

SPECIFICATION OF BSF3012BNRM SERIES

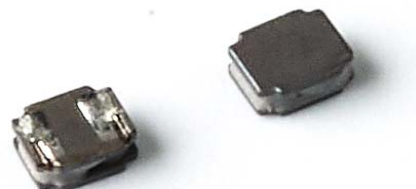
FEATURES

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

BSF3012BNRM R10 M T

(1) (2) (3) (4)

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

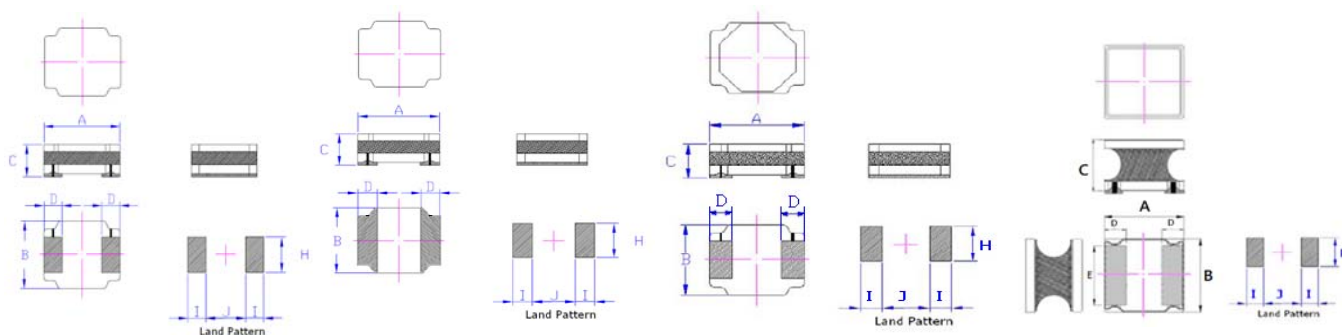


FIG 1

FIG 2

FIG 3

FIG 4

SHAPE & DIMENSIONS

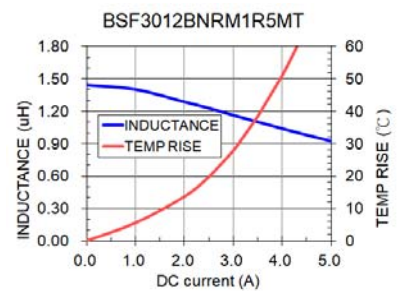
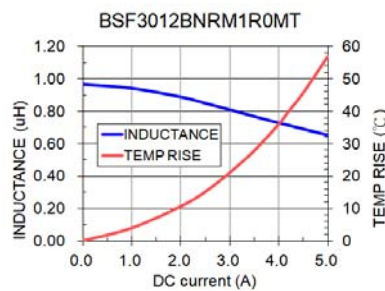
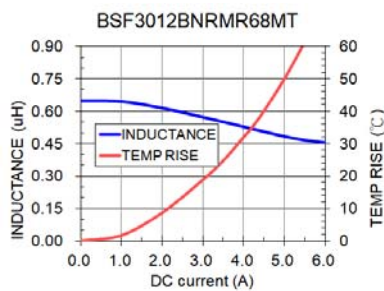
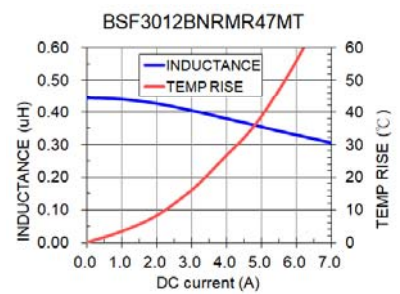
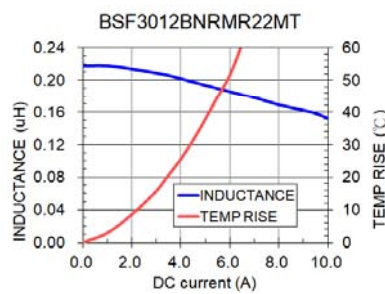
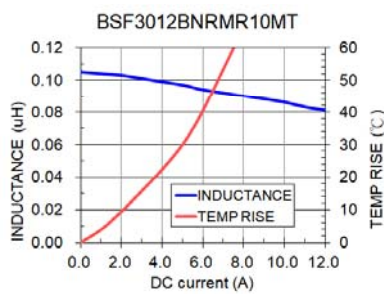
SIZE CODE	A mm	B mm	C mm	D mm	E mm	H	I	J	FIG	
BSF2010BNRM	2.0 $\pm$ 0.2	1.6 $\pm$ 0.2	1.05max	0.6 $\pm$ 0.2	—	1.10	1.00	0.90	1	
BSF2512BNRM	2.5 $\pm$ 0.2	2.1 $\pm$ 0.2	1.25max	0.85 $\pm$ 0.20	—	1.40	0.95	0.90	1	
BSF3010BNRM	3.0 $\pm$ 0.2	3.0 $\pm$ 0.2	1.05max	0.9 $\pm$ 0.2	—	2.90	1.00	1.20	2	
BSF3012BNRM	3.0 $\pm$ 0.2	3.0 $\pm$ 0.2	1.25max	0.9 $\pm$ 0.2	—	2.90	1.00	1.20	2	
BSF3015BNRM	3.0 $\pm$ 0.2	3.0 $\pm$ 0.2	1.55max	0.9 $\pm$ 0.2	—	2.90	1.00	1.20	2	
BSF5040BNRM	5.4 $\pm$ 0.2	5.7 $\pm$ 0.2	4.0 $\pm$ 0.2	1.5 $\pm$ 0.3	4.5 $\pm$ 0.3	6.10	3.07	3.05	4	
BSF6030BNRM	6.0 $\pm$ 0.2	6.0 $\pm$ 0.2	3.0 $\pm$ 0.2	1.9 $\pm$ 0.3	—	5.70	2.00	2.00	3	

