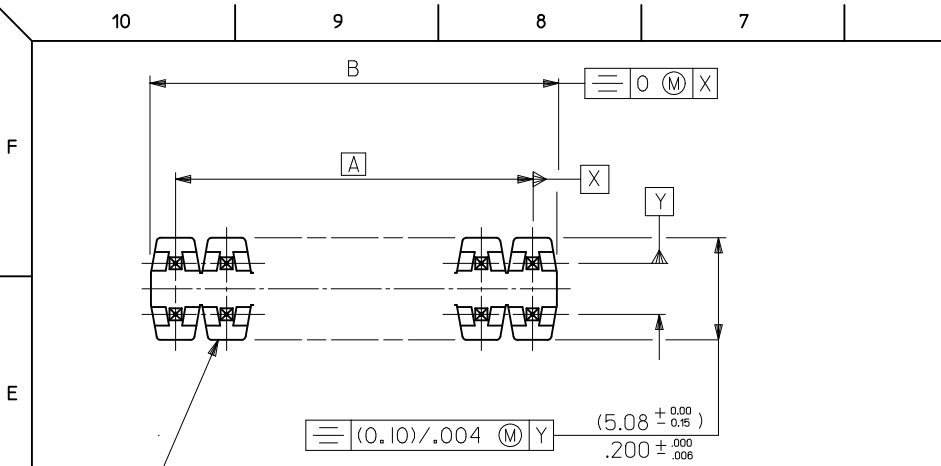
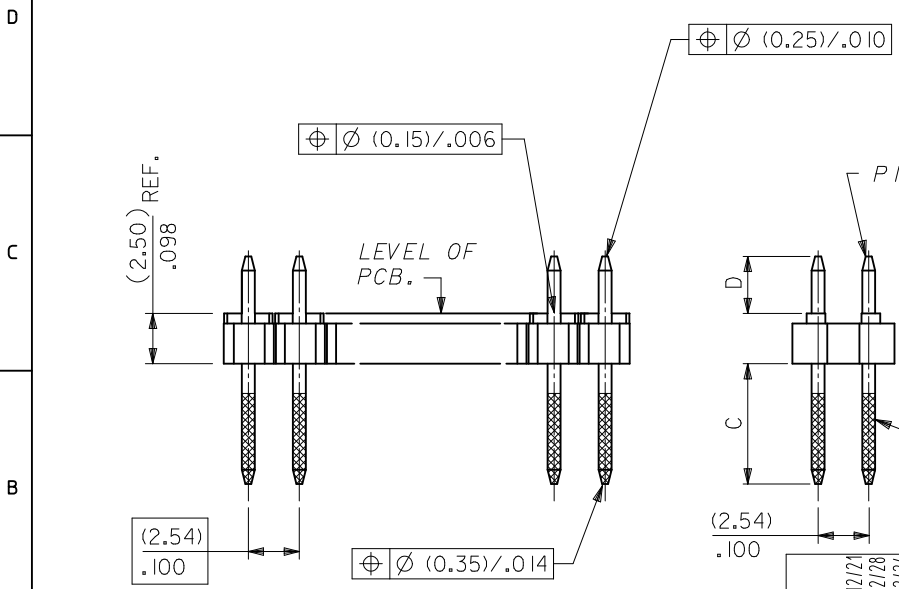
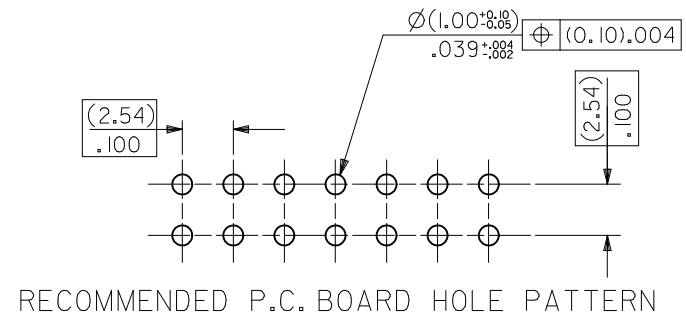




WAFER: 15% GLASS FILLED POLYESTER
TO UL 94V-0.
COLOUR: BLACK.

