

PART NUMBER CODING

B DYH S

MATERIAL (INSULATOR/CONTACT)

R = BLACK, PPS/PHOSPHOR BRONZE

OPERATING TEMP: -65°C TO +125°C

PROCESSING TEMP: 260°C MAX FOR 20 SECONDS

G = BLACK, PA9T/PHOSPHOR BRONZE

OPERATING TEMP: -65°C TO +125°C

PROCESSING TEMP: 260°C MAX FOR 20 SECONDS

A = BLACK, PPS/BERYLLIUM COPPER

OPERATING TEMP: -65°C TO +150°C

PROCESSING TEMP: 260°C MAX FOR 20 SECONDS

J = BLACK, PA9T/BERYLLIUM COPPER

OPERATING TEMP: -65°C TO +150°C

PROCESSING TEMP: 260°C MAX FOR 20 SECONDS

*F = BLACK, PPS/SPINODAL

OPERATING TEMP: -65°C TO +200°C

PROCESSING TEMP: 260°C MAX FOR 20 SECONDS

(CONSULT FACTORY FOR SPECIAL SOLDERING GUIDELINES)

*AVAILABLE IN 'M' PLATING ONLY

MODIFICATION

OMIT FOR STANDARD, EX: 'RBB15DYHD'

S# FOR MOLDED KEY

(SEE DRAWING C13556 FOR S#, 'G', & 'H' DIMENSIONS)

MOUNTING STYLE

D = FLUSH MOUNTING (PAGE 1)

N = NO MOUNTING EARS (PAGE 2)

T = FLUSH MOUNTING, WITH THREADED INSERTS (PAGE 2)

R = METAL BOARD LOCKS (PAGE 2)

B = OPEN CARD SLOT

NUMBER OF POSITIONS
(CONTACTS PER ROW)

