

SPECIFICATION OF BSF□□□RHSU SERIES

FEATURES

To be high saturation for surface mounting.



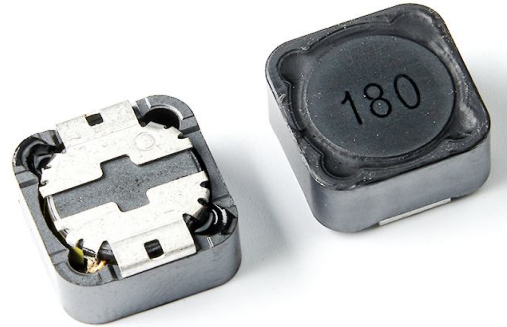
APPLICATIONS

OA equipment , VTR , LCD television set ,
notebook PC , portable communication
equipments DC to DC converters , etc.



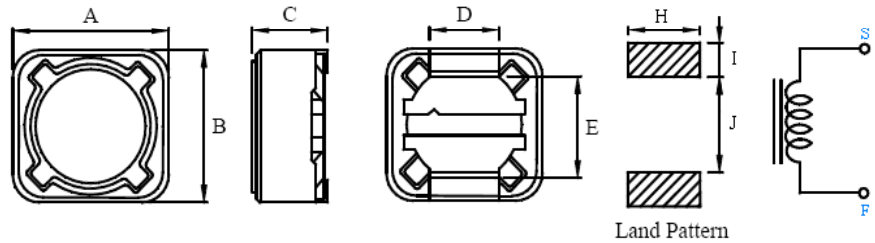
ORDERING CODE

BSF1204RHSU 100 M T
(1) (2) (3) (4)

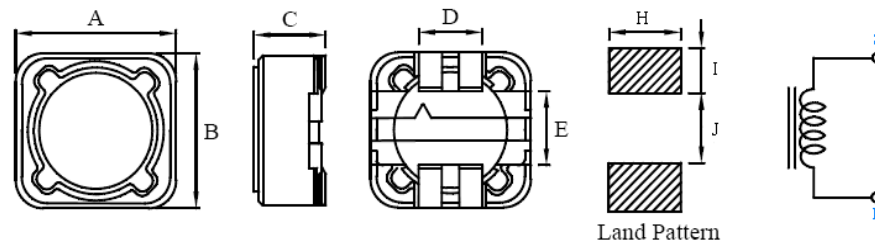


- (1) PRODUCT TYPE CODE AND SIZE CODE
- (2) INDUCTANCE
- (3) INDUCTANCE TOLERANCE (M : ±20%, N : ±30%)
- (4) REEL TAPING

**0703 0704
Series**



**1204 1205 1207
1209 Series**



SHAPE & DIMENSIONS

UNIT:mm

SIZE CODE	A (max)	B (max)	C (max)	D ±0.2	E ±0.2	H	I	J
BSF0703RHSU	7.5	7.5	3.4	2.7	5.1	3.1	1.6	4.8
BSF0704RHSU	7.5	7.5	4.5	2.7	5.1	3.1	1.6	4.8
BSF1204RHSU	12.3	12.3	4.5	5.0	7.6	5.4	2.8	7.0
BSF1205RHSU	12.3	12.3	6.0	5.0	7.6	5.4	2.8	7.0
BSF1207RHSU	12.3	12.3	8.0	5.0	7.6	5.4	2.9	7.0
BSF1209RHSU	12.2±0.3	12.2±0.3	10.0	5.0	7.6	5.4	2.9	7.0