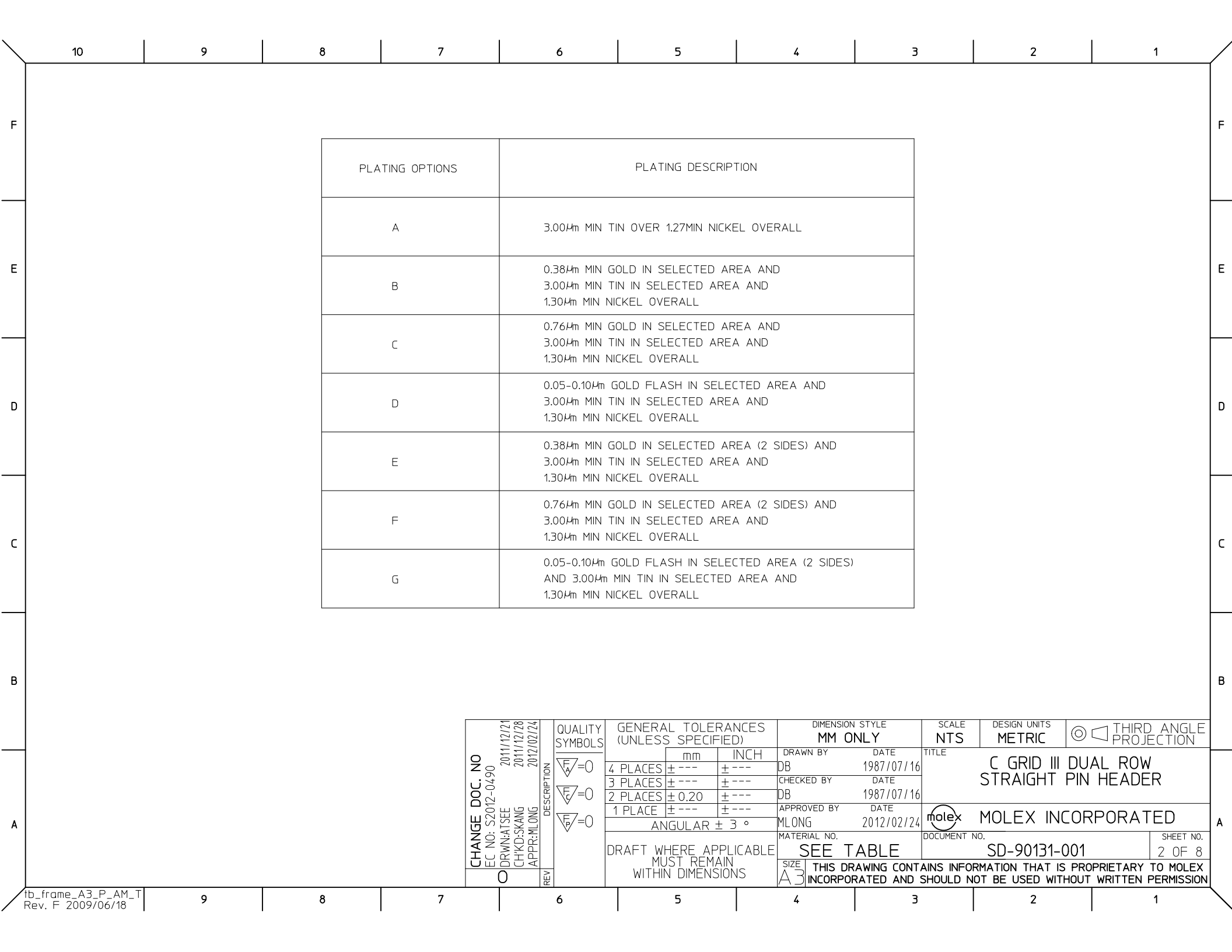


CKT SIZE	DIM. "A"		DIM. "B" ^(+0.20) _{-0.008}		CKT SIZE	DIM. "A"		DIM. "B" ^(+0.20) _{-0.008}	
2X 1			(2.54)	.100	2X21	(50.80)	2.000	(53.34)	2.100
2X 2	(2.54)	.100	(5.08)	.200	2X22	(53.34)	2.100	(55.88)	2.200
2X 3	(5.08)	.200	(7.62)	.300	2X23	(55.88)	2.200	(58.42)	2.300
2X 4	(7.62)	.300	(10.16)	.400	2X24	(58.42)	2.300	(60.96)	2.400
2X 5	(10.16)	.400	(12.70)	.500	2X25	(60.96)	2.400	(63.50)	2.500
2X 6	(12.70)	.500	(15.24)	.600	2X26	(63.50)	2.500	(66.04)	2.600
2X 7	(15.24)	.600	(17.78)	.700	2X27	(66.04)	2.600	(68.58)	2.700
2X 8	(17.78)	.700	(20.32)	.800	2X28	(68.58)	2.700	(71.12)	2.800
2X 9	(20.32)	.800	(22.86)	.900	2X29	(71.12)	2.800	(73.66)	2.900
2X10	(22.86)	.900	(25.40)	1.000	2X30	(73.66)	2.900	(76.20)	3.000
2X11	(25.40)	1.000	(27.94)	1.100	2X31	(76.20)	3.000	(78.74)	3.100
2X12	(27.94)	1.100	(30.48)	1.200	2X32	(78.74)	3.100	(81.28)	3.200
2X13	(30.48)	1.200	(33.02)	1.300	2X33	(81.28)	3.200	(83.82)	3.300
2X14	(33.02)	1.300	(35.56)	1.400	2X34	(83.82)	3.300	(86.36)	3.400
2X15	(35.56)	1.400	(38.10)	1.500	2X35	(86.36)	3.400	(88.90)	3.500
2X16	(38.10)	1.500	(40.64)	1.600	2X36	(88.90)	3.500	(91.44)	3.600
2X17	(40.64)	1.600	(43.18)	1.700	2X37	(91.44)	3.600	(93.98)	3.700
2X18	(43.18)	1.700	(45.72)	1.800	2X38	(93.98)	3.700	(96.52)	3.800
2X19	(45.72)	1.800	(48.26)	1.900	2X39	(96.52)	3.800	(99.06)	3.900
2X20	(48.26)	1.900	(50.80)	2.000	2X40	(99.06)	3.900	(101.60)	4.000



- NOTES
- PLEASE REFER TO SHT 2 FOR PLATING DETAILS.
 - PLEASE REFER TO SHT 3-8 FOR DIMENSIONS C & D.
 - RECOMMENDED PCB THICKNESS 1.60MM
 - PRODUCT SPECIFICATION: PS-99020-0001

CHANGE DOC. NO EC NO: S2012-0490 DRW: NITSE CHKD: SKANG APPR: MLONG 2011/12/24 2011/12/28 2012/02/24	QUALITY SYMBOLS F=0 F=0 F=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY: DB DATE: 1987/07/16		TITLE C GRID III DUAL ROW STRAIGHT PIN HEADER			
		4 PLACES ± ---	± ---	CHECKED BY: DB DATE: 1987/07/16		MOLEX INCORPORATED DOCUMENT NO. SD-90131-001 SHEET NO. 1 OF 8			
		3 PLACES ± ---	± ---	APPROVED BY: MLONG DATE: 2012/02/24					
		2 PLACES ± 0.20 ± ---		MATERIAL NO. SEE TABLE					
		1 PLACE ± --- ± ---		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
		ANGULAR ± 3 °		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



PLATING OPTIONS	PLATING DESCRIPTION
A	3.00µm MIN TIN OVER 1.27MIN NICKEL OVERALL
B	0.38µm MIN GOLD IN SELECTED AREA AND 3.00µm MIN TIN IN SELECTED AREA AND 1.30µm MIN NICKEL OVERALL
C	0.76µm MIN GOLD IN SELECTED AREA AND 3.00µm MIN TIN IN SELECTED AREA AND 1.30µm MIN NICKEL OVERALL
D	0.05-0.10µm GOLD FLASH IN SELECTED AREA AND 3.00µm MIN TIN IN SELECTED AREA AND 1.30µm MIN NICKEL OVERALL
E	0.38µm MIN GOLD IN SELECTED AREA (2 SIDES) AND 3.00µm MIN TIN IN SELECTED AREA AND 1.30µm MIN NICKEL OVERALL
F	0.76µm MIN GOLD IN SELECTED AREA (2 SIDES) AND 3.00µm MIN TIN IN SELECTED AREA AND 1.30µm MIN NICKEL OVERALL
G	0.05-0.10µm GOLD FLASH IN SELECTED AREA (2 SIDES) AND 3.00µm MIN TIN IN SELECTED AREA AND 1.30µm MIN NICKEL OVERALL

CHANGE DOC. NO EC NO: S2012-0490 DRWN:ATSEE 2011/12/21 CHKD:SKANG 2011/12/28 APPR:MLONG 2012/02/24	QUALITY SYMBOLS F _A =0 F _G =0 F _P =0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	DIMENSION STYLE MM ONLY DRAWN BY DATE DB 1987/07/16 CHECKED BY DATE DB 1987/07/16 APPROVED BY DATE MLONG 2012/02/24 MATERIAL NO.	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE C GRID III DUAL ROW STRAIGHT PIN HEADER
O	REV	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	DOCUMENT NO. SD-90131-001	SHEET NO. 2 OF 8	MOLEX INCORPORATED

