

# SPECIFICATION OF BSF□□□NRSTY SERIES

## FEATURES

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

## APPLICATIONS

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

## ORDERING CODE

BSF4010NRSTY 1R0 N T  
(1) (2) (3) (4)

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

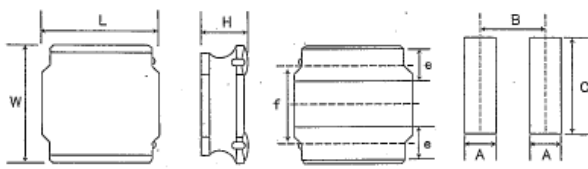
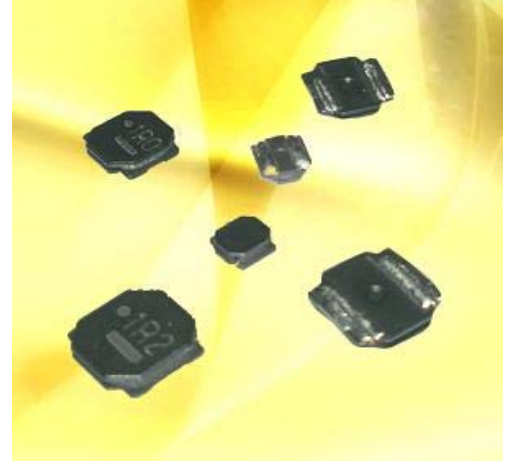


FIG 1

LAND PATTERN

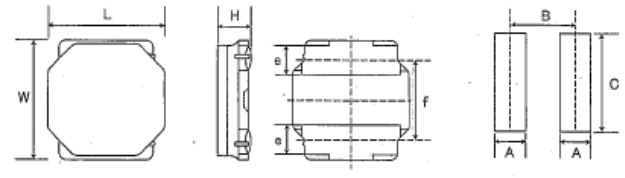


FIG 2

LAND PATTERN

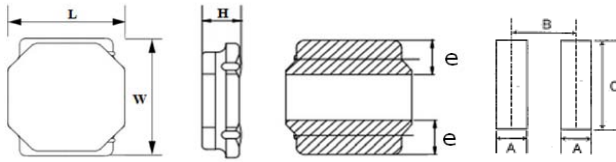


FIG 3

LAND PATTERN

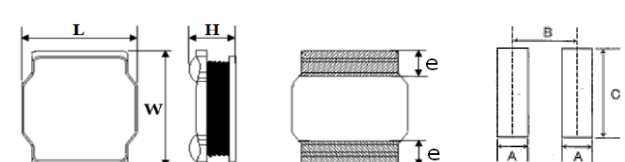


FIG 4

LAND PATTERN

## SHAPE & DIMENSIONS

SIZE CODE	L	W	H (max)	e	f	A	B	C	FIG
BSF3015NRSTY	3.0±0.1	3.0±0.1	1.5	0.9±0.2	1.9±0.2	0.8	2.2	2.7	1
BSF4010NRSTY	4.0±0.2	4.0±0.2	1.0	1.1±0.2	2.5±0.2	1.2	2.8	3.7	1
BSF4012NRSTY	4.0±0.2	4.0±0.2	1.2	1.1±0.2	2.5±0.2	1.2	2.8	3.7	1
BSF4018NRSTY	4.0±0.2	4.0±0.2	1.8	1.2REF	-	1.2	2.8	3.7	3
BSF5010NRSTY	4.9±0.2	4.9±0.2	1.0	1.2±0.2	3.3±0.2	1.5	3.6	4.0	2
BSF5012NRSTY	4.9±0.2	4.9±0.2	1.2	1.2±0.2	3.3±0.2	1.5	3.6	4.0	2
BSF5020NRSTY	4.9±0.3	4.9±0.3	2.2	1.3REF	-	1.5	3.6	4.0	3
BSF5024NRSTY	4.9±0.2	4.9±0.2	2.5	1.2±0.2	3.3±0.2	1.5	3.6	4.0	2
BSF5040NRSTY	4.9±0.3	4.9±0.3	4.1	1.3REF	-	1.5	3.6	4.0	3

