

## BPSC Series

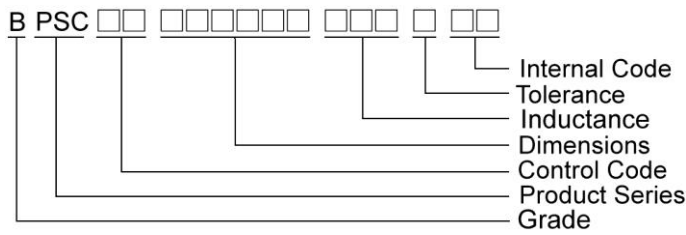
### Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

### Applications

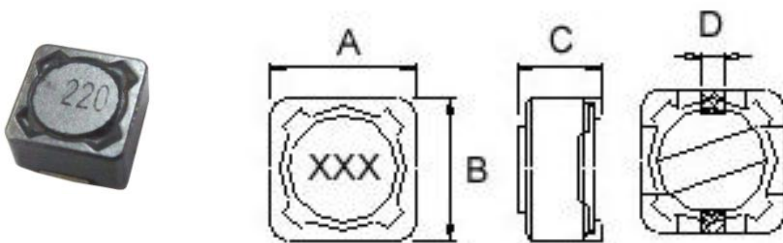
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

### Product Identification



### Shape and Dimensions

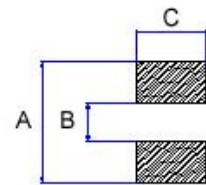
BPSC00070734/070745



Dimension in mm

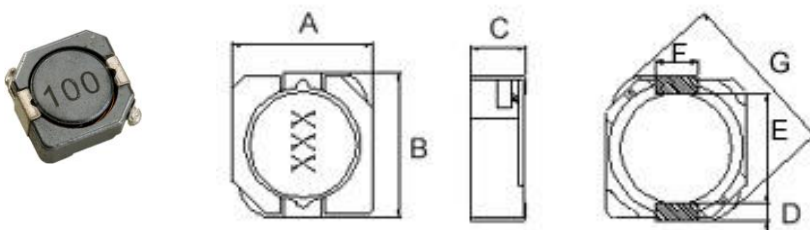
TYPE	Shape and Dimensions				Recommended Pattern		
	A	B	C	D	A	B	C
BPSC00070734	7.3±0.2	7.3±0.2	3.4 <sup>+0</sup>	1.8	8.4	4.4	2.2
BPSC00070745	7.3±0.2	7.3±0.2	4.5 <sup>+0</sup>	1.8	8.4	4.4	2.2

### Recommended Pattern



### Shape and Dimensions

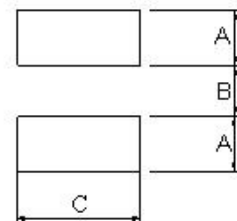
BPSC00101131/101140/101151



Dimensions in mm

TYPE	A	B	C	D	E	F	G	A	B	C
BPSC00101131	10.3 <sup>+0</sup>	10.5 <sup>+0</sup>	3.1 <sup>+0</sup>	1.2	7.7	3.0	13.5 <sup>+0</sup>	1.6	7.3	3.2
BPSC00101140	10.3 <sup>+0</sup>	10.5 <sup>+0</sup>	4 <sup>+0</sup>	1.2	7.7	3.0	13.5 <sup>+0</sup>	1.6	7.3	3.2
BPSC00101151	10.3 <sup>+0</sup>	10.5 <sup>+0</sup>	5.1 <sup>+0</sup>	1.2	7.7	3.0	13.5 <sup>+0</sup>	1.6	7.3	3.2

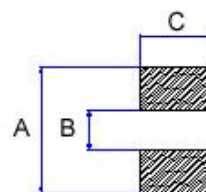
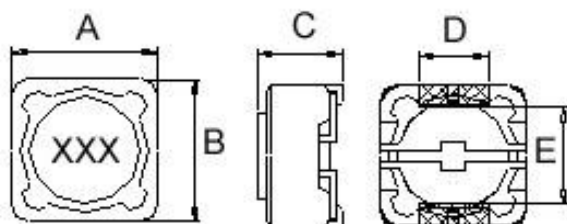
### Recommended Pattern