10		9		8		7		6		5		4		3		2		1		
F		CIRCUIT SIZE	PLATING TYPE A PART NO.	PLATING TYPE E PART NO.	PLATING TYPE F PART NO.															F
		2 X 1	90131-0121	90131-0761	90131-0921															
		2 X 2	▲ -0122	▲ -0762	▲ -0922															
		2 X 3	-0123	-0763	-0923															
		2 X 4	-0124	-0764	-0924															
		2 X 5	-0125	-0765	-0925															
		2 X 6	-0126	-0766	-0926															
		2 X 7	-0127	-0767	-0927															
		2 X 8	-0128	-0768	-0928															
		2 X 9	-0129	-0769	-0929															
E	DIM C (+0.20 ±.008) (6.75) .266	2 X 10	-0130	-0770	-0930															E
		2 X 11	-0131	-0771	-0931															
		2 X 12	-0132	-0772	-0932															
		2 X 13	-0133	-0773	-0933															
		2 X 14	-0134	-0774	-0934															
		2 X 15	-0135	-0775	-0935															
		2 X 16	-0136	-0776	-0936															
		2 X 17	-0137	-0777	-0937															
		2 X 18	-0138	-0778	-0938															
		2 X 19	-0139	-0779	-0939															
D	DIM D (+0.20 0.30 +.008 -.012) (2.90) .114	2 X 20	-0140	-0780	-0940															D
		2 X 21	-0141	-0781	-0941															
		2 X 22	-0142	-0782	-0942															
		2 X 23	-0143	-0783	-0943															
		2 X 24	-0144	-0784	-0944															
		2 X 25	-0145	-0785	-0945															
		2 X 26	-0146	-0786	-0946															
		2 X 27	-0147	-0787	-0947															
		2 X 28	-0148	-0788	-0948															
		2 X 29	-0149	-0789	-0949															
C		2 X 30	-0150	-0790	-0950															C
		2 X 31	-0151	-0791	-0951															
		2 X 32	-0152	-0792	-0952															
		2 X 33	-0153	-0793	-0953															
		2 X 34	-0154	-0794	-0954															
		2 X 35	-0155	-0795	-0955															
		2 X 36	-0156	-0796	-0956															
		2 X 37	-0157	-0797	-0957															
		2 X 38	-0158	-0798	-0958															
		2 X 39	▼ -0159	▼ -0799	▼ -0959															
B		2 X 40	90131-0160	90131-0800	90131-0960															B
A	STANDARD PRODUCTS																			A
fb_frame_A3_P_AM_T Rev. F 2009/06/18		9	8	7	6	5	4	3	2	1										

CHANGE DOC. NO EC NO: S2012-0490 DRWN:ATSEE 2011/12/21 CHKD:SKANG 2011/12/28 APPR:MLONG 2012/02/24 REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
		F=0 F=0 F=0		mm	INCH	DRAWN BY	DATE	C GRID III DUAL ROW STRAIGHT PIN HEADER					
			4 PLACES	± ---	± ---	DB	1987/07/16						
			3 PLACES	± ---	± ---	CHECKED BY	DATE						
			2 PLACES	± 0.20	± ---	DB	1987/07/16						
		1 PLACE	± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED						
		ANGULAR ± 3 °		MLONG	2012/02/24								
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						3 OF 8	

tb_frame_A3_P_AM_T
Rev. F 2009/06/18

		10		9		8		7		6		5		4		3		2		1			
F		CIRCUIT SIZE	PLATING TYPE B		PLATING TYPE C		PLATING TYPE D		PLATING TYPE G		CIRCUIT SIZE	PLATING TYPE B		PLATING TYPE C		PLATING TYPE D		PLATING TYPE G		F			
			PART NO.		PART NO.		PART NO.		PART NO.			PART NO.		PART NO.		PART NO.		PART NO.					
E	DIM C (± 0.20) $\pm .008$ (6.75) .266	2 X 1	90131-0281		90131-0441		90131-0601		90131-1081		2 X 1	90131-0201		90131-0361		90131-0521		90131-1001		E			
		2 X 2	▲ -0282	▲	-0442	▲	-0602	▲	-1082	2 X 2	▲ -0202	▲	-0362	▲	-0522	▲	-1002						
		2 X 3		-0283		-0443		-0603		-1083	2 X 3		-0203		-0363		-0523		-1003				
		2 X 4		-0284		-0444		-0604		-1084	2 X 4		-0204		-0364		-0524		-1004				
		2 X 5		-0285		-0445		-0605		-1085	2 X 5		-0205		-0365		-0525		-1005				
		2 X 6		-0286		-0446		-0606		-1086	2 X 6		-0206		-0366		-0526		-1006				
		2 X 7		-0287		-0447		-0607		-1087	2 X 7		-0207		-0367		-0527		-1007				
		2 X 8		-0288		-0448		-0608		-1088	2 X 8		-0208		-0368		-0528		-1008				
		2 X 9		-0289		-0449		-0609		-1089	2 X 9		-0209		-0369		-0529		-1009				
		2 X 10		-0290		-0450		-0610		-1090	2 X 10		-0210		-0370		-0530		-1010				
D	DIM D (± 0.20) $\pm .008$ (2.90) .114	2 X 11		-0291		-0451		-0611		-1091	2 X 11		-0211		-0371		-0531		-1011	D			
		2 X 12		-0292		-0452		-0612		-1092	2 X 12		-0212		-0372		-0532		-1012				
		2 X 13		-0293		-0453		-0613		-1093	2 X 13		-0213		-0373		-0533		-1013				
		2 X 14		-0294		-0454		-0614		-1094	2 X 14		-0214		-0374		-0534		-1014				
		2 X 15		-0295		-0455		-0615		-1095	2 X 15		-0215		-0375		-0535		-1015				
		2 X 16		-0296		-0456		-0616		-1096	2 X 16		-0216		-0376		-0536		-1016				
		2 X 17		-0297		-0457		-0617		-1097	2 X 17		-0217		-0377		-0537		-1017				
		2 X 18		-0298		-0458		-0618		-1098	2 X 18		-0218		-0378		-0538		-1018				
		2 X 19		-0299		-0459		-0619		-1099	2 X 19		-0219		-0379		-0539		-1019				
		2 X 20		-0300		-0460		-0620		-1100	2 X 20		-0220		-0380		-0540		-1020				
C	DIM D (± 0.20) $\pm .008$ (2.90) .114	2 X 21		-0301		-0461		-0621		-1101	2 X 21		-0221		-0381		-0541		-1021	C			
		2 X 22		-0302		-0462		-0622		-1102	2 X 22		-0222		-0382		-0542		-1022				
		2 X 23		-0303		-0463		-0623		-1103	2 X 23		-0223		-0383		-0543		-1023				
		2 X 24		-0304		-0464		-0624		-1104	2 X 24		-0224		-0384		-0544		-1024				
		2 X 25		-0305		-0465		-0625		-1105	2 X 25		-0225		-0385		-0545		-1025				
		2 X 26		-0306		-0466		-0626		-1106	2 X 26		-0226		-0386		-0546		-1026				
		2 X 27		-0307		-0467		-0627		-1107	2 X 27		-0227		-0387		-0547		-1027				
		2 X 28		-0308		-0468		-0628		-1108	2 X 28		-0228		-0388		-0548		-1028				
		2 X 29		-0309		-0469		-0629		-1109	2 X 29		-0229		-0389		-0549		-1029				
		2 X 30		-0310		-0470		-0630		-1110	2 X 30		-0230		-0390		-0550		-1030				
B	DIM D (± 0.20) $\pm .008$ (2.90) .114	2 X 31		-0311		-0471		-0631		-1111	2 X 31		-0231		-0391		-0551		-1031	B			
		2 X 32		-0312		-0472		-0632		-1112	2 X 32		-0232		-0392		-0552		-1032				
		2 X 33		-0313		-0473		-0633		-1113	2 X 33		-0233		-0393		-0553		-1033				
		2 X 34		-0314		-0474		-0634		-1114	2 X 34		-0234		-0394		-0554		-1034				
		2 X 35		-0315		-0475		-0635		-1115	2 X 35		-0235		-0395		-0555		-1035				
		2 X 36		-0316		-0476		-0636		-1116	2 X 36		-0236		-0396		-0556		-1036				
		2 X 37		-0317		-0477		-0637		-1117	2 X 37		-0237		-0397		-0557		-1037				
		2 X 38		-0318		-0478		-0638		-1118	2 X 38		-0238		-0398		-0558		-1038				
		2 X 39	▼ -0319	▼	-0479	▼	-0639	▼	-1119	2 X 39	▼ -0239	▼	-0399	▼	-0559	▼	-1039						
		2 X 40	90131-0320		90131-0480		90131-0640		90131-1120	2 X 40	90131-0240		90131-0400		90131-0560		90131-1040						

