

NOTES :

1. MATERIAL:-

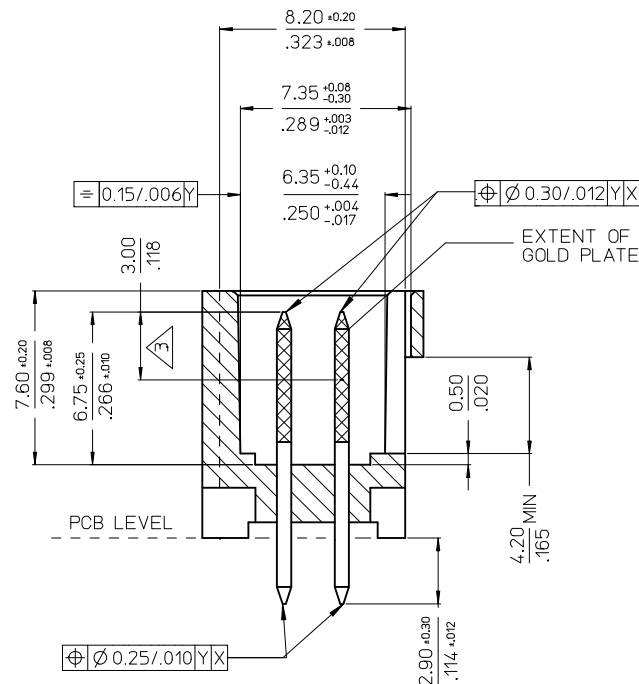
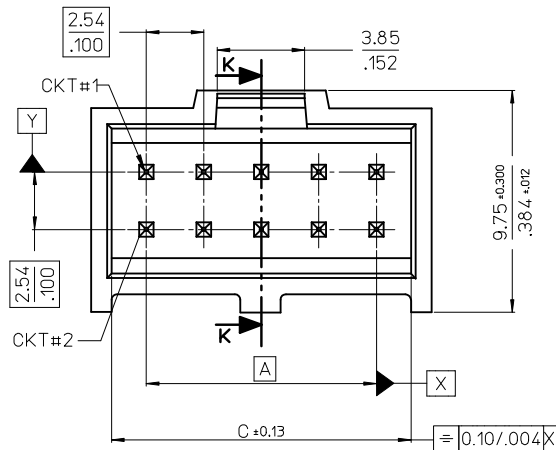
- PIN:- (0.65)/.0255 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS AND VOID VERSIONS SEE SHEET 2.

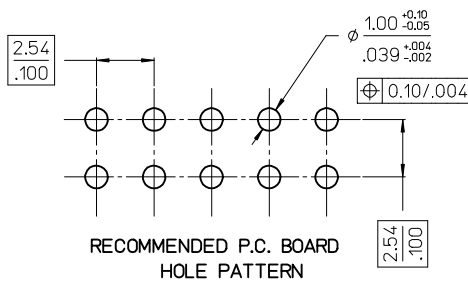
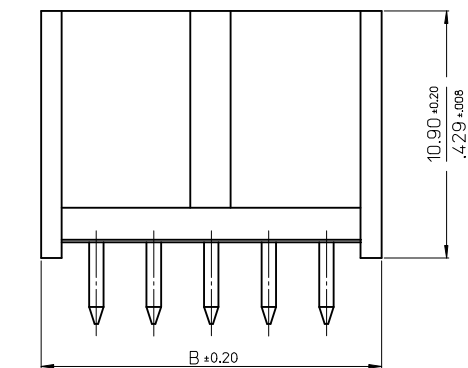
3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.