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SMD POWER INDUCTORS → BSF3012BNRM SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	DC Resistance (m Ω)max	SRF(MHz) min	Isat (A)Typ	IDC (A)Typ
BSF3012BNRMR10MT	0.10	24	200	10.5	5.70
BSF3012BNRMR22MT	0.22	26	120	9.50	5.00
BSF3012BNRMR47MT	0.47	34	85	6.70	4.50
BSF3012BNRMR68MT	0.68	40	70	6.00	4.10
BSF3012BNRM1R0MT	1.00	50	50	4.80	3.90
BSF3012BNRM1R5MT	1.50	74	40	4.20	3.20
BSF3012BNRM2R2MT	2.20	100	35	3.40	2.80
BSF3012BNRM3R3MT	3.30	165	30	2.90	2.00
BSF3012BNRM4R7MT	4.70	250	20	2.30	1.70
BSF3012BNRM6R8MT	6.80	290	18	1.90	1.60
BSF3012BNRM100MT	10.00	400	15	1.55	1.45



※Test Frequency: 1MHz/0.1V

※Tolerance: M $\pm$ 20%

※Isat:Based on Inductance decrease 30%

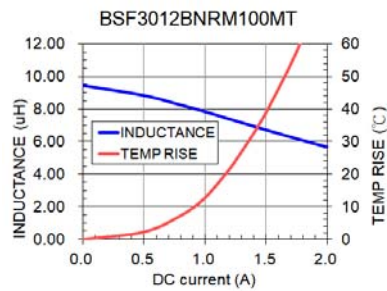
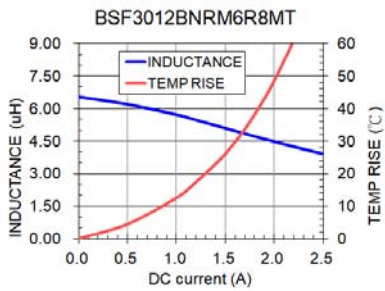
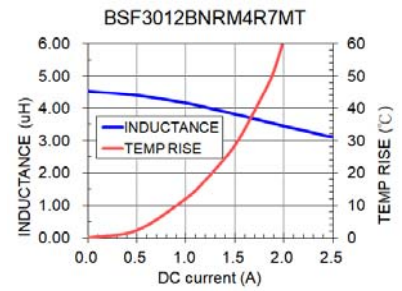
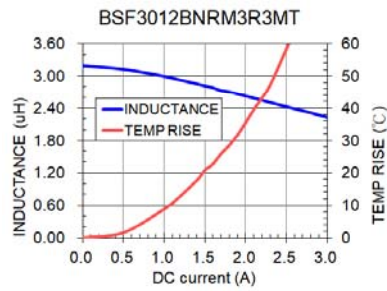
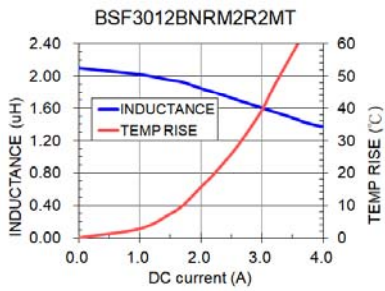
※IDC:Based on Temperature increase 40°C

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

※Storage Temp. : -40°C TO+85°C

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