NON-STANDARD PRODUCTS
NOT FOR GENERAL RELEASE

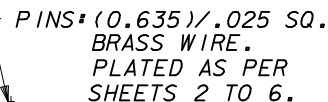
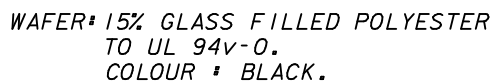
CHANGE DOC. NO EC NO: S2012-0490 DRAWN/AT/SEE CHK'D/SKANG APPR./MLONG 0	2011/12/21 2011/12/28 2012/02/24	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY	DATE	TITLE C GRID III DUAL ROW STRAIGHT PIN HEADER		
				4 PLACES	± ---	± ---	DB	1987/07/16			
				3 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX INCORPORATED		
				2 PLACES	± 0.20	± ---	DB	1987/07/16			
				1 PLACE	± ---	± ---	APPROVED BY	DATE	DOCUMENT NO. SD-90131-001		
				ANGULAR ± 3 °		MLONG	2012/02/24				
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SHEET NO. 6 OF 8			
						SEE TABLE					
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
REV											

10		9		8		7		6		5		4		3		2		1							
F		CIRCUIT SIZE		PLATING TYPE B PART NO.		PLATING TYPE C PART NO.		PLATING TYPE D PART NO.		PLATING TYPE G PART NO.		CIRCUIT SIZE		PLATING TYPE B PART NO.		PLATING TYPE C PART NO.		PLATING TYPE D PART NO.		PLATING TYPE G PART NO.		F			
		2 X 1		90131-0241		90131-0401		90131-0561		90131-1041		2 X 1		90131-0321		90131-0481		90131-0641		90131-1121					
E		2 X 2		↑ -0242		↑ -0402		↑ -0562		↑ -1042		2 X 2		↑ -0322		↑ -0482		↑ -0642		↑ -1122		E			
		2 X 3		-0243		-0403		-0563		-1043		2 X 3		-0323		-0483		-0643		-1123					
		2 X 4		-0244		-0404		-0564		-1044		2 X 4		-0324		-0484		-0644		-1124					
		2 X 5		-0245		-0405		-0565		-1045		2 X 5		-0325		-0485		-0645		-1125					
		2 X 6		-0246		-0406		-0566		-1046		2 X 6		-0326		-0486		-0646		-1126					
		2 X 7		-0247		-0407		-0567		-1047		2 X 7		-0327		-0487		-0647		-1127					
		2 X 8		-0248		-0408		-0568		-1048		2 X 8		-0328		-0488		-0648		-1128					
		2 X 9		-0249		-0409		-0569		-1049		2 X 9		-0329		-0489		-0649		-1129					
		2 X 10		-0250		-0410		-0570		-1050		2 X 10		-0330		-0490		-0650		-1130					
		2 X 11		-0251		-0411		-0571		-1051		2 X 11		-0331		-0491		-0651		-1131					
D		2 X 12		-0252		-0412		-0572		-1052		2 X 12		-0332		-0492		-0652		-1132		D			
		2 X 13		-0253		-0413		-0573		-1053		2 X 13		-0333		-0493		-0653		-1133					
		2 X 14		-0254		-0414		-0574		-1054		2 X 14		-0334		-0494		-0654		-1134					
		2 X 15		-0255		-0415		-0575		-1055		2 X 15		-0335		-0495		-0655		-1135					
		2 X 16		-0256		-0416		-0576		-1056		2 X 16		-0336		-0496		-0656		-1136					
		2 X 17		-0257		-0417		-0577		-1057		2 X 17		-0337		-0497		-0657		-1137					
		2 X 18		-0258		-0418		-0578		-1058		2 X 18		-0338		-0498		-0658		-1138					
		2 X 19		-0259		-0419		-0579		-1059		2 X 19		-0339		-0499		-0659		-1139					
		2 X 20		-0260		-0420		-0580		-1060		2 X 20		-0340		-0500		-0660		-1140					
		2 X 21		-0261		-0421		-0581		-1061		2 X 21		-0341		-0501		-0661		-1141					
C		2 X 22		-0262		-0422		-0582		-1062		2 X 22		-0342		-0502		-0662		-1142		C			
		2 X 23		-0263		-0423		-0583		-1063		2 X 23		-0343		-0503		-0663		-1143					
		2 X 24		-0264		-0424		-0584		-1064		2 X 24		-0344		-0504		-0664		-1144					
		2 X 25		-0265		-0425		-0585		-1065		2 X 25		-0345		-0505		-0665		-1145					
		2 X 26		-0266		-0426		-0586		-1066		2 X 26		-0346		-0506		-0666		-1146					
		2 X 27		-0267		-0427		-0587		-1067		2 X 27		-0347		-0507		-0667		-1147					
		2 X 28		-0268		-0428		-0588		-1068		2 X 28		-0348		-0508		-0668		-1148					
		2 X 29		-0269		-0429		-0589		-1069		2 X 29		-0349		-0509		-0669		-1149					
		2 X 30		-0270		-0430		-0590		-1070		2 X 30		-0350		-0510		-0670		-1150					
		2 X 31		-0271		-0431		-0591		-1071		2 X 31		-0351		-0511		-0671		-1151					
B		2 X 32		-0272		-0432		-0592		-1072		2 X 32		-0352		-0512		-0672		-1152		B			
		2 X 33		-0273		-0433		-0593		-1073		2 X 33		-0353		-0513		-0673		-1153					
		2 X 34		-0274		-0434		-0594		-1074		2 X 34		-0354		-0514		-0674		-1154					
		2 X 35		-0275		-0435		-0595		-1075		2 X 35		-0355		-0515		-0675		-1155					
		2 X 36		-0276		-0436		-0596		-1076		2 X 36		-0356		-0516		-0676		-1156					
		2 X 37		-0277		-0437		-0597		-1077		2 X 37		-0357		-0517		-0677		-1157					
		2 X 38		-0278		-0438		-0598		-1078		2 X 38		-0358		-0518		-0678		-1158					
		2 X 39		-0279		-0439		-0599		-1079		2 X 39		-0359		-0519		-0679		-1159					
		2 X 40		90131-0280		90131-0440		90131-0600		90131-1080		2 X 40		90131-0360		90131-0520		90131-0680		90131-1160					
		A		NON-STANDARD PRODUCTS NOT FOR GENERAL RELEASE		CHANGE DOC. NO EC NO: S2012-0490 DRMNAI SEE 2011/12/21 CHKD-SKANG 2011/12/28 APPR:MLONG 2012/02/24		DESCRIPTION REV		QUALITY SYMBOLS ▽=0 ▽=0 ▽=0		GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ±0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °		DIMENSION STYLE MM ONLY DRAWN BY DATE DB 1987/07/16 CHECKED BY DATE DB 1987/07/16 APPROVED BY DATE MLONG 2012/02/24 MATERIAL NO.		SCALE NTS		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION				C GRID III DUAL ROW STRAIGHT PIN HEADER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										SIZE A3		DOCUMENT NO. SD-90131-001		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							