4. FOR PRODUCT SPEC SEE PS-99020-0001

5. RECOMMENDED PCB THICKNESS: 1.60mm



SECTION K-K

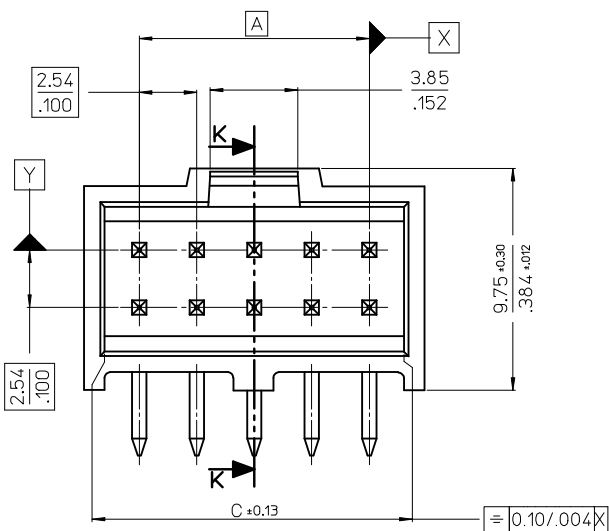


RECOMMENDED P.C. BOARD
HOLE PATTERN

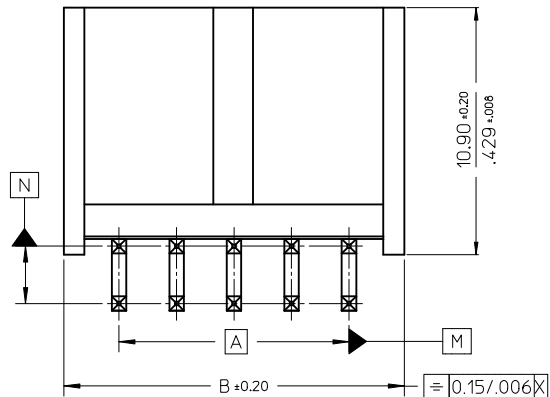
CKT	DIM A	DIM B	DIM C
6	(5.08)/.200	(9.96)/.392	(8.12)/.320
8	(7.62)/.300	(12.50)/.492	(10.66)/.420
10	(10.16)/.400	(15.04)/.592	(13.20)/.520
12	(12.70)/.500	(17.58)/.692	(15.74)/.620
14	(15.24)/.600	(20.12)/.792	(18.28)/.720
16	(17.78)/.700	(22.66)/.892	(20.82)/.820
18	(20.32)/.800	(25.20)/.992	(23.36)/.920
20	(22.86)/.900	(27.74)/.1092	(25.90)/.1020
22	(25.40)/.1000	(30.28)/.1192	(28.44)/.1120
24	(27.94)/.1100	(32.82)/.1292	(30.98)/.1220
26	(30.48)/.1200	(35.36)/.1392	(33.52)/.1320
28	(33.02)/.1300	(37.90)/.1492	(36.06)/.1420
30	(35.56)/.1400	(40.44)/.1592	(38.60)/.1520
32	(38.10)/.1500	(42.98)/.1692	(41.15)/.1620
34	(40.64)/.1600	(45.52)/.1792	(43.68)/.1720
36	(43.18)/.1700	(48.06)/.1892	(46.22)/.1820
38	(45.72)/.1800	(50.60)/.1992	(48.76)/.1920
40	(48.26)/.1900	(53.14)/.2092	(51.30)/.2020
42	(50.80)/.2000	(55.68)/.2192	(53.84)/.2120
44	(53.34)/.2100	(58.22)/.2292	(56.38)/.2220
46	(55.88)/.2200	(60.76)/.2392	(58.92)/.2320
48	(58.42)/.2300	(63.30)/.2492	(61.46)/.2420
50	(60.96)/.2400	(65.84)/.2592	(64.00)/.2520
52	(63.50)/.2500	(68.38)/.2692	(66.54)/.2620
54	(66.04)/.2600	(70.92)/.2792	(69.08)/.2720
56	(68.58)/.2700	(73.46)/.2892	(71.62)/.2820
58	(71.12)/.2800	(76.00)/.2992	(74.16)/.2920
60	(73.66)/.2900	(78.54)/.3092	(76.70)/.3020
62	(76.20)/.3000	(81.08)/.3192	(79.24)/.3120
64	(78.74)/.3100	(83.62)/.3292	(81.78)/.3220
66	(81.28)/.3200	(86.16)/.3392	(84.32)/.3320
68	(83.82)/.3300	(88.70)/.3492	(86.86)/.3420