## Shape and Dimensions

## Recommended Pattern

BPSC00131345/131360/131380



Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPSC00131345	12.5 <sup>+0</sup>	12.5 <sup>+0</sup>	4.5 <sup>+0</sup>	5	7.6	13	7	5.4
BPSC00131360	12.5 <sup>+0</sup>	12.5 <sup>+0</sup>	6 <sup>+0</sup>	5	7.6	13	7	5.4
BPSC00131380	12.5 <sup>+0</sup>	12.5 <sup>+0</sup>	8 <sup>+0</sup>	5	7.6	13	7	5.4

# SMD Shielded Power Inductors - BPSC Series

## Standard Specifications

Stamp	Inductance (μH)	RDC (mΩ) Max							
		BPSC 070734	BPSC 070745	BPSC 101131	BPSC 101140	BPSC 101151	BPSC 131345	BPSC 131360	BPSC 131380
R80	0.8					4.3			
1R0	1.0				7.5				
1R2	1.2								7.0
1R5	1.5	30	20		8.1	5.8			8.0
1R8	1.8		25		9.5				
2R2	2.2	30	25		10.5	11			11.5
2R4	2.4								11.5
2R5	2.5				10.5				
2R7	2.7		30						
3R3	3.3	40	35		13	10.4	15	15	13.5
3R5	3.5								13.5
3R8	3.8				13				
3R9	3.9						15		
4R7	4.7		35	30	18	12.3	18	18	15.8
5R2	5.2				22				
5R6	5.6				27				
6R1	6.1								17.6
6R4	6.4							18	
6R8	6.8	60	45	35	27	18	23		20.0
7R0	7.0				27				
7R6	7.6								20.0
8R2	8.2				33	20		25	
100	10	72	49	59	35	26	28	25	21.6
120	12	98	58			33	38	27	24.3
150	15	130	81	91	50	41	50	30	27.0
180	18	140	91		70	46	57	34	39.2
220	22	190	110		73	61	66	36	43.2
270	27	210	150		90	69	80	51	45.9
330	33	240	170	202	93	84	97	57	64.8
390	39	320	230		128	106	132	68	72.9
470	47	360	260	299	128	130	150	75	100
560	56	470	350		213	149	190	110	110
680	68	520	380		213	201	220	120	140
820	82	690	430		280	227	260	140	160
101	100	790	610		304	253	308	160	220
121	120	890	660			303	380	170	250
151	150	1270	880		506	370	530	230	280
181	180	1450	980			419	620	290	350
201	200				756				
221	220	1650	1170		756	500	700	400	390
271	270	2310	1640			672	876	460	560
331	330	2620	1860		1090	812	990	510	640
391	390	2940	2850			953		690	700
471	470	4180	3010		1600	1289		770	980
561	560	4670	3620		2100	1430		860	1070
681	680	5730	4630			1599		1200	1460
821	820	6540	5200			1768		1340	1640
102	1000	9440	6000			1989		1530	1820

**Note:** When ordering, please specify tolerance code. Tolerance: M=±20%, T=±30%, N = <sup>+40</sup>/<sub>-20</sub>%

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Measure Equipment :  
 L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)  
 RDC : Chroma 16502  
 Rated Current : HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

