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Part Number: [0879113607](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® Header, Right Angle, Through Hole, 36 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Tube Packaging, Lead-free

Documents:
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-87920-019 \(PDF\)](#)

Agency Certification

UL E29179

General

Product Family PCB Headers
Series [87911](#)
Application Board-to-Board, Wire-to-Board
Overview [cgrid_sl_products](#)
Product Name C-Grid®

Physical

Breakaway Yes
Circuits (Loaded) 36
Circuits (maximum) 36
Color - Resin Black
First Mate / Last Break No
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part None
Lock to Mating Part None
Material - Metal Copper Alloy
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 2
Orientation Right Angle
PC Tail Length (in) 0.110 In
PC Tail Length (mm) 2.79 mm
PCB Locator No
PCB Retention None
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tube
Pitch - Mating Interface (in) 0.100 In
Pitch - Mating Interface (mm) 2.54 mm
Pitch - Term. Interface (in) 0.100 In
Pitch - Term. Interface (mm) 2.54 mm
Plating min: Mating (µin) 15
Plating min: Mating (µm) 0.38
Polarized to Mating Part No
Polarized to PCB No
Shrouded No
Stackable No
Surface Mount Compatible (SMC) Yes
Temperature Range - Operating -55°C to +105°C

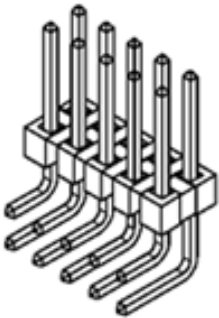


image - Reference only

Series

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[87911Series](#)

Mates With
[7859 Shunts](#), [C-Grid® PCB Receptacles](#) like [71850](#), [SL™ IDT Housing](#) like [70450](#)

Termination Interface: Style	Through Hole
Electrical	
Current - Maximum per Contact	3A
Voltage - Maximum	250V
Solder Process Data	
Duration at Max. Process Temperature (seconds)	12
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260
Material Info	
Reference - Drawing Numbers	
Packaging Specification	PK-89990-520
Product Specification	PS-87920-019
Sales Drawing	SD-87911-037

This document was generated on 05/25/2010

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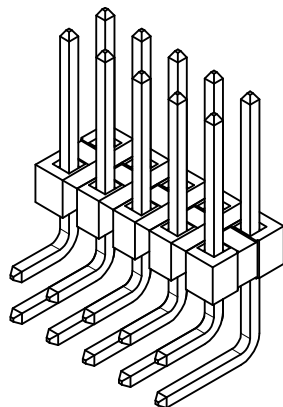
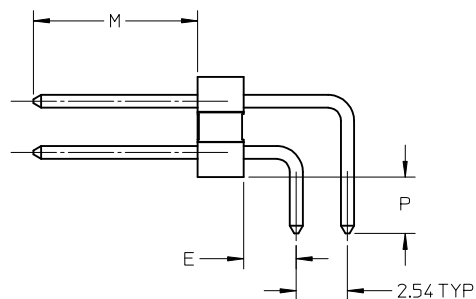
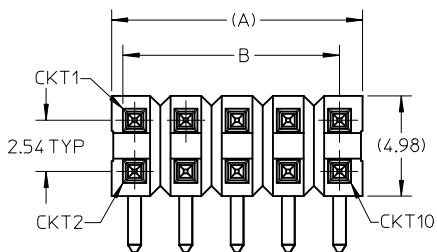
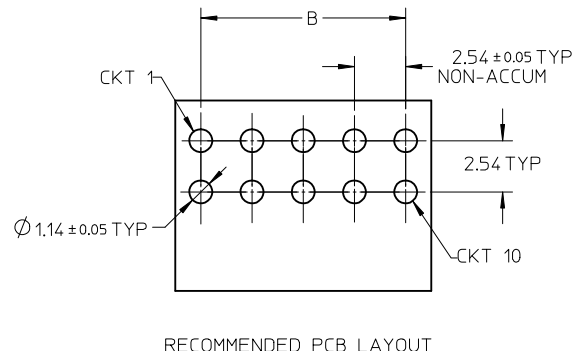
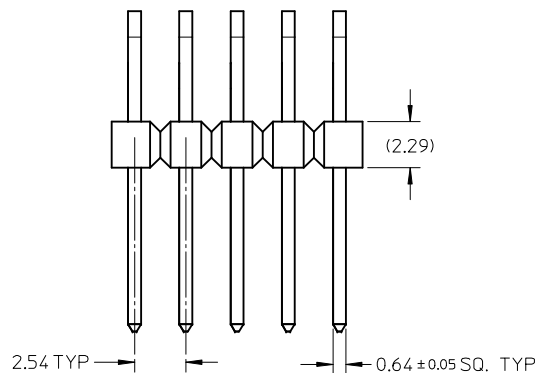
E

D

C

B

A



NOTES

1. MATERIAL:

HSG: LCP, GLASS-FILLED, UL94V-0

COLOR, BLACK

PIN: COPPER ALLOY 0.64 mm SQ.

