

# 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.

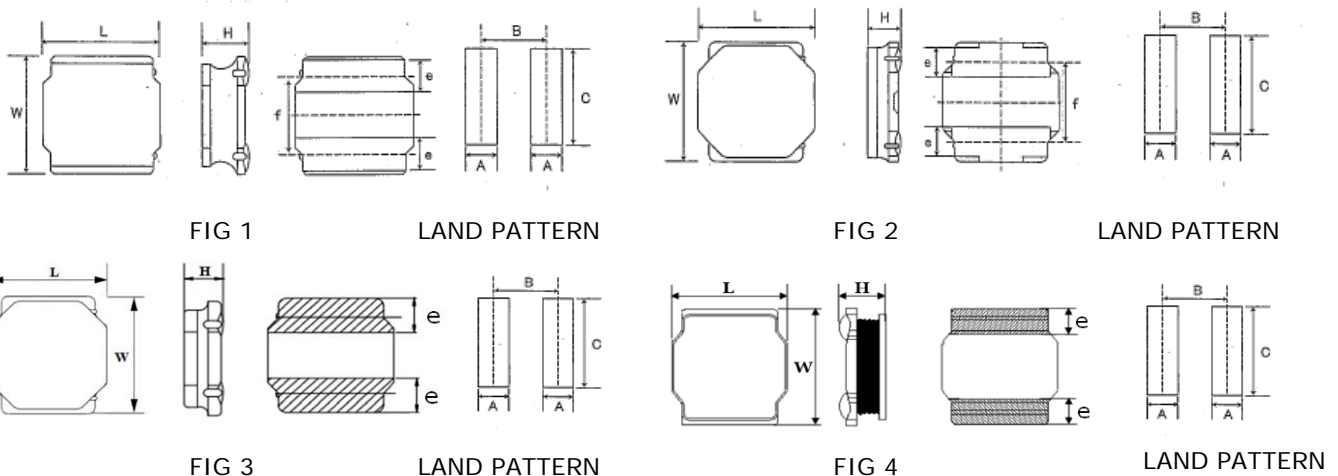
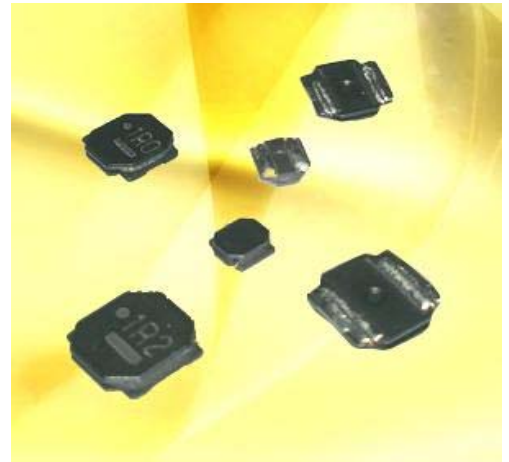
## APPLICATIONS

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

## ORDERING CODE

BSF3015NRSTY 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



## 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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# SPECIFICATION OF BSF□□□NRSTY SERIES

## FEATURES

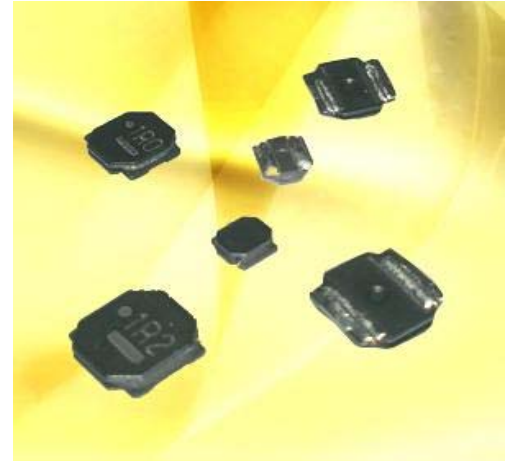
1. Low profile and miniature size construction .
2. Magnetic shielded construction.
3. High saturation current.
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## APPLICATIONS

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

## ORDERING CODE

BSF3015NRSTY 1R0 N T  
(1) (2) (3) (4)



- (1) Code of PRODUCT TYPE AND SIZE  
(2) INDUCTANCE  
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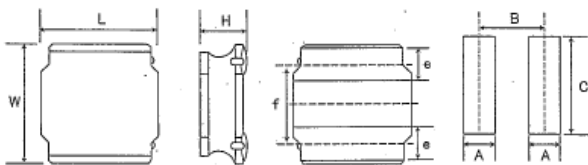