ADD DATUMS		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO:	REV	DESCRIPTION	REV	mm	INCH	MM/IN	NTS	INCH	NTS	INCH	NTS	INCH	NTS
S2015-0152	CA2	DRWN:ATSEE		4 PLACES	± ---	± ---	DRAWN BY	DATE	KS	1988/08/23	TITLE	C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED	
2014/08/18		CHKD:FANNYONG		3 PLACES	± ---	± .004	CHECKED BY	DATE	ATSEE	2010/02/11			
2014/08/19		APPR:LBLEE		2 PLACES	± 0.10	± ---	APPROVED BY	DATE	MLONG	2010/02/19			
				1 PLACE	± ---	± ---	MATERIAL NO.						
				ANGULAR ±1/2°		SEE TABLE		DOCUMENT NO.		SDA-90130		SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						1 OF 4	

	10	9	8	7	6	5	4	3	2	1	
VERSION FULLY LOADED											
F	NO OF CKTS	HSG CKT SIZE	PART NUMBER				NOTES : 1. FOR ASSEMBLY, SEE SHEET 1. 2. REFER TO LEGEND FOR PLATING OPTIONS.				
			PLATING TYPE A	PLATING TYPE E	PLATING TYPE F	PLATING TYPE G					
	6	6	90130-X106	90130-X206	90130-X306	90130-X406	90130 - * * * *				
	8	8	X108	X208	X308	X408					
	10	10	X110	X210	X310	X410	PLATING TYPES				
	12	12	X112	X212	X312	X412					
	14	14	X114	X214	X314	X414	STYLE: - 1. STRAIGHT PIN VERSION 8. VERSION WITH VOIDS				
	16	16	X116	X216	X316	X416					
E	18	18	X118	X218	X318	X418	1 - TYPE A: 3.04µm MIN. TIN OVER 1.27µm - 2.54µm NICKEL.				
	20	20	X120	X220	X320	X420					
	22	22	X122	X222	X322	X422	2 - TYPE E: 0.38µm MIN. GOLD IN SELECTED AREA & 3.04µm MIN. TIN IN SELECTED AREA OVER 1.3µm MIN. NICKEL OVERALL.				
	24	24	X124	X224	X324	X424					
	26	26	X126	X226	X326	X426	3 - TYPE F: 0.76µm MIN. GOLD IN SELECTED AREA. & 3.04µm MIN. TIN IN SELECTED AREA OVER 1.3µm MIN. NICKEL OVERALL.				
	28	28	X128	X228	X328	X428					
	30	30	X130	X230	X330	X430	4 - TYPE G: 0.05 -0.10µm GOLD FLASH IN SELECTED AREA & 3.04µm MIN. TIN IN SELECTED AREA OVER 1.3µm MIN. NICKEL OVERALL.				
	32	32	X132	X232	X332	X432					
D	34	34	X134	X234	X334	X434	VOIDED OPTIONS				
	36	36	X136	X236	X336	X436					
	38	38	X138	X238	X338	X438	NO OF CKTS HSG CKT SIZE VOIDED PART NUMBER VOID POSITION PLATING TYPE				
	40	40	X140	X240	X340	X440					
	42	42	X142	X242	X342	X442	9	10	90130-8190	3	A
	44	44	X144	X244	X344	X444	9	10	90130-8309	2	F
	46	46	X146	X246	X346	X446	9	10	90130-8311	1	F
C	48	48	X148	X248	X348	X448	11	12	90130-8212	12	E
	50	50	X150	X250	X350	X450	11	12	90130-8213	2	E
	52	52	X152	X252	X352	X452	11	12	90130-8313	2	F
	54	54	X154	X254	X354	X454	11	12	90130-8191	3	A
	56	56	X156	X256	X356	X456	ADD DATUMS EC NO: S2015-0152 DRN:ATSEE CHKD:FANNYONG APPR:BLEE CA2				
	58	58	X158	X258	X358	X458					
	60	60	X160	X260	X360	X460	QUALITY SYMBOLS F _A =0 F _E =0 F _P =0				
	62	62	X162	X262	X362	X462					
B	64	64	X164	X264	X364	X464	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .004 2 PLACES ± 0.10 ± --- 1 PLACE ± --- ± --- ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
	66	66	X166	X266	X366	X466					
	68	68	90130-X168	90130-X268	90130-X368	90130-X468	DIMENSION STYLE MM/IN DRAWN BY DATE KS 1988/08/23 CHECKED BY DATE ATSEE 2010/02/11 APPROVED BY DATE MLONG 2010/02/19 MATERIAL NO. SEE TABLE				
							SCALE NTS DESIGN UNITS INCH THIRD ANGLE PROJECTION C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED SDA-90130 SHEET NO. 2 OF 4				
A	fb_frame_A3_P_AM_T Rev. F 2009/06/18		9	8	7	6	5	4	3	2	1