2. PLATING TYPE:

(1) 0.38µm MIN GOLD IN CONTACT AREA OVER

2.00µm MIN TIN SELECTIVE IN SOLDER AREA BOTH OVER

1.25µm NICKEL OVERALL

(2) 0.75µm MIN GOLD IN CONTACT AREA OVER

2.00µm MIN TIN SELECTIVE IN SOLDER AREA BOTH OVER

1.25µm NICKEL OVERALL

(3) 2.50µm MIN TIN OVERALL

1.25µm NICKEL OVERALL

3. FOR PACKAGING OPTION PLEASE REFER TO THE TABLE

4. PCB THICKNESS 1.6+/-0.10mm

5. PIN PUSHOUT FORCE 1kgf MIN IN EITHER DIRECTION

6. PRODUCT SPECIFICATION: PS-87920-019

7. WAFER TO BE FLAT WITHIN 0.003 mm/mm

8. THE ABOVE 10CKT SHOWN IS FOR ILLUSTRATION ONLY.

9. EDGES WILL BE ROUGH OR IRREGULAR FOR THESE PARTS

DUE TO BREAK-OFF. DIM SHOULD BE TAKEN AS REFERENCE

10. PACKAGING SPECIFICATION: PK-89990-520

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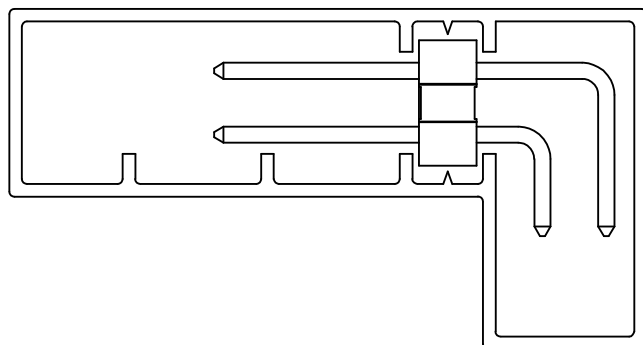
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3

2

1

PDR#1872.ADD 879112610 EC NO: S2009-0252 DRWN:YCHONG 2008/10/15 CHKD:SKANG 2008/10/16 APPR:MLONG 2008/10/16			DESCRIPTION	QUALITY SYMBOLS ▽=0 ◇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
					mm	INCH	DRAWN BY SKLIM01	DATE 2006/01/24	TITLE CUSTOM HEADER C-GRID, DUAL ROW HEADER SINGLE WAFER, R/A					
					4 PLACES	± --- ± ---	CHECKED BY PATEY	DATE 2006/02/08						
					3 PLACES	± --- ± ---	APPROVED BY PATEY	DATE 2006/02/08						
					2 PLACES	± 0.20 ± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87911-037		SHEET NO. 1 OF 5			
					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						
B2			REV											

[illegible]