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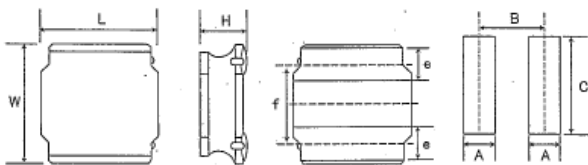
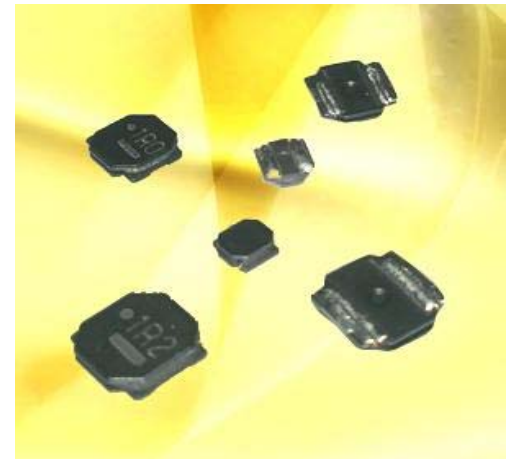


FIG 1

LAND PATTERN

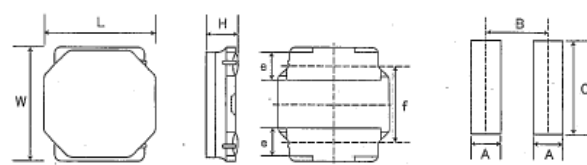


FIG 2

LAND PATTERN

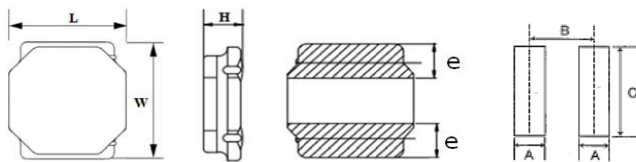


FIG 3

LAND PATTERN

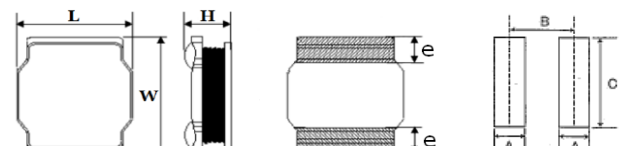


FIG 4

LAND PATTERN

## SHAPE & DIMENSIONS

SIZE CODE	L	W	H (max)	e	f	A	B	C	FIG
BSF6010NRSTY	6.0±0.2	6.0±0.2	1.0	1.35±0.20	4.0±0.2	1.6	4.7	5.7	2
BSF6012NRSTY	6.0±0.2	6.0±0.2	1.2	1.35±0.20	4.0±0.2	1.6	4.7	5.7	2
BSF6014NRSTY	6.0±0.2	6.0±0.2	1.4	1.35±0.20	4.0±0.2	1.6	4.7	5.7	2
BSF6020NRSTY	6.0±0.2	6.0±0.2	2.0	1.35±0.20	4.0±0.2	1.6	4.7	5.7	2
BSF6028NRSTY	6.0±0.2	6.0±0.2	2.8	1.35±0.20	4.0±0.2	1.6	4.7	5.7	2
BSF6045NRSTY	6.0±0.2	6.0±0.2	4.5	1.6REF	-	1.6	4.7	5.7	3
BSF8030NRSTY	8.0±0.2	8.0±0.2	3.0	1.6±0.3	5.6±0.3	1.8	5.6	7.5	1
BSF8040NRSTY	8.0±0.2	8.0±0.2	4.2	2.1REF	-	1.8	5.6	7.5	4

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## SMD POWER INDUCTORS → BSF4010NRSTY SERIES

### ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu\text{H}$ )	DC Resistance ( $\Omega$ ) $\pm 20\%$	Self Resonant Frequency (MHz)min	Isat (mA)max	IDC (mA)max
BSF4010NRSTY1R0NT	1.0	0.056	116	2000	1900
BSF4010NRSTY2R2MT	2.2	0.085	73	1200	1500
BSF4010NRSTY3R3MT	3.3	0.100	58	1100	1400
BSF4010NRSTY4R7MT	4.7	0.140	47	950	1200
BSF4010NRSTY6R8MT	6.8	0.200	38	800	1000
BSF4010NRSTY100MT	10	0.300	31	620	750
BSF4010NRSTY150MT	15	0.430	24	540	600
BSF4010NRSTY220MT	22	0.570	19	450	500

※Test Frequency/Voltage: 100KHz/1V

※Tolerance: M $\pm 20\%$ , N $\pm 30\%$

※Isat: Based on Inductance decrease 30%

※IDC: Based on Temperature increase 40°C

※Operating temperature range : -25 to +125°C (including self-generated heat)

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