VERSION FULLY LOADED



NOTES :

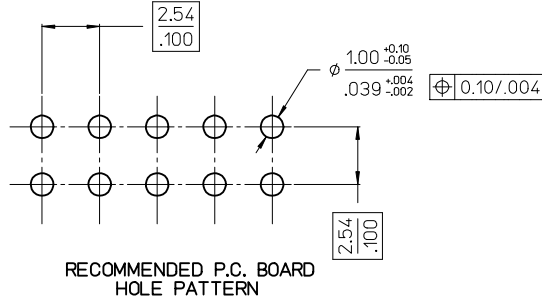
1. MATERIAL:-
- PIN:- (.065)/.0255 SQ. BRASS WIRE.
- HOUSING:- 15% GLASS FILLED POLYESTER
- UL 94 V-0 COLOUR BLACK

2. FOR PLATING VERSIONS AND VOID VERSIONS
SEE SHEET 2.

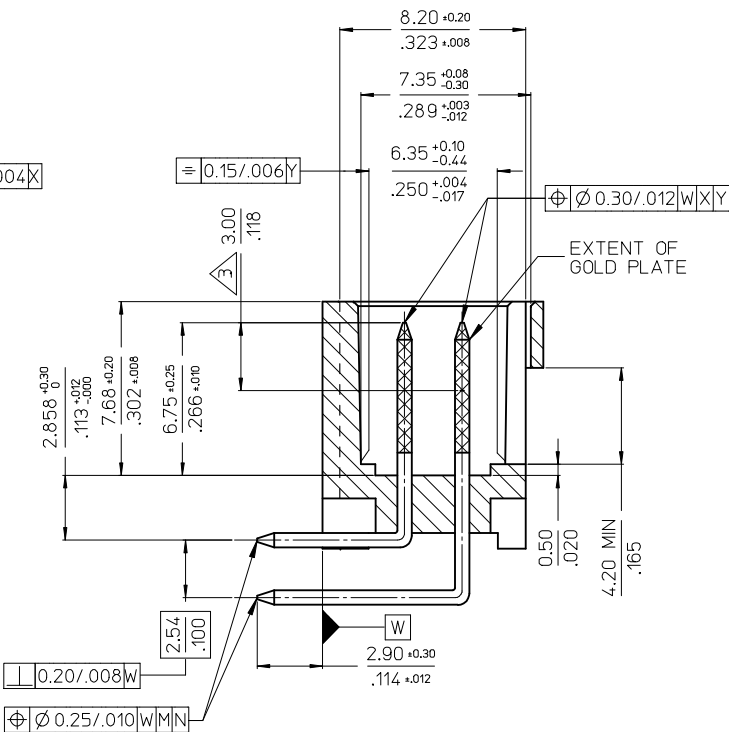
△ MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.