PLATING

ALL PLATINGS ARE LEAD FREE AND HAVE .000050" NICKEL UNDERPLATE

CONTACT SURFACE

B = .000010" GOLD

C = .000030" GOLD

**N = .000050" GOLD

M = .000030" GOLD

** AVAILABLE WITH MATERIAL CODE A OR J ONLY

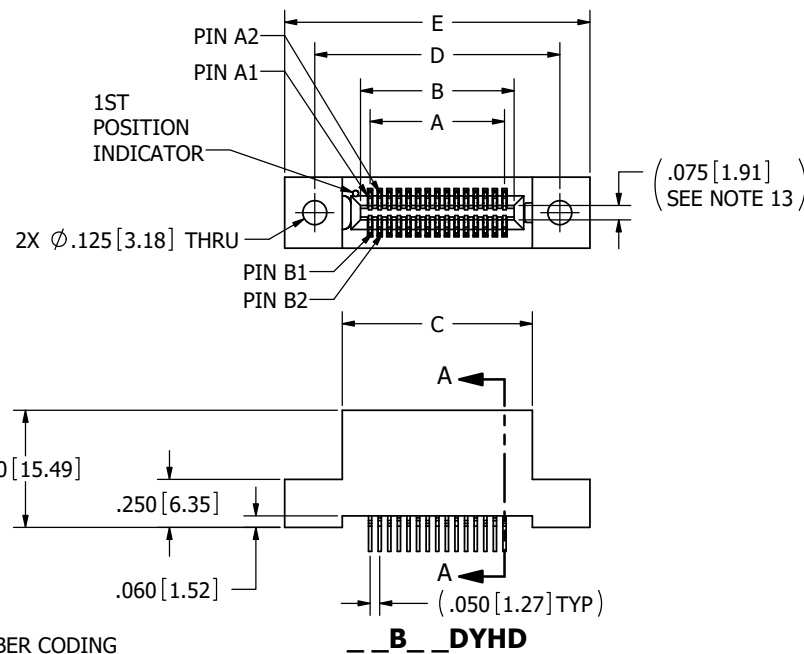
TERMINATION

.000100" PURE TIN, MATTE

.000100" PURE TIN, MATTE

.000100" PURE TIN, MATTE

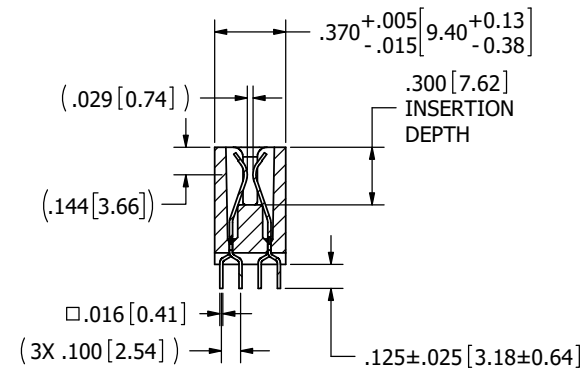
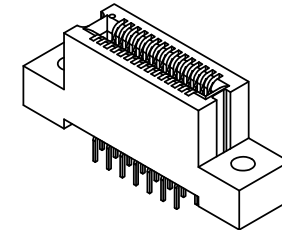
.000010" GOLD OVERALL



NOTES:

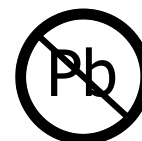
1. INSULATOR MATERIAL: SEE PART NUMBER CODING
2. CONTACT MATERIAL: SEE PART NUMBER CODING
3. PLATING: SEE PART NUMBER CODING
4. OPERATING TEMPERATURE: SEE PART NUMBER CODING
5. PROCESSING TEMP: SEE PART NUMBER CODING
6. UL FLAMMABILITY RATING: 94V-0
7. OPERATING VOLTAGE: 300 VAC
8. CURRENT RATING: 1 AMP
9. CONTACT RESISTANCE: 30 MILLI OHMS MAX
10. INSULATION RESISTANCE: 5000 MEGA OHM
11. DURABILITY: 5000 CYCLES MINIMUM
12. CONNECTOR IDENTIFICATION: THE PART SHALL BE MARKED WITH A PART NUMBER AND LOT CODE
13. BOARD THICKNESS ACCOMMODATED: .062 ± .008 [1.57 ± 0.20]
14. INSERTION FORCE: 6 OZ MAX PER CONTACT PAIR WHEN USING A .062 [1.57] TEST BLADE
INTERNAL INSPECTION TO BE PER SULLINS WORK INSTRUCTION WI-8.6-03
15. WITHDRAWAL FORCE: 1/2 OZ MINIMUM PER CONTACT PAIR USING .062 [1.57] TEST BLADE
16. MODIFICATION: SEE PART NUMBER CODING

REVISIONS				
REV.	ECO. NO	DESCRIPTION	DATE	BY
F	4614	ADD 'X' MATERIAL, INCREASE CONTACT SURFACE RADIUS BIGGER	1/5/2023	JH
H	4626	UPDATE NOTE 11 (WAS '500 CYCLES'), UPDATE NOTE 8 (REMOVE 'PER CONTACT')	2/8/2023	MM
J	4668	REMOVE 'X' MATERIAL	5/11/2023	JH



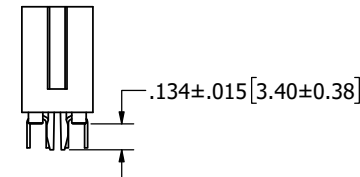
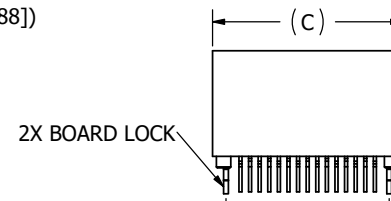
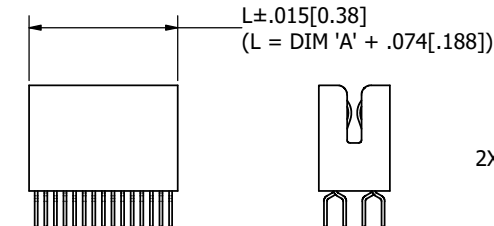
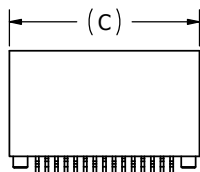
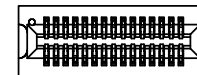
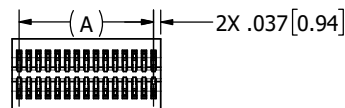
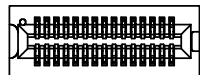
SECTION A-A