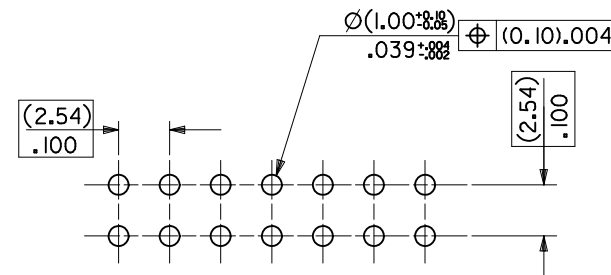
CIRCUIT SIZE	PLATING TYPE A PART NO.	PIN PART NUMBER	WAFER PART NUMBER	DIM C ^(±0.20) ±.008	DIM D ^(±0.20) ±.008 -.012
2 X 6	90131-3126	90129-2008	90131-0040	(14.60) .575	(2.38) .094
2 X 36	90131-3128	90129-2008	90131-0040	(14.60) .575	(2.38) .094
2 X 40	90131-3127	90129-2008	90131-0040	(14.60) .575	(2.38) .094

STANDARD PRODUCTS

CHANGE DOC. NO EC NO: S2012-0490 DRWN:ATSEE 2011/12/21 CHKD:SKANG 2011/12/28 APPR:MLONG 2012/02/24 O	DESCRIPTION REV	QUALITY SYMBOLS F_A=0 F_G=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY DB	DATE 1987/07/16	C GRID III DUAL ROW STRAIGHT PIN HEADER					
			4 PLACES	± ---	± ---	CHECKED BY DB					DATE 1987/07/16	
			3 PLACES	± ---	± ---	APPROVED BY MLONG					DATE 2012/02/24	
			2 PLACES	± 0.20	± ---	MOLEX INCORPORATED		SD-90131-001				
			1 PLACE	± ---	± ---							
			ANGULAR ± 3 °		MATERIAL NO. SEE TABLE		DOCUMENT NO.		SHEET NO. 8 OF 8			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