FIG 1

LAND PATTERN

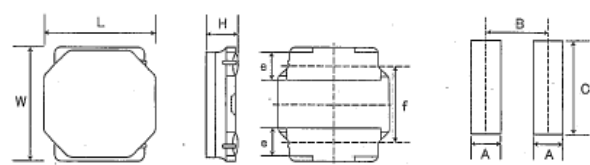


FIG 2

LAND PATTERN

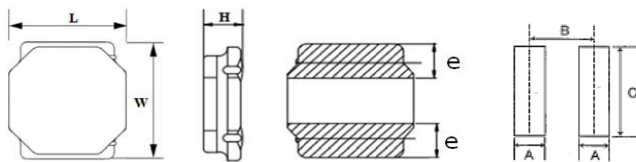


FIG 3

LAND PATTERN

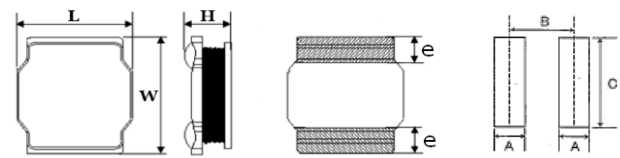


FIG 4

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 → BSF3015NRSTY 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
BSF3015NRSTY1R0NT	1.0	0.030	100	2100	2100
BSF3015NRSTY1R5NT	1.5	0.038	87	1800	1820
BSF3015NRSTY2R2MT	2.2	0.058	64	1480	1500
BSF3015NRSTY3R3MT	3.3	0.078	49	1210	1230
BSF3015NRSTY4R7MT	4.7	0.120	40	1020	1040
BSF3015NRSTY6R8MT	6.8	0.160	36	870	880
BSF3015NRSTY100MT	10	0.220	28	700	710
BSF3015NRSTY220MT	22	0.520	20	470	470

※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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## SMD POWER INDUCTORS → BSF4010NRSTY SERIES

### ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu$ 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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## SMD POWER INDUCTORS → BSF4012NRSTY 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
BSF4012NRSTY1R0NT	1.0	0.042	100	2800	2200
BSF4012NRSTY2R2MT	2.2	0.060	70	1650	1900
BSF4012NRSTY3R3MT	3.3	0.070	60	1400	1700
BSF4012NRSTY4R7MT	4.7	0.095	45	1200	1500
BSF4012NRSTY6R8MT	6.8	0.125	35	900	1300
BSF4012NRSTY100MT	10	0.170	30	800	1100
BSF4012NRSTY150MT	15	0.260	24	650	750
BSF4012NRSTY220MT	22	0.400	18	500	620

※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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## SMD POWER INDUCTORS → BSF4018NRSTY SERIES

### ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu\text{H}$ )	DC Resistance ( $\Omega$ ) $\pm 20\%$	Isat (mA)max	IDC (mA)max	
BSF4018NRSTY1R0NT	1.0	0.027	4000	3200	
BSF4018NRSTY2R2MT	2.2	0.042	3000	2200	
BSF4018NRSTY3R3MT	3.3	0.055	2300	2000	
BSF4018NRSTY4R7MT	4.7	0.070	2000	1700	
BSF4018NRSTY6R8MT	6.8	0.098	1600	1450	
BSF4018NRSTY100MT	10	0.150	1300	1200	
BSF4018NRSTY150MT	15	0.210	1100	850	
BSF4018NRSTY220MT	22	0.290	900	720	
BSF4018NRSTY330MT	33	0.460	700	550	
BSF4018NRSTY470MT	47	0.650	600	440	
BSF4018NRSTY680MT	68	1.00	520	320	

※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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## SMD POWER INDUCTORS → BSF5010NRSTY 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
BSF5010NRSTY1R0NT	1.0	0.070	95	2350	1750
BSF5010NRSTY2R2MT	2.2	0.105	65	1500	1400
BSF5010NRSTY3R3MT	3.3	0.125	42	1400	1250
BSF5010NRSTY4R7MT	4.7	0.145	37	1200	1150
BSF5010NRSTY6R8MT	6.8	0.185	33	1000	1000
BSF5010NRSTY100MT	10	0.250	23	850	900
BSF5010NRSTY150MT	15	0.400	19	680	650
BSF5010NRSTY220MT	22	0.600	15	550	450

