

# 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.

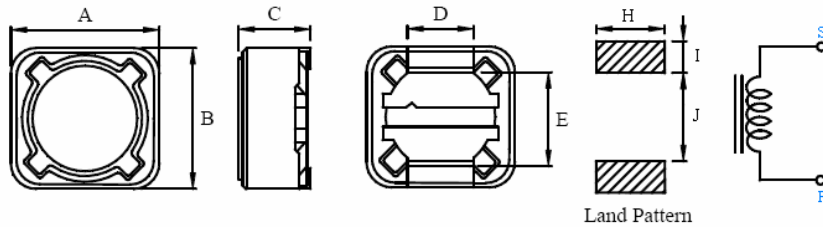


## ORDERING CODE

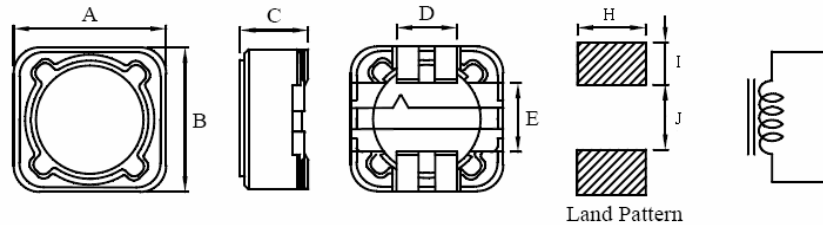
**BSF0704RHSU**   **100**   **M**   **T**  
(1)                    (2)   (3)   (4)