1. FOR ASSY NUMBERS WITH FINISH OPTIONS
AND DIM'S C & D SEE SHEETS 2 TO 7.

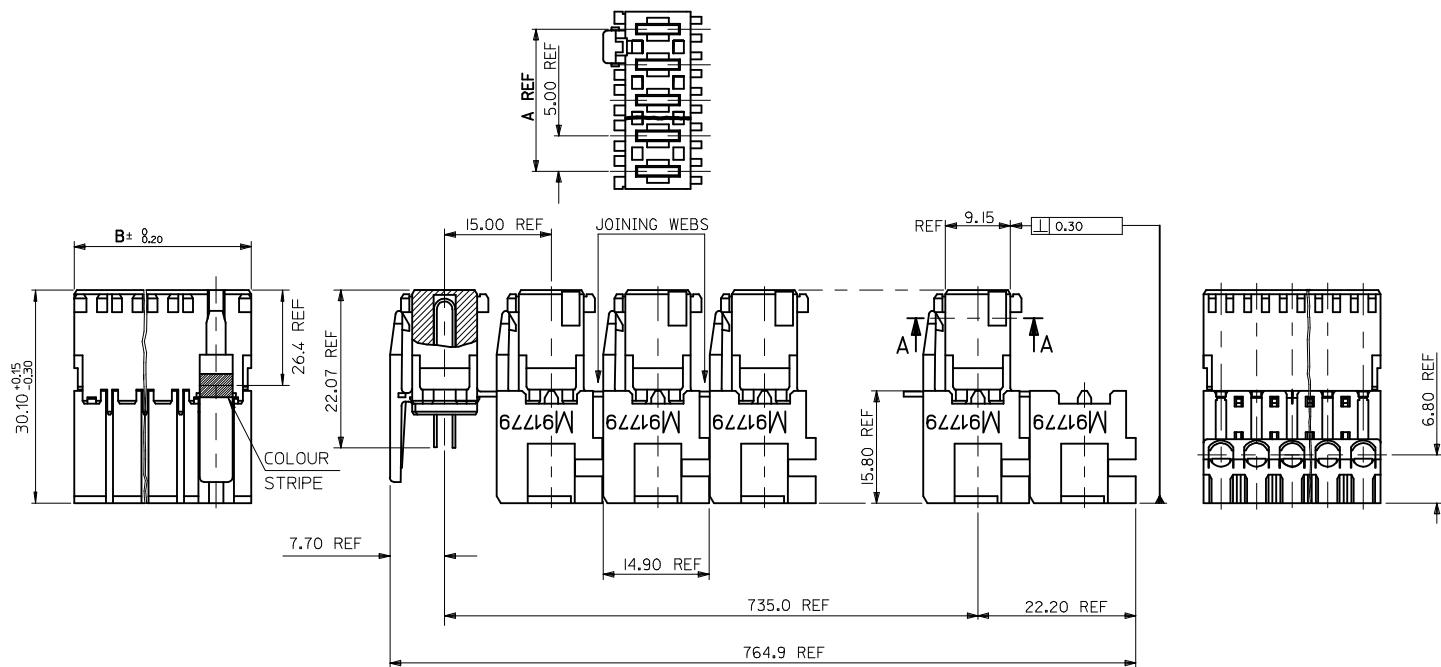


7	C
6	H
5	H
4	H
3	H
2	H
1	M

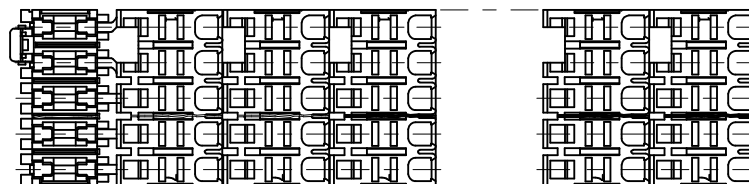
RECOMMENDED P.C. BOARD HOLE PATTERN

NOTES
2. RECOMMENDED PCB THICKNESS 1.6MM
3. PRODUCT SPECIFICATION: PS-99020-0001

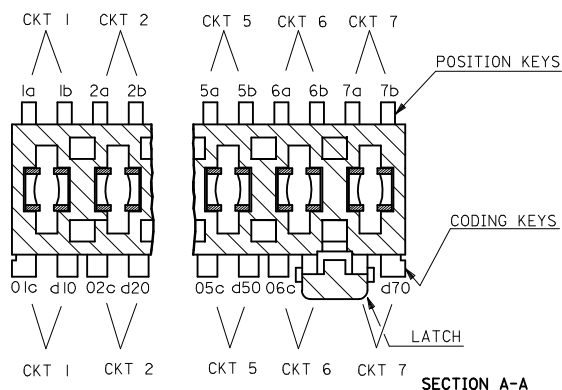
ADDED NOTES EC NO: E2008-0337 DRWN:L KIERAN CHK'D: APPR:BMAGUIRE Z	2008/02/14 2008/02/15 2008/02/15	QUALITY SYMBOLS ▽ = ◻ =	DESCRIPTION DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																		
				MM ONLY		4:1	METRIC																					
	<table><thead><tr><th></th><th>mm</th><th>INCH</th></tr></thead><tbody><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± ---°</td></tr></tbody></table>				mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	ANGULAR ± ---°			DRAWN BY DATE		TITLE				
				mm	INCH																							
	4 PLACES			± ---	± ---																							
3 PLACES	± ---	± ---																										
2 PLACES	± ---	± ---																										
1 PLACE	± ---	± ---																										
ANGULAR ± ---°																												
		DB 16/7/87																										
		CHECKED BY DATE		C GRID III DUAL ROW STRAIGHT PIN HEADER																								
		APPROVED BY DATE																										
		MATERIAL NO.		DOCUMENT NO.				SHEET NO.																				
		SEE CHART		SDA-90131				1 OF 7																				
		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																								
		A3																										



CKT SIZE	A	B
2	5.00	9.90
3	10.00	14.90
4	15.00	19.90



- NOTES:
- MATERIALS:
HOUSING: PA 6, UL94 V-2
COLOUR: SEE SHEET 2
TERMINAL: PHOSPHOR BRONZE, (0.50)/.020 THICK REF
PLATING: (2 µm)/79 µm MIN SILVER IN CONTACT AREA
(0.10 µm)/.004 µm MIN SILVER FLASH ALLOW
 - PRODUCT CONFORMS TO SPECIFICATION PS-99020-0037
 - ACCEPTS CABLE, PER ES-99036-0010
 - SEE SUBSEQUENT SHEETS FOR PART NUMBERS SHOWING THE VARIOUS CODING, KEYING AND LATCHING OPTIONS.
 - PACKAGING SPECIFICATION PK-90833-001
 - APPLICATION SPECIFICATION AS-99033-0004

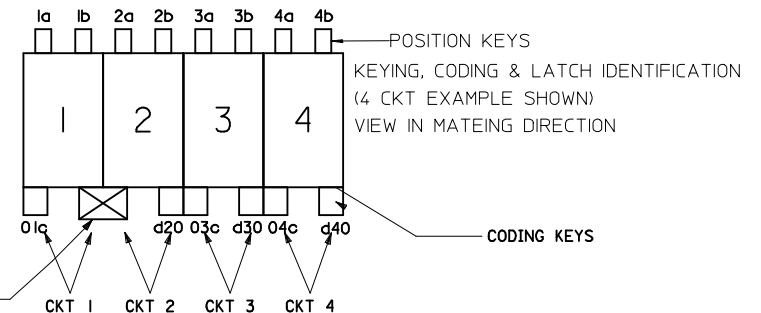


KEYING, CODING, & LATCH IDENTIFICATION
(7 CKT EXAMPLE SHOWN)

ADDED PART NUMBERS		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: IPG2014-1233		DRAWN: MONAHAN		2014/01/06		MM ONLY		1:1		METRIC		THIRD ANGLE PROJECTION	
CHKD: CHIKO		APPR: STIGLITZ		2014/01/20		DRAWN BY		DATE		TITLE		RAST 5 INDIRECT FEMALE ASSEMBLY 16 AMPS	
REV		DESCRIPTION		REV		CHECKED BY		DATE		BMAGUIRE		2005/01/07	
AC		REV		REV		APPROVED BY		DATE		BMAGUIRE		2010/10/20	
						MATERIAL NO.		SEE FOLLOWING SHEETS		DOCUMENT NO.		SD-91779-001	
						SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO.		1 OF 5	