CUSTOMER COPY



RoHS COMPLIANT

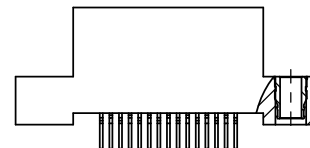
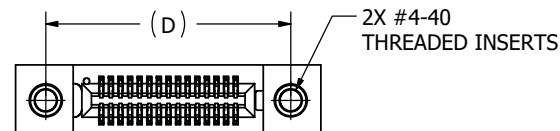
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [MM]		DRAWN	DATE	NAME		
TOLERANCES:			06/18/10	TT		
ANGULAR: ± 1°		THE INFORMATION HEREIN CONTAINS PROPRIETARY INFORMATION OF SULLINS ELECTRONICS AND IS NOT TO BE REPRODUCED, USED OR DISCLOSED TO OTHERS FOR ANY PURPOSE EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY AN OFFICER OF SULLINS ELECTRONICS.				TITLE EDGE CARD, .050" CC, CANTILEVER
DECIMALS .XX = ± .02 [5] .XXX = ± .005 [13] .XXXX = ± .0005 [013]						PART NUMBER B DYH S
				SIZE C		CAGE CODE 54453
				DWG. NO. C11419		REV J
				SCALE: 2:1		SHEET 1 OF 3



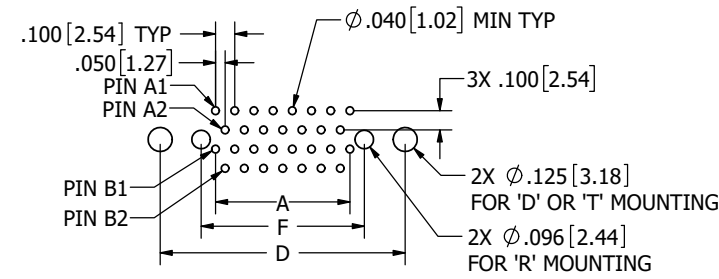
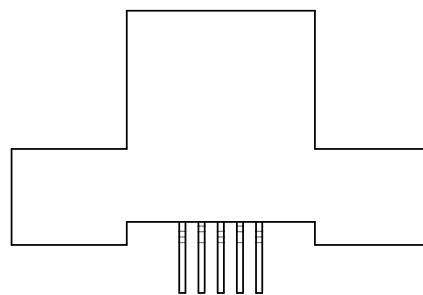
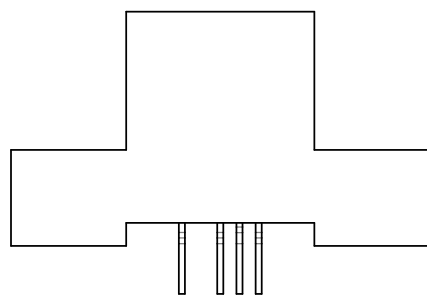
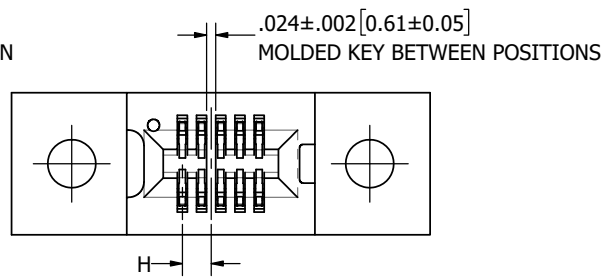
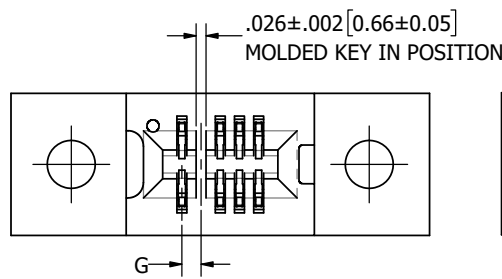
__B__DYHN

__B__DYHB

__B__DYHR



__B__DYHT



RECOMMENDED PCB LAYOUT

CUSTOMER COPY

S# MODIFICATION
('D' MOUNT AS SHOWN FOR EXAMPLE, SCALE 4:1)