- (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 → BSF□□□RHSU SERIES

## ELECTRICAL CHARACTERISTIC

Stamp	L ( $\mu$ H)	RDC (ohm) max						IDC (A) max					
		BSF 0703 RHSU	BSF 0704 RHSU	BSF 1204 RHSU	BSF 1205 RHSU	BSF 1207 RHSU	BSF 1209 RHSU	BSF 0703 RHSU	BSF 0704 RHSU	BSF 1204 RHSU	BSF 1205 RHSU	BSF 1207 RHSU	BSF 1209 RHSU
		1R2N	1.2	-	-	-	-	0.0070	-	-	-	-	9.800
1R3N	1.3	-	-	-	0.0120	-	-	-	-	8.000	-	-	
1R5N	1.5	-	-	-	-	-	0.0047	-	-	-	-	16.000	
2R1N	2.1	-	-	-	0.0140	-	-	-	-	7.000	-	-	
2R4N	2.4	-	-	-	-	0.0115	0.0057	-	-	-	8.000	15.000	
3R1N	3.1	-	-	-	0.0170	-	-	-	-	6.000	-	-	
3R3N	3.3	-	-	-	-	-	0.0086	-	-	-	-	14.000	
3R5N	3.5	-	-	-	-	0.0135	-	-	-	-	7.500	-	
3R9N	3.9	-	-	0.0150	-	-	-	-	-	6.500	-	-	
4R4N	4.4	-	-	-	0.0200	-	-	-	-	-	5.000	-	
4R7N	4.7	-	-	0.0180	-	0.0158	-	-	-	5.700	-	6.800	
5R0N	5.0	-	-	-	-	-	0.0105	-	-	-	-	11.000	
5R8N	5.8	-	-	-	0.0210	-	-	-	-	4.400	-	-	
6R1N	6.1	-	-	-	-	0.0176	-	-	-	-	6.600	-	
6R8N	6.8	-	-	0.0230	-	-	0.0132	-	-	4.900	-	10.000	
7R5N	7.5	-	-	-	0.0240	-	-	-	-	-	4.200	-	
7R6N	7.6	-	-	-	-	0.0200	-	-	-	-	-	5.900	
8R2N	8.2	-	-	0.0260	-	-	0.0153	-	-	4.600	-	8.200	
100M	10	0.0720	0.0490	0.0280	0.0250	0.0216	0.0180	1.680	1.840	4.500	4.000	5.400	7.500
120M	12	0.0980	0.0580	0.0380	0.0270	0.0243	0.0197	1.520	1.710	4.000	3.500	4.900	7.000
150M	15	0.1300	0.0810	0.0500	0.0300	0.0270	0.0242	1.330	1.470	3.200	3.300	4.500	6.000
180M	18	0.1400	0.0910	0.0570	0.0340	0.0392	0.0312	1.200	1.310	3.100	3.000	3.900	5.500
220M	22	0.1900	0.1100	0.0660	0.0360	0.0432	0.0390	1.070	1.230	2.900	2.800	3.600	5.000
270M	27	0.2100	0.1500	0.0800	0.0510	0.0459	0.0450	0.960	1.120	2.800	2.300	3.400	4.500
330M	33	0.2400	0.1700	0.0970	0.0570	0.0648	0.0500	0.910	0.960	2.700	2.100	3.000	4.000
390M	39	0.3200	0.2300	0.1320	0.0680	0.0729	0.0592	0.770	0.910	2.100	2.000	2.750	3.800
470M	47	0.3600	0.2600	0.1600	0.0750	0.1000	0.0689	0.760	0.880	1.900	1.800	2.500	3.500
560M	56	0.4700	0.3500	0.1900	0.1100	0.1100	0.0790	0.680	0.750	1.800	1.700	2.350	3.200
680M	68	0.5200	0.3800	0.2200	0.1200	0.1400	0.0878	0.610	0.690	1.500	1.500	2.100	3.000
820M	82	0.6900	0.4300	0.2600	0.1400	0.1600	0.1100	0.570	0.610	1.300	1.400	1.950	2.600
101M	100	0.7900	0.6100	0.3080	0.1600	0.2200	0.1400	0.500	0.600	1.200	1.300	1.700	2.200
121M	120	0.8900	0.6600	0.3800	0.1700	0.2500	0.1600	0.490	0.520	1.100	1.100	1.600	2.000
151M	150	1.2700	0.8800	0.5300	0.2300	0.2800	0.2000	0.430	0.460	0.950	1.000	1.420	1.800
181M	180	1.4500	0.9800	0.6200	0.2900	0.3500	0.2700	0.390	0.420	0.850	0.900	1.300	1.600
221M	220	1.6500	1.1700	0.7000	0.4000	0.3900	0.3000	0.350	0.360	0.800	0.800	1.160	1.500
271M	270	2.3100	1.6400	0.8700	0.4600	0.5600	0.4000	0.320	0.340	0.600	0.750	1.060	1.300
331M	330	2.6200	1.8600	0.9900	0.5100	0.6400	0.4500	0.280	0.320	0.500	0.680	0.950	1.200
391M	390	2.9400	2.8500	-	0.6900	0.7000	0.5500	0.260	0.290	-	0.650	0.880	1.100
471M	470	4.1800	3.0100	-	0.7700	0.9800	0.6000	0.240	0.260	-	0.580	0.790	1.000
561M	560	4.6700	3.6200	-	0.8600	1.0700	0.7000	0.220	0.230	-	0.540	0.730	0.900
681M	680	5.7300	4.6300	-	1.2000	1.4600	0.8400	0.190	0.220	-	0.480	0.670	0.820
821M	820	6.5400	5.2000	-	1.3400	1.6400	1.0600	0.180	0.200	-	0.430	0.600	0.800
102M	1000	9.4400	6.0000	-	1.5300	1.8200	1.2700	0.160	0.180	-	0.400	0.550	0.760

Test Freq. :

BSF0703RHSU	10 ~ 1000 $\mu$ H (1KHz / 0.25V)
BSF0704RHSU	10 ~ 1000 $\mu$ H (1KHz / 0.25V)
BSF1204RHSU	3.9 ~ 330 $\mu$ H (100KHz / 0.1V)
BSF1205RHSU	1.3 ~ 7.5 $\mu$ H (7.96MHz) , 10 ~ 1000 $\mu$ H (1KHz / 0.25V)
BSF1207RHSU	1.2 ~ 7.6 $\mu$ H (100KHz / 0.1V) , 10 ~ 1000 $\mu$ H (1KHz / 0.25V)
BSF1209RHSU	1.5 ~ 8.2 $\mu$ H (100KHz / 0.1V) , 10 ~ 1000 $\mu$ H (1KHz / 0.25V)

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

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# SMD POWER INDUCTORS → BSF0704RHSU SERIES

## ELECTRICAL CHARACTERISTIC

ORDERING CODE	Inductance ( $\mu$ H)	Test Frequency (KHz)	DC Resistance ( $\Omega$ )max	IDC (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%

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