※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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## SMD POWER INDUCTORS → BSF5012NRSTY 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
BSF5012NRSTY1R0NT	1.0	0.053	100	4500	2300
BSF5012NRSTY1R5MT	1.5	0.070	86	3800	2200
BSF5012NRSTY2R2MT	2.2	0.085	70	3100	2000
BSF5012NRSTY3R3MT	3.3	0.160	48	2400	1450
BSF5012NRSTY4R7MT	4.7	0.180	40	2200	1400
BSF5012NRSTY6R8MT	6.8	0.260	36	1700	1100
BSF5012NRSTY100MT	10	0.420	26	1400	850
BSF5012NRSTY150MT	15	0.670	22	1200	640

※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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## SMD POWER INDUCTORS → BSF5020NRSTY SERIES

### ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance	DC Resistance	Isat	IDC	
	( $\mu\text{H}$ )	( $\Omega$ ) $\pm 20\%$	(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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# SMD POWER INDUCTORS → BSF5024NRSTY 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
BSF5024NRSTY1R0NT	1.0	0.016	85	5800	4400
BSF5024NRSTY1R5NT	1.5	0.022	67	5200	3600
BSF5024NRSTY2R2NT	2.2	0.029	51	4100	3100
BSF5024NRSTY3R3NT	3.3	0.043	41	3100	2400
BSF5024NRSTY4R7MT	4.7	0.055	37	2700	2000
BSF5024NRSTY6R8MT	6.8	0.080	28	2200	1600
BSF5024NRSTY100MT	10	0.125	21	1700	1200
BSF5024NRSTY150MT	15	0.170	18	1400	1000
BSF5024NRSTY220MT	22	0.230	15	1200	820
BSF5024NRSTY330MT	33	0.370	11	1000	630

※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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# SMD POWER INDUCTORS → BSF5040NRSTY SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu\text{H}$ )	DC Resistance ( $\Omega$ ) $\pm 30\%$	Isat (mA)max	IDC (mA)max	
BSF5040NRSTY1R0NT	1.0	0.012	7350	4900	
BSF5040NRSTY1R2NT	1.2	0.016	6500	4150	
BSF5040NRSTY1R5NT	1.5	0.017	6400	4500	
BSF5040NRSTY2R2NT	2.2	0.019	5000	3700	
BSF5040NRSTY3R3NT	3.3	0.024	4000	3300	
BSF5040NRSTY4R7NT	4.7	0.032	3300	3100	
BSF5040NRSTY6R8MT	6.8	0.043	2800	2400	
BSF5040NRSTY100MT	10	0.056	2300	2100	
BSF5040NRSTY150MT	15	0.080	2000	1800	
BSF5040NRSTY220MT	22	0.126	1500	1400	
BSF5040NRSTY101MT	100	0.560	750	700	

※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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## SMD POWER INDUCTORS → BSF6010NRSTY SERIES

### ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu$ H)	DC Resistance ( $\Omega$ ) $\pm$ 20%	Self Resonant Frequency (MHz)min	Isat (mA)max	IDC (mA)max
BSF6010NRSTY1R5MT	1.5	0.090	77	2400	1900
BSF6010NRSTY2R2MT	2.2	0.110	56	1900	1700
BSF6010NRSTY3R3MT	3.3	0.135	42	1600	1500
BSF6010NRSTY4R7MT	4.7	0.165	36	1300	1400
BSF6010NRSTY6R8MT	6.8	0.220	30	1200	1200
BSF6010NRSTY100MT	10	0.270	25	1000	1100
BSF6010NRSTY220MT	22	0.580	12	650	700

※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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# SMD POWER INDUCTORS → BSF6012NRSTY 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
BSF6012NRSTY1R0NT	1.0	0.050	95	3000	2400
BSF6012NRSTY1R5NT	1.5	0.067	69	2600	2100
BSF6012NRSTY2R5NT	2.5	0.090	45	2100	1800
BSF6012NRSTY3R3NT	3.3	0.105	42	1800	1700
BSF6012NRSTY4R7MT	4.7	0.125	36	1600	1550
BSF6012NRSTY5R3MT	5.3	0.125	34	1500	1550
BSF6012NRSTY6R8MT	6.8	0.165	30	1300	1350
BSF6012NRSTY100MT	10	0.200	22	1000	1200
BSF6012NRSTY150MT	15	0.295	18	800	800
BSF6012NRSTY220MT	22	0.465	12	760	650
BSF6012NRSTY330MT	33	0.580	8	590	550
BSF6012NRSTY470MT	47	0.965	6	520	460
BSF6012NRSTY680MT	68	1.16	3	440	410
BSF6012NRSTY101MT	100	1.67	1	350	320