RoHS COMPLIANT

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [MM]		DRAWN	DATE	NAME		
TOLERANCES:			06/18/10	TT		
ANGULAR: ± 1°		THE INFORMATION HEREIN CONTAINS PROPRIETARY INFORMATION OF SULLINS ELECTRONICS AND IS NOT TO BE REPRODUCED, USED OR DISCLOSED TO OTHERS FOR ANY PURPOSE EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY AN OFFICER OF SULLINS ELECTRONICS.				TITLE
DECIMALS .XX = ± .02 [5] .XXX = ± .005 [13] .XXXX = ± .0005 [13]						PART NUMBER
						__B__DYH -S__
						SIZE
						CAGE CODE
						DWG. NO.
						REV
						SCALE: 2:1
						SHEET 2 OF 3

PART NUMBER	NO OF POS.	A ±.005[0.13]		B ±.005[0.13]		C ±.015[0.38]		D ±.010[0.25]		E ±.020[0.51]		F ±.010[0.25]	
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
B05DYH	5	0.200	5.08	0.300	7.62	0.490	12.45	0.776	19.71	1.090	27.69	0.350	8.89
B06DYH	6	0.250	6.35	0.350	8.89	0.540	13.72	0.826	20.98	1.140	28.96	0.400	10.16
B07DYH	7	0.300	7.62	0.400	10.16	0.590	14.99	0.876	22.25	1.190	30.23	0.450	11.43
B08DYH	8	0.350	8.89	0.450	11.43	0.640	16.26	0.926	23.52	1.240	31.50	0.500	12.70
B09DYH	9	0.400	10.16	0.500	12.70	0.690	17.53	0.976	24.79	1.290	32.77	0.550	13.97
B10DYH	10	0.450	11.43	0.550	13.97	0.740	18.80	1.026	26.06	1.340	34.04	0.600	15.24
B11DYH	11	0.500	12.7	0.600	15.24	0.790	20.07	1.076	27.33	1.390	35.31	0.650	16.51
B12DYH	12	0.550	13.97	0.650	16.51	0.840	21.34	1.126	28.60	1.440	36.58	0.700	17.78
B13DYH	13	0.600	15.24	0.700	17.78	0.890	22.61	1.176	29.87	1.490	37.85	0.750	19.05
B14DYH	14	0.650	16.51	0.750	19.05	0.940	23.88	1.226	31.14	1.540	39.12	0.800	20.32
B15DYH	15	0.700	17.78	0.800	20.32	0.990	25.15	1.276	32.41	1.590	40.39	0.850	21.59
B16DYH	16	0.750	19.05	0.850	21.59	1.040	26.42	1.326	33.68	1.640	41.66	0.900	22.86
B17DYH	17	0.800	20.32	0.900	22.86	1.090	27.69	1.376	34.95	1.690	42.93	0.950	24.13
B18DYH	18	0.850	21.59	0.950	24.13	1.140	28.96	1.426	36.22	1.740	44.20	1.000	25.40
B19DYH	19	0.900	22.86	1.000	25.40	1.190	30.23	1.476	37.49	1.790	45.47	1.050	26.67
B20DYH	20	0.950	24.13	1.050	26.67	1.240	31.50	1.526	38.76	1.840	46.74	1.100	27.94
B21DYH	21	1.000	25.4	1.100	27.94	1.290	32.77	1.576	40.03	1.890	48.01	1.150	29.21
B22DYH	22	1.050	26.67	1.150	29.21	1.340	34.04	1.626	41.30	1.940	49.28	1.200	30.48
B23DYH	23	1.100	27.94	1.200	30.48	1.390	35.31	1.676	42.57	1.990	50.55	1.250	31.75
B24DYH	24	1.150	29.21	1.250	31.75	1.440	36.58	1.726	43.84	2.040	51.82	1.300	33.02
B25DYH	25	1.200	30.48	1.300	33.02	1.490	37.85	1.776	45.11	2.090	53.09	1.350	34.29
B26DYH	26	1.250	31.75	1.350	34.29	1.540	39.12	1.826	46.38	2.140	54.36	1.400	35.56
B27DYH	27	1.300	33.02	1.400	35.56	1.590	40.39	1.876	47.65	2.190	55.63	1.450	36.83
B28DYH	28	1.350	34.29	1.450	36.83	1.640	41.66	1.926	48.92	2.240	56.90	1.500	38.10
B29DYH	29	1.400	35.56	1.500	38.10	1.690	42.93	1.976	50.19	2.290	58.17	1.550	39.37