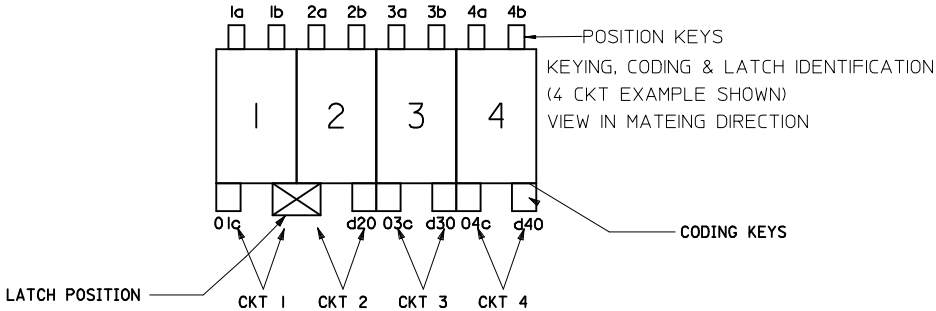
13	12	11			10		9		
MOLEX PART NO.	HOUSING NO.	CIRCUIT SIZE	COLOUR	POSITION KEYS	CODING KEYS	LATCH POSITION	CONFIGURATION	COLOUR STRIP	REF.
91779-0001	91779-9001	2	NATURAL	1a, 1b 2a, 2b	01c, d20	1/2		NONE	K00
91779-0002	91779-9001	2	NATURAL	1b, 2a	01c, d20	1/2		NONE	K01
91779-0003	91779-9001	2	NATURAL	1a, 2b	d20	1/2		NONE	K05
91779-0004	91779-9001	2	NATURAL	1a	01c, d20	1/2		NONE	K12
91779-0005	91779-9001	2	NATURAL	1a, 2b	01c, d20	1/2		BLUE	K48
91779-0006	91779-9004	2	RED	1a, 1b 2a, 2b	NONE	1/2		NONE	K41
91779-0007	91779-9001	2	NATURAL	2a	01c	1/2		NONE	K42
91779-0008	91779-9004	2	RED	1a, 1b 2a, 2b	d20	1/2		NONE	K34
91779-0009	PART NUMBER OBSOLETE, REPLACED WITH 91779-0006.								
91779-0010	91779-9003	2	BLACK	1a, 1b 2a, 2b	NONE	1/2		NONE	K41
91779-0011	91779-9001	2	NATURAL	1a	d20	1/2		NONE	K66
91779-0012	91779-9001	2	NATURAL	1b	01c, d20	1/2		NONE	K16
91779-0013	91779-9001	2	NATURAL	1a	NONE	1/2		NONE	K70
91779-0014	91779-9001	2	NATURAL	1b 2a 2b	d20	1/2		NONE	K--
91779-0015	91779-9001	2	NATURAL	1a, 1b 2a, 2b	d20	1/2		NONE	K34
91779-0016	91779-9001	2	NATURAL	1a, 1b 2a, 2b	01c	1/2		NONE	K33
91779-0017	91779-9004	2	RED	1a 1b 2b	NONE	1/2		NONE	K43
91779-0018	91779-9001	2	NATURAL	1b 2b	01c	1/2		NONE	K09
91779-0019	91779-9001	2	NATURAL	1b 2b	01c	1/2		GREEN	K--
91779-0020	91779-9001	2	NATURAL	1a 2b	d20	1/2		GREEN	K--
91779-0021	91779-9001	2	NATURAL	2a	01c, d20	1/2		BLACK	K--
91779-0022	91779-9001	2	NATURAL	1b	d20	1/2		RED	K--
91779-0023	91779-9001	2	NATURAL	1b 2b	01c	1/2		BLUE	K--

MOLEX PART NO.	HOUSING NO.	CIRCUIT SIZE	COLOUR	POSITION KEYS	CODING KEYS	LATCH POSITION	CONFIGURATION	colour stripe	REF.
91779-0024	91779-9001	2	NATURAL	1b 2b	01c	1/2		ORANGE	K--
91779-0025	91779-9001	2	NATURAL	1a 1b	d20	1/2		NONE	K--
91779-0026	91779-9001	2	NATURAL	1a 2b	01c	1/2		NONE	K--
91779-0027	91779-9003	2	BLACK	1a 2b	NONE	1/2		NONE	K06
91779-0028	91779-9004	2	RED	2a 2b	NONE	1/2		NONE	K31
91779-0029	91779-9001	2	NATURAL	NONE	01c, d20	1/2		NONE	K--
91779-0030	91779-9001	2	NATURAL	1a 2a 2b	01c, d20	1/2		NONE	K62
91779-0031	91779-9001	2	NATURAL	1a 2a	01c, d20	1/2		NONE	K--
91779-0032	91779-9001	2	NATURAL	1b 2b	01c, d20	1/2		NONE	K--
91779-0033	91779-9001	2	NATURAL	1a, 1b 2a, 2b	01c, d20	1/2		RED	K09
91779-0034	91779-9001	2	NATURAL	1a, 1b 2a, 2b	01c, d20	1/2		GREEN	K--
91779-0035	91779-9001	2	NATURAL	2b	NONE	1/2		NONE	K--
91779-0036	91779-9001	2	NATURAL	1a, 1b 2a, 2b	NONE	1/2		NONE	K41
91779-0038	91779-9001	2	NATURAL	1b	NONE	1/2		NONE	K--



SEE SHEET 1 EC NO: IPG2014-4233 DRAWN: MONAHAN 2014/01/06 CHKD: APPR: STURTELLIN 2014/01/20 AC	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± --- ± ---	DRAWN BY GMC/SWEEN	DATE 2004/10/14	TITLE RAST 5 INDIRECT FEMALE ASSEMBLY 16 AMPS	
	▽=0	3 PLACES ± --- ± ---	CHECKED BY BMAGUIE	DATE 2005/01/07	MOLEX MOLEX INCORPORATED	
		2 PLACES ± 0.05 ± ---	APPROVED BY BMAGUIE	DATE 2010/10/20	DOCUMENT NO. SD-91779-001	
		1 PLACE ± 0.1 ± ---	MATERIAL NO.	SHEET NO. 2 OF 5		
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				

CIRCUIT 2 CONTIN'D									
MOLEX PART NO.	HOUSING NO.	CIRCUIT SIZE	COLOUR	POSITION KEYS	CODING KEYS	LATCH POSITION	CONFIGURATION	COLOUR STRIPE	REF.
91779-0039	91779-9001	2	NATURAL	1a 2b	NONE	1/2		NONE	K06



SEE SHEET 1 EC NO: IPG2014-4233 DRAWN: MONAHAN 2014/01/06 CHKD: APPR: STRIFFLIN 2014/01/20 AC	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY	DATE	TITLE RAST 5 INDIRECT FEMALE ASSEMBLY 16 AMPS molex SD-91779-001				
			4 PLACES	± ---	± ---	GMCSWEEN	2004/10/14					
			3 PLACES	± ---	± ---	CHECKED BY	DATE					
			2 PLACES	± 0.05	± ---	BMAGUIE	2005/01/07					
			1 PLACE	± 0.1	± ---	APPROVED BY	DATE					
			0 PLACE	±	±	BMAGUIE	2010/10/20	MATERIAL NO.		DOCUMENT NO.		SHEET NO. 3 OF 5
			ANGULAR ± ---°		SEE TABLES			SD-91779-001				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
					SIZE A2	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