※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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# SMD POWER INDUCTORS → BSF6014NRSTY 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
BSF6014NRSTY1R2NT	1.2	0.042	77	4000	2750
BSF6014NRSTY2R2NT	2.2	0.055	61	3000	2300
BSF6014NRSTY3R3NT	3.3	0.075	41	2500	2000
BSF6014NRSTY4R7MT	4.7	0.090	36	2000	1900
BSF6014NRSTY6R8MT	6.8	0.115	30	1700	1650
BSF6014NRSTY100MT	10	0.140	24	1400	1400
BSF6014NRSTY150MT	15	0.210	20	1150	1200
BSF6014NRSTY220MT	22	0.300	16	950	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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# SMD POWER INDUCTORS → BSF6020NRSTY 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
BSF6020NRSTY0R8NT	0.8	0.020	110	6400	4100
BSF6020NRSTY1R5NT	1.5	0.026	93	4300	3600
BSF6020NRSTY2R2NT	2.2	0.034	73	3200	2900
BSF6020NRSTY3R3NT	3.3	0.040	55	2800	2750
BSF6020NRSTY4R7NT	4.7	0.058	43	2400	2150
BSF6020NRSTY6R8NT	6.8	0.085	30	2000	1800
BSF6020NRSTY100MT	10	0.125	18	1900	1500
BSF6020NRSTY220MT	22	0.290	11	1250	950

※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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## SMD POWER INDUCTORS → BSF6028NRSTY SERIES

### ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu\text{H}$ )	DC Resistance ( $\Omega$ ) $\pm 30\%$	Self Resonant Frequency (MHz)min	Isat (mA)max	IDC (mA)max
BSF6028NRSTY0R9NT	0.9	0.013	90	6700	4600
BSF6028NRSTY1R5NT	1.5	0.016	78	5100	4200
BSF6028NRSTY2R2NT	2.2	0.020	68	4200	3700
BSF6028NRSTY3R0NT	3.0	0.023	55	3600	3400
BSF6028NRSTY4R7MT	4.7	0.031	39	2700	3000
BSF6028NRSTY6R8MT	6.8	0.043	25	2600	2500
BSF6028NRSTY100MT	10	0.065	20	1900	1900
BSF6028NRSTY150MT	15	0.095	17	1600	1800
BSF6028NRSTY220MT	22	0.135	12	1300	1400
BSF6028NRSTY330MT	33	0.220	10	1100	1100
BSF6028NRSTY470MT	47	0.300	8	1000	920
BSF6028NRSTY680MT	68	0.420	5	800	770
BSF6028NRSTY101MT	100	0.600	3	650	660

※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.



# SMD POWER INDUCTORS → BSF6045NRSTY SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance	DC Resistance	Isat	IDC	
	( $\mu\text{H}$ )	( $\Omega$ ) $\pm 30\%$	(mA)max	(mA)max	
BSF6045NRSTY1R0NT	1.0	0.014	9800	4500	
BSF6045NRSTY2R2NT	2.2	0.022	6400	3600	
BSF6045NRSTY3R3NT	3.3	0.024	5600	3300	
BSF6045NRSTY4R7MT	4.7	0.030	4400	3100	
BSF6045NRSTY6R8NT	6.8	0.036	3600	3000	
BSF6045NRSTY100MT	10	0.046	3100	2400	
BSF6045NRSTY150MT	15	0.070	2500	1900	
BSF6045NRSTY220MT	22	0.107	2000	1600	

※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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# SMD POWER INDUCTORS → BSF8030NRSTY SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu\text{H}$ )	DC Resistance ( $\Omega$ ) $\pm 30\%$	Self Resonant Frequency (MHz)min	Isat (mA)max	IDC (mA)max
BSF8030NRSTY1R0NT	1.0	0.009	120	7800	6200
BSF8030NRSTY1R5NT	1.5	0.012	80	6200	5300
BSF8030NRSTY2R2NT	2.2	0.015	60	4900	4800
BSF8030NRSTY3R3NT	3.3	0.019	50	4200	4300
BSF8030NRSTY4R7MT	4.7	0.022	40	3600	4000
BSF8030NRSTY6R8MT	6.8	0.029	32	3000	3400
BSF8030NRSTY100MT	10.0	0.033	27	2400	3000
BSF8030NRSTY150MT	15	0.060	20	2000	2200
BSF8030NRSTY220MT	22	0.070	16	1750	1900
BSF8030NRSTY330MT	33	0.120	13	1300	1500
BSF8030NRSTY470MT	47	0.170	11	1100	1300

※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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# 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.