

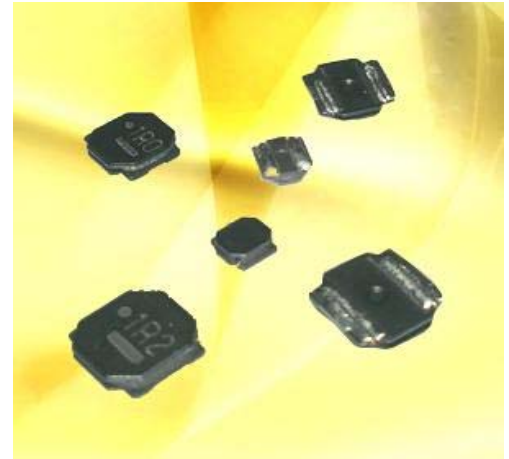
SPECIFICATION OF BSF□□□NRSTY SERIES

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

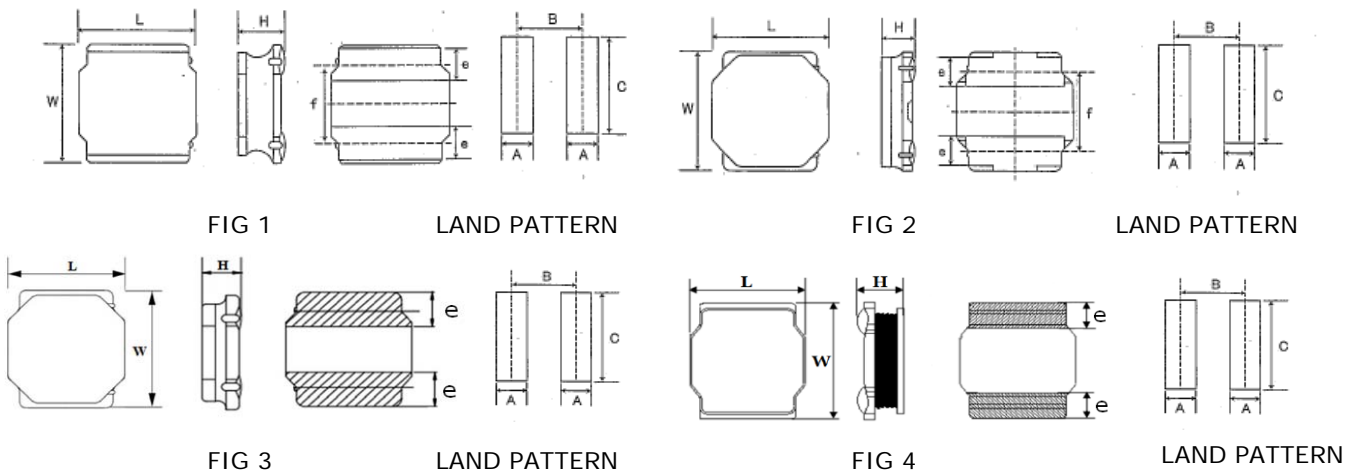
DVD、DSC、PDA、LCD display、
Smart phones、HDD、etc.



ORDERING CODE

BSF5020NRSTY **R47** **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



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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APPLICATIONS

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

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BSF5020NRSTY R47 N T
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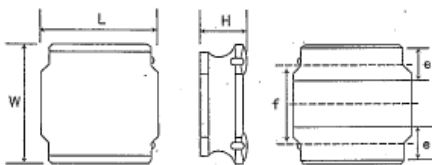
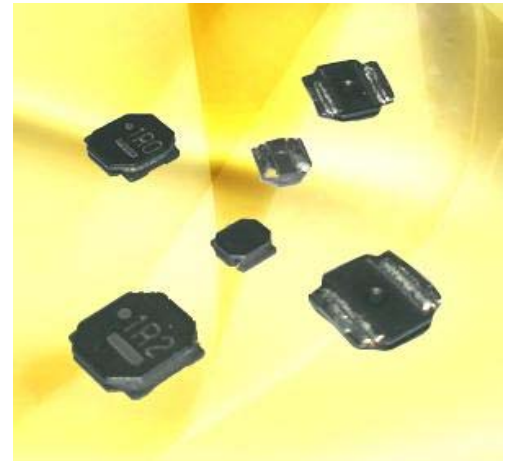
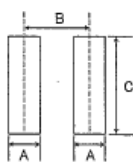


FIG 1



LAND PATTERN

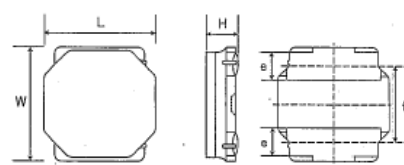
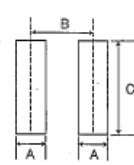


FIG 2



LAND PATTERN

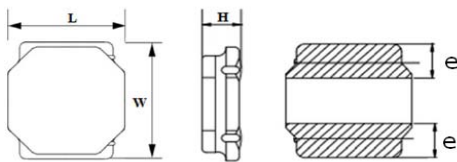
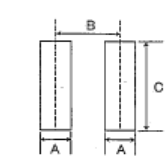


FIG 3



LAND PATTERN

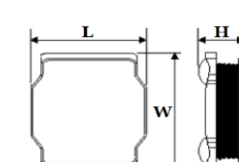
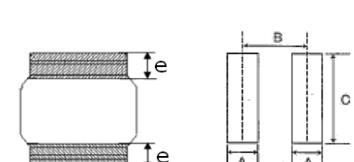


FIG 4



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 → BSF5020NRSTY SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance	DC Resistance	Isat	IDC	
	(μ H)	(Ω) \pm 20%	(mA)max	(mA)max	
BSF5020NRSTYR47NT	0.47	0.012	6100	5000	
BSF5020NRSTY1R0NT	1.0	0.021	4000	3600	
BSF5020NRSTY1R5NT	1.5	0.026	3350	3200	
BSF5020NRSTY2R2NT	2.2	0.035	2900	2900	
BSF5020NRSTY3R3NT	3.3	0.048	2400	2400	
BSF5020NRSTY4R7MT	4.7	0.060	2000	2000	
BSF5020NRSTY6R8MT	6.8	0.090	1600	1650	
BSF5020NRSTY100MT	10	0.120	1300	1450	
BSF5020NRSTY150MT	15	0.165	1100	1200	
BSF5020NRSTY220MT	22	0.260	900	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)

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