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SMD POWER INDUCTORS → BSF0703RHSU SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω)max	Isat (A)max
BSF0703RHSU100MT	10.0	1	0.072	1.68
BSF0703RHSU120MT	12.0	1	0.098	1.52
BSF0703RHSU150MT	15.0	1	0.130	1.33
BSF0703RHSU180MT	18.0	1	0.140	1.20
BSF0703RHSU220MT	22.0	1	0.190	1.07
BSF0703RHSU270MT	27.0	1	0.210	0.96
BSF0703RHSU330MT	33.0	1	0.240	0.91
BSF0703RHSU390MT	39.0	1	0.320	0.77
BSF0703RHSU470MT	47.0	1	0.360	0.76
BSF0703RHSU560MT	56.0	1	0.470	0.68
BSF0703RHSU680MT	68.0	1	0.520	0.61
BSF0703RHSU820MT	82.0	1	0.690	0.57
BSF0703RHSU101MT	100.0	1	0.790	0.50
BSF0703RHSU121MT	120.0	1	0.890	0.49
BSF0703RHSU151MT	150.0	1	1.270	0.43
BSF0703RHSU181MT	180.0	1	1.450	0.39
BSF0703RHSU221MT	220.0	1	1.650	0.35
BSF0703RHSU271MT	270.0	1	2.310	0.32
BSF0703RHSU331MT	330.0	1	2.620	0.28
BSF0703RHSU391MT	390.0	1	2.940	0.26
BSF0703RHSU471MT	470.0	1	4.180	0.24
BSF0703RHSU561MT	560.0	1	4.670	0.22
BSF0703RHSU681MT	680.0	1	5.730	0.19
BSF0703RHSU821MT	820.0	1	6.540	0.18
BSF0703RHSU102MT	1000.0	1	9.440	0.16

Test Freq.:1KHz / 0.25V

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

※Isat: Based on Inductance decrease 35%

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SMD POWER INDUCTORS → BSF0704RHSU SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω)max	Isat (A)max
BSF0704RHSU100MT	10.0	1	0.049	1.84
BSF0704RHSU120MT	12.0	1	0.058	1.71
BSF0704RHSU150MT	15.0	1	0.081	1.47
BSF0704RHSU180MT	18.0	1	0.091	1.31
BSF0704RHSU220MT	22.0	1	0.110	1.23
BSF0704RHSU270MT	27.0	1	0.150	1.12
BSF0704RHSU330MT	33.0	1	0.170	0.96
BSF0704RHSU390MT	39.0	1	0.230	0.91
BSF0704RHSU470MT	47.0	1	0.260	0.88
BSF0704RHSU560MT	56.0	1	0.350	0.75
BSF0704RHSU680MT	68.0	1	0.380	0.69
BSF0704RHSU820MT	82.0	1	0.430	0.61
BSF0704RHSU101MT	100.0	1	0.610	0.60
BSF0704RHSU121MT	120.0	1	0.660	0.52
BSF0704RHSU151MT	150.0	1	0.880	0.46
BSF0704RHSU181MT	180.0	1	0.980	0.42
BSF0704RHSU221MT	220.0	1	1.170	0.36
BSF0704RHSU271MT	270.0	1	1.640	0.34
BSF0704RHSU331MT	330.0	1	1.860	0.32
BSF0704RHSU391MT	390.0	1	2.850	0.29
BSF0704RHSU471MT	470.0	1	3.010	0.26
BSF0704RHSU561MT	560.0	1	3.620	0.23
BSF0704RHSU681MT	680.0	1	4.630	0.22
BSF0704RHSU821MT	820.0	1	5.200	0.20
BSF0704RHSU102MT	1000.0	1	6.000	0.18

Test Freq.:1KHz / 0.25V

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

※Isat: Based on Inductance decrease 35%

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SMD POWER INDUCTORS → BSF1204RHSU SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω)max	Isat (A)max
BSF1204RHSU3R9NT	3.9	100	0.015	6.50
BSF1204RHSU4R7NT	4.7	100	0.018	5.70
BSF1204RHSU6R8NT	6.8	100	0.023	4.90
BSF1204RHSU8R2NT	8.2	100	0.026	4.60
BSF1204RHSU100MT	10.0	100	0.028	4.50
BSF1204RHSU120MT	12.0	100	0.038	4.00
BSF1204RHSU150MT	15.0	100	0.050	3.20
BSF1204RHSU180MT	18.0	100	0.057	3.10
BSF1204RHSU220MT	22.0	100	0.066	2.90
BSF1204RHSU270MT	27.0	100	0.080	2.80
BSF1204RHSU330MT	33.0	100	0.097	2.70
BSF1204RHSU390MT	39.0	100	0.132	2.10
BSF1204RHSU470MT	47.0	100	0.160	1.90
BSF1204RHSU560MT	56.0	100	0.190	1.80
BSF1204RHSU680MT	68.0	100	0.220	1.50
BSF1204RHSU820MT	82.0	100	0.260	1.30
BSF1204RHSU101MT	100.0	100	0.308	1.20
BSF1204RHSU121MT	120.0	100	0.380	1.10
BSF1204RHSU151MT	150.0	100	0.530	0.95
BSF1204RHSU181MT	180.0	100	0.620	0.85
BSF1204RHSU221MT	220.0	100	0.700	0.80
BSF1204RHSU271MT	270.0	100	0.870	0.60
BSF1204RHSU331MT	330.0	100	0.990	0.50