B30DYH	30	1.450	36.83	1.550	39.37	1.740	44.20	2.026	51.46	2.340	59.44	1.600	40.64
B31DYH	31	1.500	38.1	1.600	40.64	1.790	45.47	2.076	52.73	2.390	60.71	1.650	41.91
B32DYH	32	1.550	39.37	1.650	41.91	1.840	46.74	2.126	54.00	2.440	61.98	1.700	43.18
B33DYH	33	1.600	40.64	1.700	43.18	1.890	48.01	2.176	55.27	2.490	63.25	1.750	44.45
B34DYH	34	1.650	41.91	1.750	44.45	1.940	49.28	2.226	56.54	2.540	64.52	1.800	45.72
B35DYH	35	1.700	43.18	1.800	45.72	1.990	50.55	2.276	57.81	2.590	65.79	1.850	46.99
B36DYH	36	1.750	44.45	1.850	46.99	2.040	51.82	2.326	59.08	2.640	67.06	1.900	48.26
B37DYH	37	1.800	45.72	1.900	48.26	2.090	53.09	2.376	60.35	2.690	68.33	1.950	49.53
B38DYH	38	1.850	46.99	1.950	49.53	2.140	54.36	2.426	61.62	2.740	69.60	2.000	50.80
B39DYH	39	1.900	48.26	2.000	50.80	2.190	55.63	2.476	62.89	2.790	70.87	2.050	52.07
B40DYH	40	1.950	49.53	2.050	52.07	2.240	56.90	2.526	64.16	2.840	72.14	2.100	53.34
B41DYH	41	2.000	50.8	2.100	53.34	2.290	58.17	2.576	65.43	2.890	73.41	2.150	54.61
B42DYH	42	2.050	52.07	2.150	54.61	2.340	59.44	2.626	66.70	2.940	74.68	2.200	55.88
B43DYH	43	2.100	53.34	2.200	55.88	2.390	60.71	2.676	67.97	2.990	75.95	2.250	57.15
B44DYH	44	2.150	54.61	2.250	57.15	2.440	61.98	2.726	69.24	3.040	77.22	2.300	58.42
B45DYH	45	2.200	55.88	2.300	58.42	2.490	63.25	2.776	70.51	3.090	78.49	2.350	59.69
B46DYH	46	2.250	57.15	2.350	59.69	2.540	64.52	2.826	71.78	3.140	79.76	2.400	60.96
B47DYH	47	2.300	58.42	2.400	60.96	2.590	65.79	2.876	73.05	3.190	81.03	2.450	62.23
B48DYH	48	2.350	59.69	2.450	62.23	2.640	67.06	2.926	74.32	3.240	82.30	2.500	63.50
B49DYH	49	2.400	60.96	2.500	63.50	2.690	68.33	2.976	75.59	3.290	83.57	2.550	64.77
B50DYH	50	2.450	62.23	2.550	64.77	2.740	69.60	3.026	76.86	3.340	84.84	2.600	66.04
B51DYH	51	2.500	63.5	2.600	66.04	2.790	70.87	3.076	78.13	3.390	86.11	2.650	67.31
B52DYH	52	2.550	64.77	2.650	67.31	2.840	72.14	3.126	79.40	3.440	87.38	2.700	68.58
B53DYH	53	2.600	66.04	2.700	68.58	2.890	73.41	3.176	80.67	3.490	88.65	2.750	69.85
B54DYH	54	2.650	67.31	2.750	69.85	2.940	74.68	3.226	81.94	3.540	89.92	2.800	71.12
B55DYH	55	2.700	68.58	2.800	71.12	2.990	75.95	3.276	83.21	3.590	91.19	2.850	72.39
B56DYH	56	2.750	69.85	2.850	72.39	3.040	77.22	3.326	84.48	3.640	92.46	2.900	73.66
B57DYH	57	2.800	71.12	2.900	73.66	3.090	78.49	3.376	85.75	3.690	93.73	2.950	74.93
B58DYH	58	2.850	72.39	2.950	74.93	3.140	79.76	3.426	87.02	3.740	95.00	3.000	76.20
B59DYH	59	2.900	73.66	3.000	76.20	3.190	81.03	3.476	88.29	3.790	96.27	3.050	77.47
B60DYH	60	2.950	74.93	3.050	77.47	3.240	82.30	3.526	89.56	3.840	97.54	3.100	78.74
B61DYH	61	3.000	76.2	3.100	78.74	3.290	83.57	3.576	90.83	3.890	98.81	3.150	80.01
B62DYH	62	3.050	77.47	3.150	80.01	3.340	84.84	3.626	92.10	3.940	100.08	3.200	81.28