4. FOR PRODUCT SPEC SEE PS-99020-0001

5. RECOMMENDED PCB THICKNESS: 1.60mm



RECOMMENDED P.C. BOARD
HOLE PATTERN



SECTION K-K

CKT	DIM A	DIM B	DIM C
6	(5.08)/ .200	(9.96)/ .392	(8.12)/ .320
8	(7.62)/ .300	(12.50)/ .492	(10.66)/ .420
10	(10.16)/ .400	(15.04)/ .592	(13.20)/ .520
12	(12.70)/ .500	(17.58)/ .692	(15.74)/ .620
14	(15.24)/ .600	(20.12)/ .792	(18.28)/ .720
16	(17.78)/ .700	(22.66)/ .892	(20.82)/ .820
18	(20.32)/ .800	(25.20)/ .992	(23.36)/ .920
20	(22.86)/ .900	(27.74)/ 1.092	(25.90)/ 1.020
22	(25.40)/ 1.000	(30.28)/ 1.192	(28.44)/ 1.120
24	(27.94)/ 1.100	(32.82)/ 1.292	(30.98)/ 1.220
26	(30.48)/ 1.200	(35.36)/ 1.392	(33.52)/ 1.320
28	(33.02)/ 1.300	(37.90)/ 1.492	(36.06)/ 1.420
30	(35.56)/ 1.400	(40.44)/ 1.592	(38.60)/ 1.520
32	(38.10)/ 1.500	(42.98)/ 1.692	(41.15)/ 1.620
34	(40.64)/ 1.600	(45.52)/ 1.792	(43.68)/ 1.720
36	(43.18)/ 1.700	(48.06)/ 1.892	(46.22)/ 1.820
38	(45.72)/ 1.800	(50.60)/ 1.992	(48.76)/ 1.920
40	(48.26)/ 1.900	(53.14)/ 2.092	(51.30)/ 2.020
42	(50.80)/ 2.000	(55.68)/ 2.192	(53.84)/ 2.120
44	(53.34)/ 2.100	(58.22)/ 2.292	(56.38)/ 2.220
46	(55.88)/ 2.200	(60.76)/ 2.392	(58.92)/ 2.320
48	(58.42)/ 2.300	(63.30)/ 2.492	(61.46)/ 2.420
50	(60.96)/ 2.400	(65.84)/ 2.592	(64.00)/ 2.520
52	(63.50)/ 2.500	(68.38)/ 2.692	(66.54)/ 2.620
54	(66.04)/ 2.600	(70.92)/ 2.792	(69.08)/ 2.720
56	(68.58)/ 2.700	(73.46)/ 2.892	(71.62)/ 2.820
58	(71.12)/ 2.800	(76.00)/ 2.992	(74.16)/ 2.920
60	(73.66)/ 2.900	(78.54)/ 3.092	(76.70)/ 3.020
62	(76.20)/ 3.000	(81.08)/ 3.192	(79.24)/ 3.120
64	(78.74)/ 3.100	(83.62)/ 3.292	(81.78)/ 3.220
66	(81.28)/ 3.200	(86.16)/ 3.392	(84.32)/ 3.320
68	(83.82)/ 3.300	(88.70)/ 3.492	(86.86)/ 3.420

ADD DATUMS EC NO: S2015-0152 DRWN:ATSEE CHKD:FANNY WONG APPR: LBLEE	2014/08/18 2014/08/18 2014/08/19	DESCRIPTION REV	QUALITY SYMBOLS F =0 F =0 F =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY	DATE	TITLE C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER						
				4 PLACES	± ---	± ---	KS							1988/08/23
				3 PLACES	± ---	± .004	CHECKED BY	DATE	MOLEX INCORPORATED					
				2 PLACES	± 0.10	± ---	ATSEE	2010/02/11						
				1 PLACE	± ---	± ---	APPROVED BY	DATE	DOCUMENT NO. SDA-90130					
				ANGULAR ±1/2°		MLONG	2010/02/19							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO. SEE TABLE		SHEET NO. 3 OF 4								
CA2		REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