Test Freq.:100KHz / 0.1V

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

※Isat: Based on Inductance decrease 25%

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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

SMD POWER INDUCTORS → BSF1205RHSU SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω)max	Isat (A)max
BSF1205RHSU1R3NT	1.3	7.96M	0.012	8.00
BSF1205RHSU2R1NT	2.1	7.96M	0.014	7.00
BSF1205RHSU3R1NT	3.1	7.96M	0.017	6.00
BSF1205RHSU4R4NT	4.4	7.96M	0.020	5.00
BSF1205RHSU5R8NT	5.8	7.96M	0.021	4.40
BSF1205RHSU7R5NT	7.5	7.96M	0.024	4.20
BSF1205RHSU100MT	10.0	1K	0.025	4.00
BSF1205RHSU120MT	12.0	1K	0.027	3.50
BSF1205RHSU150MT	15.0	1K	0.030	3.30
BSF1205RHSU180MT	18.0	1K	0.034	3.00
BSF1205RHSU220MT	22.0	1K	0.036	2.80
BSF1205RHSU270MT	27.0	1K	0.051	2.30
BSF1205RHSU330MT	33.0	1K	0.057	2.10
BSF1205RHSU390MT	39.0	1K	0.068	2.00
BSF1205RHSU470MT	47.0	1K	0.075	1.80
BSF1205RHSU560MT	56.0	1K	0.110	1.70
BSF1205RHSU680MT	68.0	1K	0.120	1.50
BSF1205RHSU820MT	82.0	1K	0.140	1.40
BSF1205RHSU101MT	100.0	1K	0.160	1.30
BSF1205RHSU121MT	120.0	1K	0.170	1.10
BSF1205RHSU151MT	150.0	1K	0.230	1.00
BSF1205RHSU181MT	180.0	1K	0.290	0.90
BSF1205RHSU221MT	220.0	1K	0.400	0.80
BSF1205RHSU271MT	270.0	1K	0.460	0.75
BSF1205RHSU331MT	330.0	1K	0.510	0.68
BSF1205RHSU391MT	390.0	1K	0.690	0.65
BSF1205RHSU471MT	470.0	1K	0.770	0.58
BSF1205RHSU561MT	560.0	1K	0.860	0.54
BSF1205RHSU681MT	680.0	1K	1.200	0.48
BSF1205RHSU821MT	820.0	1K	1.340	0.43
BSF1205RHSU102MT	1000.0	1K	1.530	0.40

Test Freq.: 1.3 ~ 7.5 μ H (7.96MHz) , 10 ~ 1000 μ H (1KHz / 0.25V)