# SMD Shielded Power Inductors - BPSC Series

## Standard Specifications

Stamp	Inductance (μH)	Isat (A)							
		BPSC 070734	BPSC 070745	BPSC 101131	BPSC 101140	BPSC 101151	BPSC 131345	BPSC 131360	BPSC 131380
R80	0.8					13.5			
1R0	1.0				11				
1R2	1.2								9.80
1R5	1.5	4.00	5.00		10.	10.5			9.50
1R8	1.8		4.00		8.5				
2R2	2.2	4.00	3.50		7.5	9.25			8.00
2R4	2.4								8.00
2R5	2.5				7.5				
2R7	2.7		3.50						
3R3	3.3	3.70	3.50		6.0	7.8	6.50	8.00	7.50
3R5	3.5								7.50
3R8	3.8				6.0				
3R9	3.9						6.50		
4R7	4.7		3.00	4.65	5.7	6.40	5.70	7.60	6.80
5R2	5.2				5.5				
5R6	5.6				5.0				
6R1	6.1								6.60
6R4	6.4							5.8	
6R8	6.8	2.00	2.50	3.84	5.0	5.40	4.90		6.20
7R0	7.0				4.8				
7R6	7.6								5.90
8R2	8.2				4.5	4.85		5.00	
100	10	1.68	1.84	3.18	4.4	4.45	4.50	4.00	5.40
120	12	1.52	1.71			4.00	4.00	3.50	4.90
150	15	1.33	1.47	2.60	3.6	3.60	3.20	3.30	4.50
180	18	1.20	1.31		3.5	3.20	3.10	3.00	3.90
220	22	1.07	1.23		2.9	2.95	2.90	2.80	3.60
270	27	0.96	1.12		2.5	2.70	2.80	2.30	3.40
330	33	0.91	0.96	1.74	2.3	2.50	2.70	2.10	3.00
390	39	0.77	0.91		2.1	2.30	2.10	2.00	2.75
470	47	0.76	0.88	1.43	2.1	2.00	1.90	1.80	2.50
560	56	0.68	0.75		1.6	1.90	1.80	1.70	2.35
680	68	0.61	0.69		1.5	1.65	1.50	1.50	2.10
820	82	0.57	0.61		1.35	1.50	1.30	1.40	1.95
101	100	0.50	0.60		1.35	1.35	1.20	1.30	1.70
121	120	0.49	0.52			1.28	1.10	1.10	1.60
151	150	0.43	0.46		1.15	1.12	0.95	1.00	1.42
181	180	0.39	0.42			1.04	0.85	0.90	1.30
201	200				0.92				
221	220	0.35	0.36		0.92	0.94	0.80	0.80	1.16
271	270	0.32	0.34			0.84	0.60	0.75	1.06
331	330	0.28	0.32		0.70	0.75	0.50	0.68	0.95
391	390	0.26	0.29			0.70		0.65	0.88
471	470	0.24	0.26		0.50	0.60		0.58	0.79
561	560	0.22	0.23		0.40	0.54		0.54	0.73
681	680	0.19	0.22			0.52		0.48	0.67
821	820	0.18	0.20			0.50		0.43	0.60
102	1000	0.16	0.18			0.48		0.40	0.55

### Tolerance Of Inductors

- BPSC 070734 1.5 ~ 1000uH ± 20%
- BPSC 070745 1.5 ~ 1000uH ± 20%
- BPSC 101131 4.7~47uH ± 30%
- BPSC 101140 1.0 ~ 470uH ± 30%
- BPSC 101151 0.8 ~ 1000uH ± 30%
- Tolerance : M = ±20% , T = ±30% , N = <sup>+40</sup>/<sub>-20</sub>%
- BPSC 131345 3.3 ~ 330uH ±20%
- BPSC 131360 3.3 ~ 1000uH ± 20%
- BPSC 131380 1.2 ~ 7.6uH <sup>+40</sup>/<sub>-20</sub>%
- BPSC 131380 10 ~ 1000uH ± 20%

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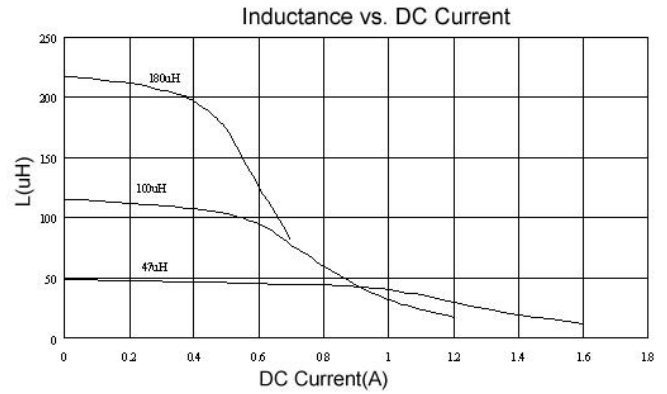
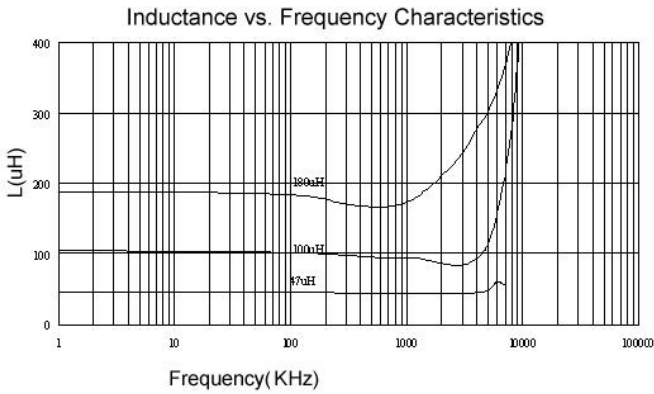
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# SMD Shielded Power Inductors - BPSC Series