PART NUMBER	NO OF POS.	A±.005[0.13]		B±.005[0.13]		C±.015[0.38]		D±.010[0.25]		E±.020[0.51]		F±.010[0.25]	
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
B63DYH	63	3.100	78.74	3.200	81.28	3.390	86.11	3.676	93.37	3.990	101.35	3.250	82.55
B64DYH	64	3.150	80.01	3.250	82.55	3.440	87.38	3.726	94.64	4.040	102.62	3.300	83.82
B65DYH	65	3.200	81.28	3.300	83.82	3.490	88.65	3.776	95.91	4.090	103.89	3.350	85.09
B66DYH	66	3.250	82.55	3.350	85.09	3.540	89.92	3.826	97.18	4.140	105.16	3.400	86.36
B67DYH	67	3.300	83.82	3.400	86.36	3.590	91.19	3.876	98.45	4.190	106.43	3.450	87.63
B68DYH	68	3.350	85.09	3.450	87.63	3.640	92.46	3.926	99.72	4.240	107.70	3.500	88.90
B69DYH	69	3.400	86.36	3.500	88.90	3.690	93.73	3.976	100.99	4.290	108.97	3.550	90.17
B70DYH	70	3.450	87.63	3.550	90.17	3.740	95.00	4.026	102.26	4.340	110.24	3.600	91.44
B71DYH	71	3.500	88.90	3.600	91.44	3.790	96.27	4.076	103.53	4.390	111.51	3.650	92.71
B72DYH	72	3.550	90.17	3.650	92.71	3.840	97.54	4.126	104.80	4.440	112.78	3.700	93.98
B73DYH	73	3.600	91.44	3.700	93.98	3.890	98.81	4.176	106.07	4.490	114.05	3.750	95.25
B74DYH	74	3.650	92.71	3.750	95.25	3.940	100.08	4.226	107.34	4.540	115.32	3.800	96.52
B75DYH	75	3.700	93.98	3.800	96.52	3.990	101.35	4.276	108.61	4.590	116.59	3.850	97.79
B76DYH	76	3.750	95.25	3.850	97.79	4.040	102.62	4.326	109.88	4.640	117.86	3.900	99.06
B77DYH	77	3.800	96.52	3.900	99.06	4.090	103.89	4.376	111.15	4.690	119.13	3.950	100.33
B78DYH	78	3.850	97.79	3.950	100.33	4.140	105.16	4.426	112.42	4.740	120.40	4.000	101.60
B79DYH	79	3.900	99.06	4.000	101.60	4.190	106.43	4.476	113.69	4.790	121.67	4.050	102.87
B80DYH	80	3.950	100.33	4.050	102.87	4.240	107.70	4.526	114.96	4.840	122.94	4.100	104.14
B81DYH	81	4.000	101.60	4.100	104.14	4.290	108.97	4.576	116.23	4.890	124.21	4.150	105.41
B82DYH	82	4.050	102.87	4.150	105.41	4.340	110.24	4.626	117.50	4.940	125.48	4.200	106.68
B83DYH	83	4.100	104.14	4.200	106.68	4.390	111.51	4.676	118.77	4.990	126.75	4.250	107.95
B84DYH	84	4.150	105.41	4.250	107.95	4.440	112.78	4.726	120.04	5.040	128.02	4.300	109.22
B85DYH	85	4.200	106.68	4.300	109.22	4.490	114.05	4.776	121.31	5.090	129.29	4.350	110.49
B86DYH	86	4.250	107.95	4.350	110.49	4.540	115.32	4.826	122.58	5.140	130.56	4.400	111.76
B87DYH	87	4.300	109.22	4.400	111.76	4.590	116.59	4.876	123.85	5.190	131.83	4.450	113.03
B88DYH	88	4.350	110.49	4.450	113.03	4.640	117.86	4.926	125.12	5.240	133.10	4.500	114.30
B89DYH	89	4.400	111.76	4.500	114.30	4.690	119.13	4.976	126.39	5.290	134.37	4.550	115.57