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

※Isat: Based on Inductance decrease 10%

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No.269,Nanfong Rd.,Pingjhen City,Taoyuan County, Taiwan
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SMD POWER INDUCTORS → BSF1207RHSU SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (Ω)max	Isat (A)max
BSF1207RHSU1R2NT	1.2	100	0.0070	9.80
BSF1207RHSU2R4NT	2.4	100	0.0115	8.00
BSF1207RHSU3R5NT	3.5	100	0.0135	7.50
BSF1207RHSU4R7NT	4.7	100	0.0158	6.80
BSF1207RHSU6R1NT	6.1	100	0.0176	6.60
BSF1207RHSU7R6NT	7.6	100	0.0200	5.90
BSF1207RHSU100MT	10.0	1	0.0216	5.40
BSF1207RHSU120MT	12.0	1	0.0243	4.90
BSF1207RHSU150MT	15.0	1	0.0270	4.50
BSF1207RHSU180MT	18.0	1	0.0392	3.90
BSF1207RHSU220MT	22.0	1	0.0432	3.60
BSF1207RHSU270MT	27.0	1	0.0459	3.40
BSF1207RHSU330MT	33.0	1	0.0648	3.00
BSF1207RHSU390MT	39.0	1	0.0729	2.75
BSF1207RHSU470MT	47.0	1	0.1000	2.50
BSF1207RHSU560MT	56.0	1	0.1100	2.35
BSF1207RHSU680MT	68.0	1	0.1400	2.10
BSF1207RHSU820MT	82.0	1	0.1600	1.95
BSF1207RHSU101MT	100.0	1	0.2200	1.70
BSF1207RHSU121MT	120.0	1	0.2500	1.60
BSF1207RHSU151MT	150.0	1	0.2800	1.42
BSF1207RHSU181MT	180.0	1	0.3500	1.30
BSF1207RHSU221MT	220.0	1	0.3900	1.16
BSF1207RHSU271MT	270.0	1	0.5600	1.06
BSF1207RHSU331MT	330.0	1	0.6400	0.95
BSF1207RHSU391MT	390.0	1	0.7000	0.88
BSF1207RHSU471MT	470.0	1	0.9800	0.79
BSF1207RHSU561MT	560.0	1	1.0700	0.73
BSF1207RHSU681MT	680.0	1	1.4600	0.67
BSF1207RHSU821MT	820.0	1	1.6400	0.60
BSF1207RHSU102MT	1000.0	1	1.8200	0.55

Test Freq.: 1.2 ~ 7.6 μ H (100KHz / 0.1V) , 10 ~ 1000 μ H (1KHz / 0.25V)

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

※Isat: Based on Inductance decrease 10%

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SMD POWER INDUCTORS → BSF1209RHSU SERIES

ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)max	Isat (A)max
BSF1209RHSU1R5NT	1.5	100	0.0047	16.00
BSF1209RHSU2R4NT	2.4	100	0.0057	15.00
BSF1209RHSU3R3NT	3.3	100	0.0086	14.00
BSF1209RHSU5R0NT	5.0	100	0.0105	11.00
BSF1209RHSU6R8NT	6.8	100	0.0132	10.00
BSF1209RHSU8R2NT	8.2	100	0.0153	8.20
BSF1209RHSU100MT	10.0	1	0.0180	7.50
BSF1209RHSU120MT	12.0	1	0.0197	7.00
BSF1209RHSU150MT	15.0	1	0.0242	6.00
BSF1209RHSU180MT	18.0	1	0.0312	5.50
BSF1209RHSU220MT	22.0	1	0.0390	5.00
BSF1209RHSU270MT	27.0	1	0.0450	4.50
BSF1209RHSU330MT	33.0	1	0.0500	4.00
BSF1209RHSU390MT	39.0	1	0.0592	3.80
BSF1209RHSU470MT	47.0	1	0.0689	3.50
BSF1209RHSU560MT	56.0	1	0.0790	3.20
BSF1209RHSU680MT	68.0	1	0.0878	3.00
BSF1209RHSU820MT	82.0	1	0.1100	2.60
BSF1209RHSU101MT	100.0	1	0.1400	2.20
BSF1209RHSU121MT	120.0	1	0.1600	2.00
BSF1209RHSU151MT	150.0	1	0.2000	1.80
BSF1209RHSU181MT	180.0	1	0.2700	1.60
BSF1209RHSU221MT	220.0	1	0.3000	1.50
BSF1209RHSU271MT	270.0	1	0.4000	1.30
BSF1209RHSU331MT	330.0	1	0.4500	1.20
BSF1209RHSU391MT	390.0	1	0.5500	1.10
BSF1209RHSU471MT	470.0	1	0.6000	1.00
BSF1209RHSU561MT	560.0	1	0.7000	0.90
BSF1209RHSU681MT	680.0	1	0.8400	0.82
BSF1209RHSU821MT	820.0	1	1.0600	0.80
BSF1209RHSU102MT	1000.0	1	1.2700	0.76

Test Freq.: 1.5 ~ 8.2 μH (100KHz / 0.1V) , 10 ~ 1000 μH (1KHz / 0.25V)

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

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