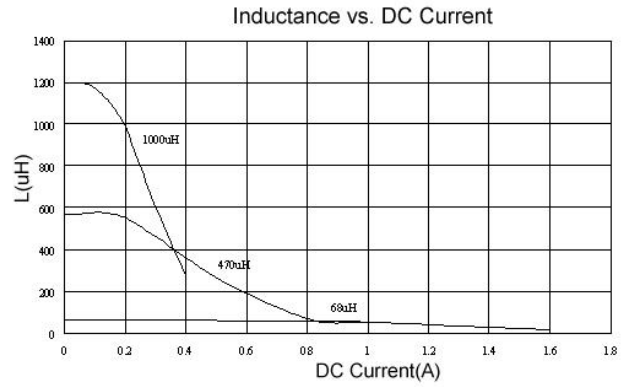
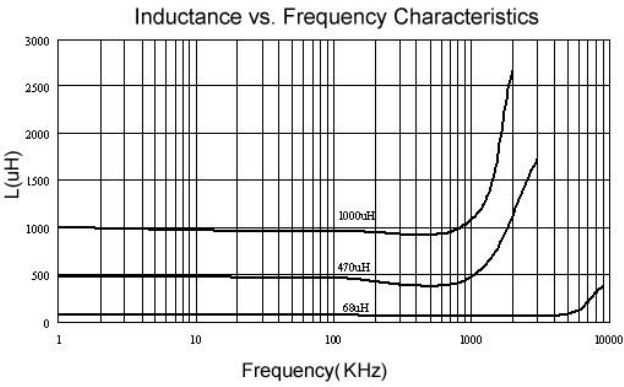
## Curves of BPSC Series

Test Instruments : HP4294 Impedance / Material Analyzer

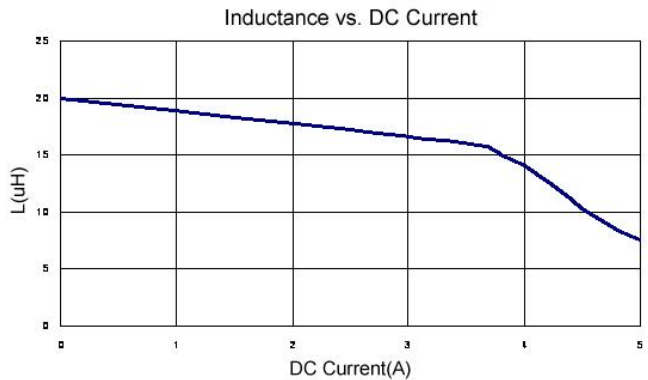
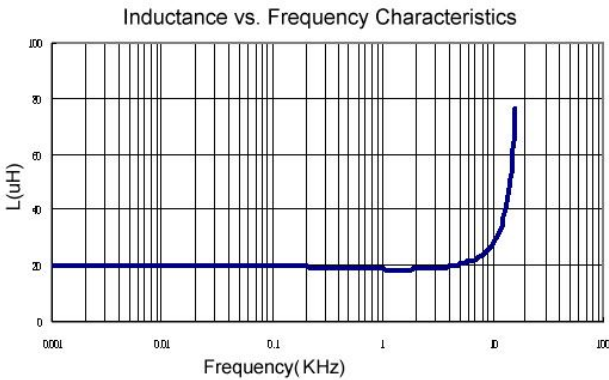
BPSC00070734



