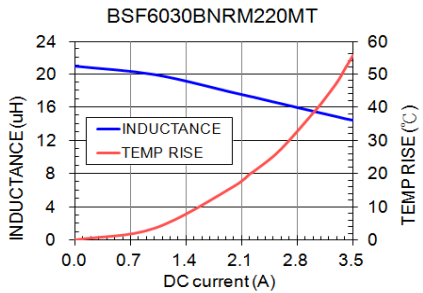
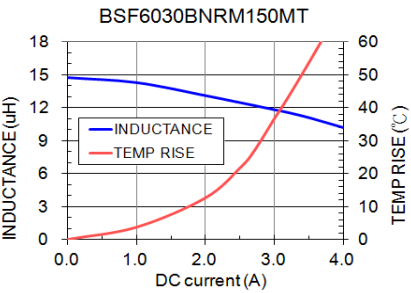
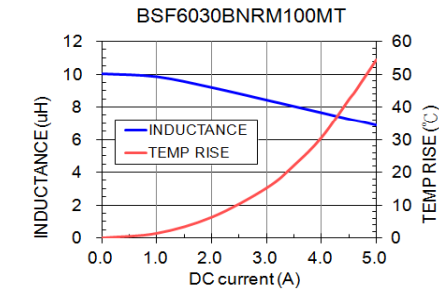
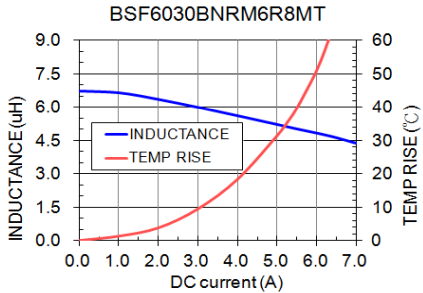
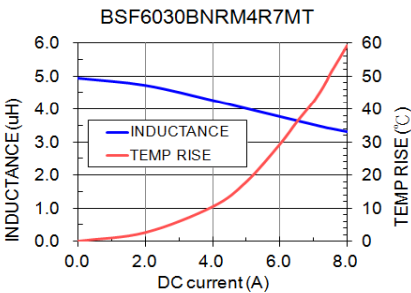
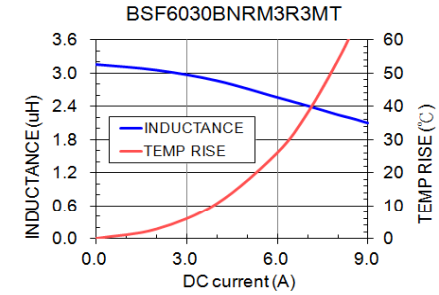
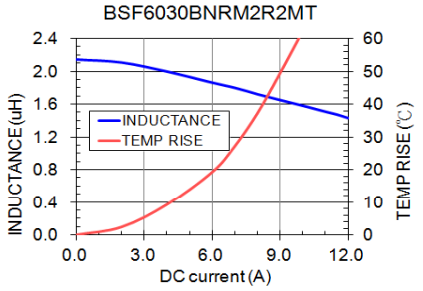
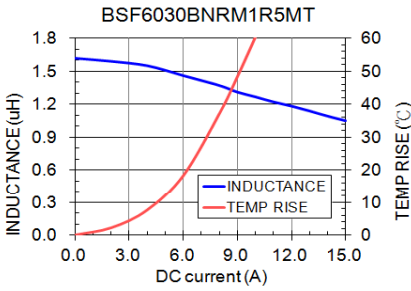
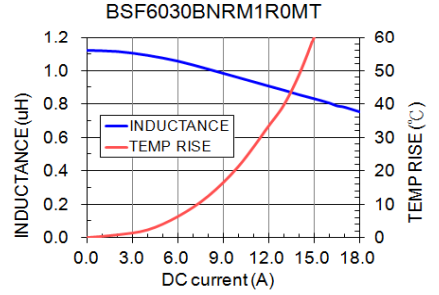
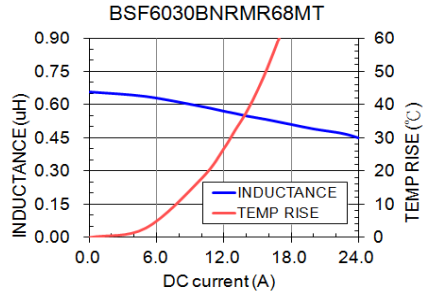
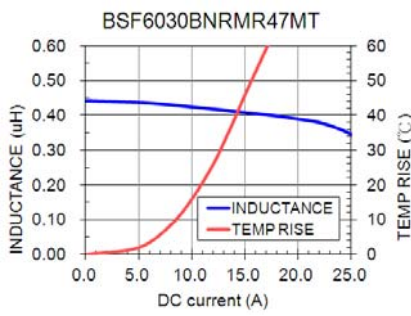
※Operating temperature range : -40 to +125°C (including self-heating)

※Storage Temp. : -40°C T0+85°C

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# SMD POWER INDUCTORS → BSF6030BNRM SERIES

## ELECTRICAL CHARACTERISTIC



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