	10	9	8	7	6	5	4	3	2	1				
	VERSION FULLY LOADED				NOTES : 1. FOR ASSEMBLY, SEE SHEET 1. 2. REFER TO LEGEND FOR PLATING OPTIONS 90130 - * * * INDICATES CIRCUIT HOUSING SIZE PLATING TYPES STYLE: - 3. RIGHT ANGLE VERSION 1 - TYPE A: 3.0µm MIN. TIN OVER 1.27µm - 2.54µm NICKEL. 2 - TYPE E: 0.38µm MIN. GOLD IN SELECTED AREA & 3.0µm MIN. TIN IN SELECTED AREA OVER 1.3µm MIN. NICKEL OVERALL. 3 - TYPE F: 0.76µm MIN. GOLD IN SELECTED AREA & 3.0µm MIN. TIN IN SELECTED AREA OVER 1.3µm MIN. NICKEL OVERALL. 4 - TYPE G 0.05-0.10µm GOLD FLASH IN SELECTED AREA & 3.0µm MIN. TIN IN SELECTED AREA OVER 1.3µm MIN. NICKEL OVERALL.									
F	NO OF CKTS	HSG CKT SIZE	PART NUMBER											
			PLATING TYPE A	PLATING TYPE E								PLATING TYPE F	PLATING TYPE G	
	6	6	90130-X106	90130-X206								90130-X306	90130-X406	
	8	8	X108	X208								X308	X408	
	10	10	X110	X210								X310	X410	
	12	12	X112	X212								X312	X412	
	14	14	X114	X214								X314	X414	
	16	16	X116	X216								X316	X416	
E	18	18	X118	X218								X318	X418	
	20	20	X120	X220								X320	X420	
	22	22	X122	X222								X322	X422	
	24	24	X124	X224								X324	X424	
	26	26	X126	X226								X326	X426	
	28	28	X128	X228								X328	X428	
	30	30	X130	X230								X330	X430	
	32	32	X132	X232								X332	X432	
D	34	34	X134	X234								X334	X434	
	36	36	X136	X236								X336	X436	
	38	38	X138	X238								X338	X438	
	40	40	X140	X240								X340	X440	
	42	42	X142	X242								X342	X442	
	44	44	X144	X244								X344	X444	
	46	46	X146	X246								X346	X446	
	48	48	X148	X248								X348	X448	
C	50	50	X150	X250								X350	X450	
	52	52	X152	X252								X352	X452	
	54	54	X154	X254								X354	X454	
	56	56	X156	X256								X356	X456	
	58	58	X158	X258								X358	X458	
	60	60	X160	X260								X360	X460	
	62	62	X162	X262								X362	X462	
	64	64	X164	X264								X364	X464	
B	66	66	X166	X266								X366	X466	
	68	68	90130-X168	90130-X268								90130-X368	90130-X468	
A	ADD DATUMS EC NO: S2015-0152 DRWN:ATSEE CHKD:FANNY WONG APPR:BLEE 2014/08/18 2014/08/18 2014/08/19				QUALITY SYMBOLS F_A=0 F_E=0 F_P=0		GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .004 2 PLACES ± 0.10 ± --- 1 PLACE ± --- ± --- ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DIMENSION STYLE MM/IN DRAWN BY DATE CHECKED BY DATE APPROVED BY DATE MLONG 2010/02/19		SCALE NTS DESIGN UNITS INCH THIRD ANGLE PROJECTION		C-GRID III DUAL ROW STRAIGHT SHROUDED HEADER MOLEX INCORPORATED SDA-90130 SHEET NO. 4 OF 4	
tb_frame_A3_P_AM_T Rev. F 2009/06/18		9	8	7	6	5	4	3	2	1				