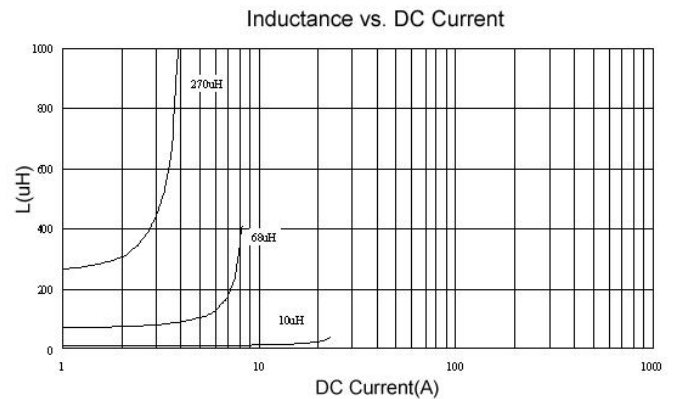
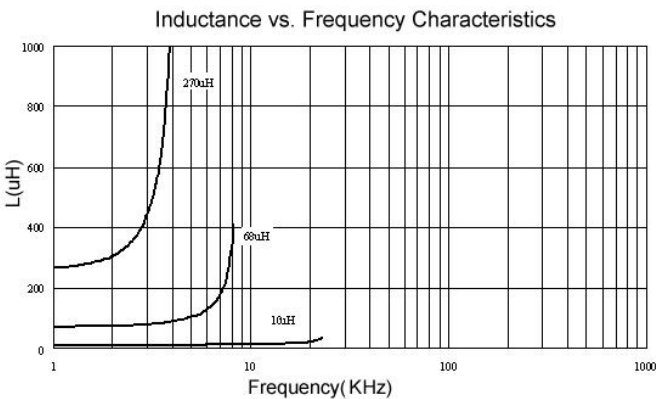
BPSC00070745



BPSC00101140



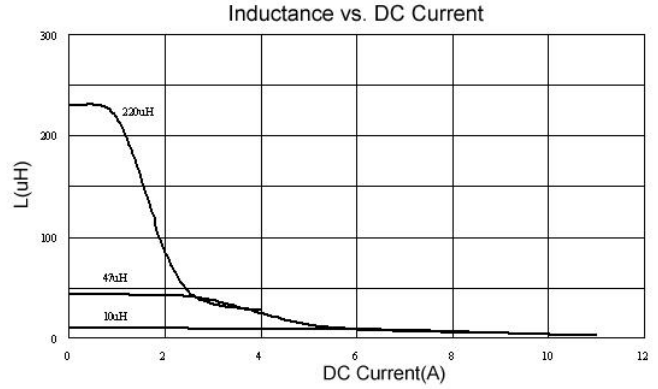
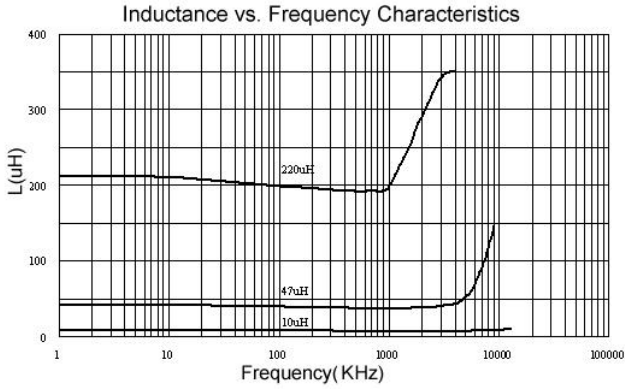
BPSC00131345