B90DYH	90	4.450	113.03	4.550	115.57	4.740	120.40	5.026	127.66	5.340	135.64	4.600	116.84
B91DYH	91	4.500	114.30	4.600	116.84	4.790	121.67	5.076	128.93	5.390	136.91	4.650	118.11
B92DYH	92	4.550	115.57	4.650	118.11	4.840	122.94	5.126	130.20	5.440	138.18	4.700	119.38
B93DYH	93	4.600	116.84	4.700	119.38	4.890	124.21	5.176	131.47	5.490	139.45	4.750	120.65
B94DYH	94	4.650	118.11	4.750	120.65	4.940	125.48	5.226	132.74	5.540	140.72	4.800	121.92
B95DYH	95	4.700	119.38	4.800	121.92	4.990	126.75	5.276	134.01	5.590	141.99	4.850	123.19
B96DYH	96	4.750	120.65	4.850	123.19	5.040	128.02	5.326	135.28	5.640	143.26	4.900	124.46
B97DYH	97	4.800	121.92	4.900	124.46	5.090	129.29	5.376	136.55	5.690	144.53	4.950	125.73
B98DYH	98	4.850	123.19	4.950	125.73	5.140	130.56	5.426	137.82	5.740	145.80	5.000	127.00
B99DYH	99	4.900	124.46	5.000	127.00	5.190	131.83	5.476	139.09	5.790	147.07	5.050	128.27
B100DYH	100	4.950	125.73	5.050	128.27	5.240	133.10	5.526	140.36	5.840	148.34	5.100	129.54
B101DYH	101	5.000	127.00	5.100	129.54	5.290	134.37	5.576	141.63	5.890	149.61	5.150	130.81
B102DYH	102	5.050	128.27	5.150	130.81	5.340	135.64	5.626	142.90	5.940	150.88	5.200	132.08
B103DYH	103	5.100	129.54	5.200	132.08	5.390	136.91	5.676	144.17	5.990	152.15	5.250	133.35
B104DYH	104	5.150	130.81	5.250	133.35	5.440	138.18	5.726	145.44	6.040	153.42	5.300	134.62
B105DYH	105	5.200	132.08	5.300	134.62	5.490	139.45	5.776	146.71	6.090	154.69	5.350	135.89
B106DYH	106	5.250	133.35	5.350	135.89	5.540	140.72	5.826	147.98	6.140	155.96	5.400	137.16
B107DYH	107	5.300	134.62	5.400	137.16	5.590	141.99	5.876	149.25	6.190	157.23	5.450	138.43
B108DYH	108	5.350	135.89	5.450	138.43	5.640	143.26	5.926	150.52	6.240	158.50	5.500	139.70
B109DYH	109	5.400	137.16	5.500	139.70	5.690	144.53	5.976	151.79	6.290	159.77	5.550	140.97
B110DYH	110	5.450	138.43	5.550	140.97	5.740	145.80	6.026	153.06	6.340	161.04	5.600	142.24
B111DYH	111	5.500	139.70	5.600	142.24	5.790	147.07					5.650	143.51
B112DYH	112	5.550	140.97	5.650	143.51	5.840	148.34					5.700	144.78
B113DYH	113	5.600	142.24	5.700	144.78	5.890	149.61					5.750	146.05
B114DYH	114	5.650	143.51	5.750	146.05	5.940	150.88					5.800	147.32
B115DYH	115	5.700	144.78	5.800	147.32	5.990	152.15					5.850	148.59
B116DYH	116	5.750	146.05	5.850	148.59	6.040	153.42					5.900	149.86
B117DYH	117	5.800	147.32	5.900	149.86	6.090	154.69					5.950	151.13
B118DYH	118	5.850	148.59	5.950	151.13	6.140	155.96					6.000	152.40
B119DYH	119	5.900	149.86	6.000	152.40	6.190	157.23					6.050	153.67
B120DYH	120	5.950	151.13	6.050	153.67	6.240	158.50					6.100	154.94