

# 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

BSF8040NRSTY 0R9 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

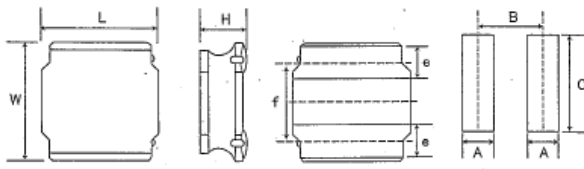
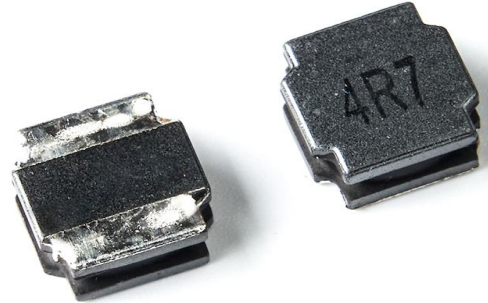


FIG 1

LAND PATTERN

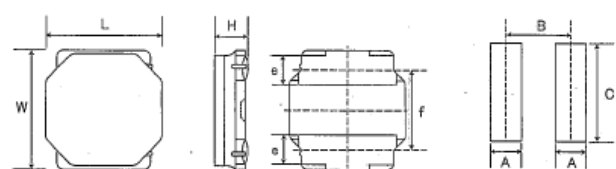


FIG 2

LAND PATTERN

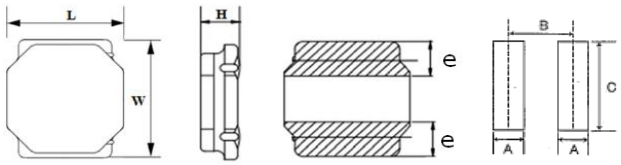


FIG 3

LAND PATTERN

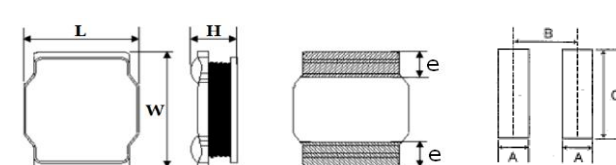


FIG 4

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

※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.

# 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

BSF8040NRSTY 0R9 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

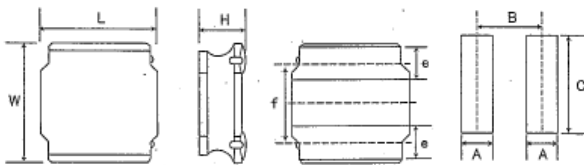
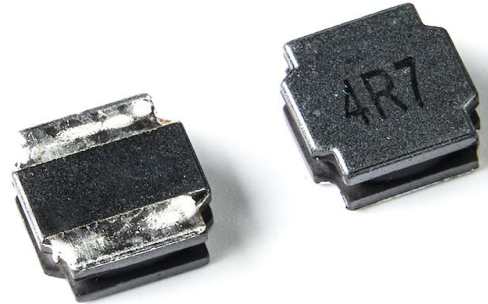


FIG 1

LAND PATTERN

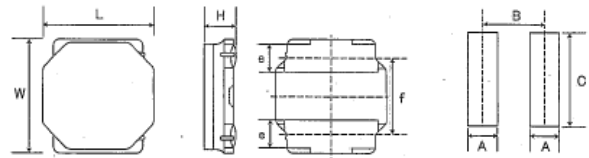


FIG 2

LAND PATTERN

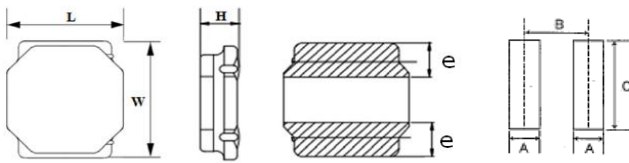


FIG 3

LAND PATTERN

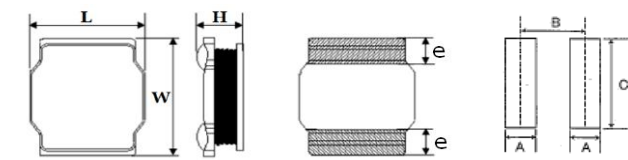


FIG 4

LAND PATTERN

## SHAPE & DIMENSIONS

SIZE CODE	L	W	H (max)	e	f	A	B	C	FIG
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

※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 → BSF8040NRSTY SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance	DC Resistance	Isat	IDC	
	( $\mu$ H)	( $\Omega$ ) $\pm$ 30%	(mA)max	(mA)max	
BSF8040NRSTY1R0NT	1.0	0.006	13000	7800	
BSF8040NRSTY2R2NT	2.2	0.009	8100	6300	
BSF8040NRSTY3R3NT	3.3	0.015	6400	4900	
BSF8040NRSTY3R6NT	3.6	0.015	6400	4900	
BSF8040NRSTY4R7NT	4.7	0.018	5400	4100	
BSF8040NRSTY6R8NT	6.8	0.025	4400	3700	
BSF8040NRSTY8R2NT	8.2	0.026	4200	3450	
BSF8040NRSTY100MT	10	0.034	3800	3100	
BSF8040NRSTY150MT	15	0.050	2900	2400	
BSF8040NRSTY220MT	22	0.066	2400	2200	
BSF8040NRSTY330MT	33	0.100	2000	1700	
BSF8040NRSTY470MT	47	0.140	1500	1500	
BSF8040NRSTY680MT	68	0.196	1450	1250	
BSF8040NRSTY101MT	100	0.280	1100	1000	

※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)

※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.



**KING CORE ELECTRONICS INC.**  
Tel:886-3-4698855 Fax:886-3-4691395

No.269,Nanfong Rd.,Pingjhen City,Taoyuan County, Taiwan  
E-mail:kc@mail.kingcore.com.tw Web Site:http://www.kingcore.com.tw