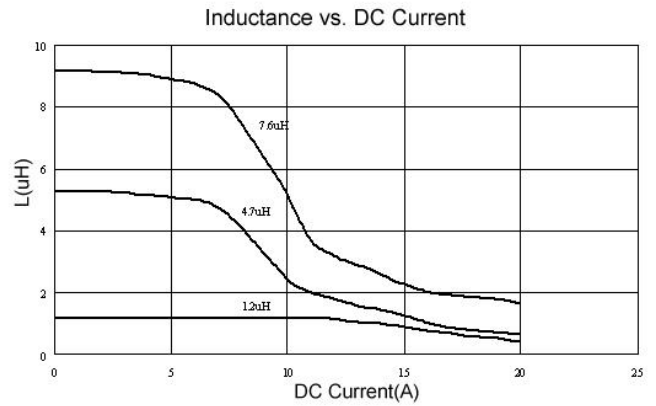
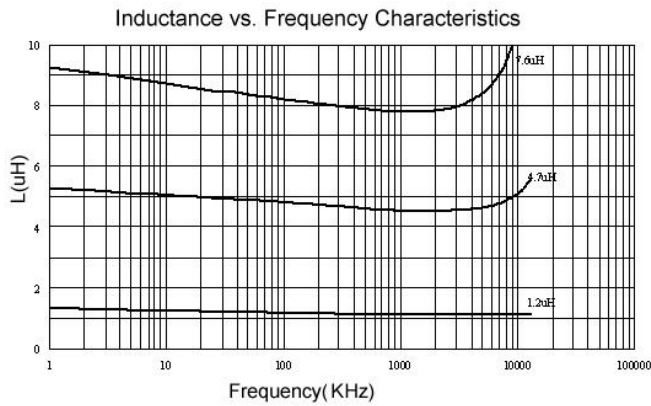
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# SMD Shielded Power Inductors - BPSC Series

BPSC00131360



BPSC00131380

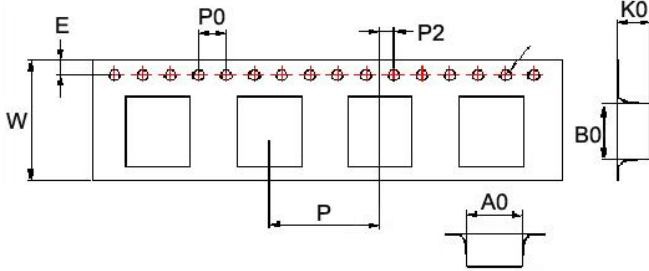


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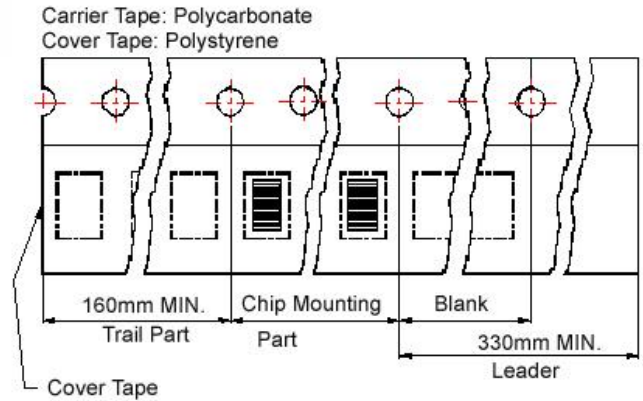
# SMD Shielded Power Inductors - BPSC Series

## Packaging Specifications

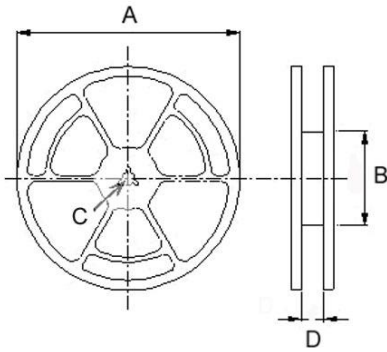
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity PCS / REEL
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	
BPSC00070734	7.6	7.6	3.6	1.55	1.75	16	12	4	2	330	100	13	16.0	1600
BPSC00070745	7.6	7.6	5.0	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSC00101131	10.6	10.75	4.2	1.55	1.75	24	16	4	2	300	100	13	24.4	1000
BPSC00101140	10.6	10.75	4.2	1.5	1.75	24	16	4	2	330	100	13	24.4	1000
BPSC00101151	10.6	10.6	5.0	1.5	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131345	13.0	12.8	5.1	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131360	12.6	12.6	6.7	1.55	1.75	24	16	4	2	330	100	13	24.4	600
BPSC00131380	12.6	12.6	8.7	1.55	1.75	24	16	4	2	330	100	13	24.4	500