	13	12	11	10	9	8	7	6	5	4	3	2	1									
J	MOLEX PART NO.	HOUSING NO.	CIRCUIT SIZE	COLOUR	POSITION KEYS	CODING KEYS	LATCH POSITION	CONFIGURATION	COLOUR STRIP	REF.	MOLEX PART NO.	HOUSING NO.	CIRCUIT SIZE	COLOUR	VOID CIRCUIT	POSITION KEYS	CODING KEYS	LATCH POSITION	CONFIGURATION	COLOUR STRIP	REF.	J
	91779-0101	91779-9101	3	NATURAL	1a 1b 2a 2b 3a 3b	01c d20 03c d30	1/2		NONE	K00	91779-0120	91779-9102	3	NATURAL	NONE	2b 3b	d30	2/3		NONE	K--	
	91779-0102	91779-9102	3	NATURAL	1a 1b 2a 2b 3a 3b	01c d10 02c d30	2/3		NONE	K90	91779-0121	91779-9101	3	NATURAL	NONE	NONE	01c d30	1/2		NONE	K--	
I	91779-0103	91779-9101	3	NATURAL	1b	01c d20	1/2		NONE	K01	91779-0122	91779-9103	3	RED	NONE	1b 2a 2b 3b	NONE	2/3		NONE	k124	I
	91779-0104	91779-9102	3	NATURAL	2a	d10 d30	2/3		NONE	K44	91779-0123	91779-9103	3	RED	2	2b 3b	d10	2/3		NONE	k84	
H	91779-0105	91779-9102	3	NATURAL	3b	02c d30	2/3		NONE	K--	91779-0124	91779-9102	3	NATURAL	NONE	NONE	d10 02c d30	2/3		NONE	K--	H
	91779-0106	91779-9101	3	NATURAL	NONE	NONE	1/2		NONE	k59	91779-0126	91779-9101	3	NATURAL	NONE	3b	01c d30	1/2		NONE	K--	
G	91779-0107	91779-9101	3	NATURAL	1b	01c d20	1/2		RED	k01	91779-0127	91779-9102	3	NATURAL	NONE	1a 2a 3b	d10 d30	2/3		NONE	k170	G
	91779-0108	91779-9101	3	NATURAL	1a	01c d20	1/2		NONE	K154	91779-0128	91779-9102	3	NATURAL	NONE	1a 2b	NONE	2/3		NONE	K--	
F	91779-0109	91779-9103	3	RED	1a 1b 2a 2b 3a 3b	NONE	2/3		NONE	K39	91779-0129	91779-9102	3	NATURAL	NONE	1a 1b 2a 2b 3a 3b	01c d30	2/3		NONE	K--	F
	91779-0110	91779-9103	3	RED	2b 3b	d10	2/3		NONE	K84	91779-0130	91779-9101	3	NATURAL	NONE	1a 3b	01c	1/2		NONE	K--	
E	91779-0111	91779-9102	3	NATURAL	2b 3a	d10, d30	2/3		NONE	K--												E
	91779-0112	PART NUMBER OBSOLETE, REPLACED WITH 91779-0109.																				
D	91779-0113	91779-9103	3	RED	1a 1b 2a 2b 3a 3b	d10	2/3		NONE	K41												D
	91779-0114	91779-9102	3	NATURAL	1a 1b 2a 2b 3a 3b	d10	2/3		NONE	K41												
C	91779-0115	91779-9101	3	NATURAL	NONE	03C	1/2		NONE	K72												C
	91779-0116	91779-9101	3	NATURAL	1a 1b	d30	1/2		NONE	K05												
B	91779-0117	91779-9102	3	NATURAL	2a	d10 02c d30	2/3		NONE	K--												B
	91779-0118	91779-9102	3	NATURAL	2a	d10	2/3		NONE	K--												
A	91779-0119	91779-9101	3	NATURAL	2a	01c d30	1/2		NONE	K--												A

1a 1b 2a 2b 3a 3b 4a 4b

POSITION KEYS

1 2 3 4

01c d20 03c d30 04c d40

CODING KEYS

LATCH POSITION

CKT 1 CKT 2 CKT 3 CKT 4

KEYING, CODING & LATCH IDENTIFICATION
(4 CKT EXAMPLE SHOWN)
VIEW IN MATING DIRECTION

SEE SHEET 1
EC NO: IPG2014-1233
DRAWN: MONAHAN 2014/01/06
CHKD:
APPR: ST. GRIFFIN 2014/01/20
REV

QUALITY SYMBOLS
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± 0.05 ± ---
1 PLACE ± 0.1 ± ---
ANGULAR ± ---°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

SCALE
2:1

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

DRAWN BY
GMC SWEEN

DATE
2004/10/14

CHECKED BY
BMAGUIE

DATE
2005/01/07

APPROVED BY
BMAGUIE

DATE
2010/10/20

MATERIAL NO.

DOCUMENT NO.

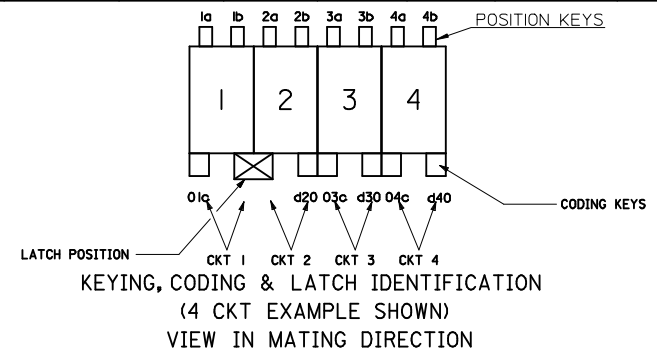
SHEET NO.
4 OF 5

RAST 5 INDIRECT
FEMALE ASSEMBLY
16 AMPS

MOLEX INCORPORATED

SD-91779-001

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INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



SEE SHEET 1 EC NO: IPG2014-1233 DRAWN: MONAHAN CHKO: APPR: STURTEFFIN	DESCRIPTION 2014/01/06 2010/10/20	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY GMC SWEEN	DATE 2004/10/14	TITLE RAST 5 INDIRECT FEMALE ASSEMBLY 16 AMPS					
			4 PLACES	± ---	± ---	CHECKED BY BMAGUIRE	DATE 2005/01/07						
			3 PLACES	± ---	± ---	APPROVED BY BMAGUIRE		DATE 2010/10/20	molex MOLEX INCORPORATED				
			2 PLACES	± 0.05	± ---								
			1 PLACE	± 0.1	± ---	DOCUMENT NO. SD-91779-001							
			ANGULAR ± ---°										
			DRAFT WHERE APPLICABLE			SEE TABLES			SHEET NO. 4 OF 5				
			MUST REMAIN WITHIN DIMENSIONS			SIZE A2							
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