PDR#1872.ADD 879112610 EC NO: S2009-0252 DRAWN: YKCHONG 2008/10/15 CHK'D: SKANG 2008/10/16 APPR: MLONG 2008/10/16	DESCRIPTION B2	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY SKLIM01	DATE 2006/01/24	TITLE CUSTOM HEADER C-GRID, DUAL ROW HEADER SINGLE WAFER, R/A				
			4 PLACES	± ---	± ---	CHECKED BY	DATE					
			3 PLACES	± ---	± ---	PATEY	2006/02/08					
			2 PLACES	± 0.20	± ---	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED				
			1 PLACE	± ---	± ---	PATEY	2006/02/08					
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87911-037		2 OF 5		
						SIZE A3		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				
	PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION					PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION					
	TRAY	TUBE WITHOUT CAP	TUBE WITH CAP				A	B	M	P	E	TRAY	TUBE WITHOUT CAP	TUBE WITH CAP				A	B	M	P	E	
F	-----	87911-1607	-----	16	-----	1	20.32	17.78	8.13	2.79	2.61	-----	87911-2807	-----	28	-----	1	35.56	33.02	8.13	2.79	2.61	F
	-----	87911-1608	-----	16	-----	2	20.32	17.78	8.13	2.79	2.61	-----	87911-2808	-----	28	-----	2	35.56	33.02	8.13	2.79	2.61	
	-----	87911-1609	-----	16	-----	3	20.32	17.78	8.13	2.79	2.61	-----	87911-2809	-----	28	-----	3	35.56	33.02	8.13	2.79	2.61	
	-----	87911-1807	-----	18	-----	1	22.86	20.32	8.13	2.79	2.61	-----	87911-3007	-----	30	-----	1	38.10	35.56	8.13	2.79		2.61
	-----	87911-1808	-----	18	-----	2	22.86	20.32	8.13	2.79	2.61	-----	87911-3008	-----	30	-----	2	38.10	35.56	8.13	2.79		2.61
E	-----	87911-1809	-----	18	-----	3	22.86	20.32	8.13	2.79	2.61	-----	87911-3009	-----	30	-----	3	38.10	35.56	8.13	2.79	2.61	E
	-----	87911-2007	-----	20	-----	1	25.40	22.86	8.13	2.79	2.61	-----	87911-3207	-----	32	-----	1	40.64	38.10	8.13	2.79	2.61	
	-----	87911-2008	-----	20	-----	2	25.40	22.86	8.13	2.79	2.61	-----	87911-3208	-----	32	-----	2	40.64	38.10	8.13	2.79	2.61	
	-----	87911-2009	-----	20	-----	3	25.40	22.86	8.13	2.79	2.61	-----	87911-3209	-----	32	-----	3	40.64	38.10	8.13	2.79	2.61	
D	-----	87911-2207	-----	22	-----	1	27.94	25.40	8.13	2.79	2.61	-----	87911-3407	-----	34	-----	1	43.18	40.64	8.13	2.79	2.61	D
	-----	87911-2208	-----	22	-----	2	27.94	25.40	8.13	2.79	2.61	-----	87911-3408	-----	34	-----	2	43.18	40.64	8.13	2.79	2.61	
	-----	87911-2209	-----	22	-----	3	27.94	25.40	8.13	2.79	2.61	-----	87911-3409	-----	34	-----	3	43.18	40.64	8.13	2.79	2.61	
	-----	87911-2407	-----	24	-----	1	30.48	27.94	8.13	2.79	2.61	-----	87911-3607	-----	36	-----	1	45.72	43.18	8.13	2.79		2.61
	-----	87911-2408	-----	24	-----	2	30.48	27.94	8.13	2.79	2.61	-----	87911-3608	-----	36	-----	2	45.72	43.18	8.13	2.79		2.61
C	-----	87911-2409	-----	24	-----	3	30.48	27.94	8.13	2.79	2.61	-----	87911-3609	-----	36	-----	3	45.72	43.18	8.13	2.79	2.61	C
	-----	87911-2607	-----	26	-----	1	33.02	30.48	8.13	2.79	2.61	-----	87911-3807	-----	38	-----	1	48.26	45.72	8.13	2.79	2.61	
	-----	87911-2608	-----	26	-----	2	33.02	30.48	8.13	2.79	2.61	-----	87911-3808	-----	38	-----	2	48.26	45.72	8.13	2.79	2.61	
	-----	87911-2609	-----	26	-----	3	33.02	30.48	8.13	2.79	2.61	-----	87911-3809	-----	38	-----	3	48.26	45.72	8.13	2.79	2.61	
	-----	87911-2610	-----	26	-----	3	33.02	30.48	4.00	2.79	1.32												
B																						B	

A	PDR#1872.ADD 879112610 EC NO: S2009-0252 DRWN:YCHONG 2008/10/15 CHKD:SKANG 2008/10/16 APPR:MLONG 2008/10/16					QUALITY SYMBOLS ▽=0 ◻=0	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			DRAWN BY DATE		TITLE			CUSTOM HEADER C-GRID, DUAL ROW HEADER SINGLE WAFER, R/A MOLEX MOLEX INCORPORATED							
			CHECKED BY DATE												
			APPROVED BY DATE												
			PATEY 2006/02/08												
			PATEY 2006/02/08												
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87911-037		3 OF 5							
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
tb_frame_A3_P_AM_T Rev. E 2006/04/15		9	8	7	6	5	4	3	2	1					

	10		9			8			7		6			5		4			3			2			1		
F	PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION					PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION									
	TRAY	TUBE WITHOUT CAP	TUBE WITH CAP				A	B	M	P	E	TRAY	TUBE WITHOUT CAP	TUBE WITH CAP				A	B	M	P	E					
	-----	87911-4007	-----	40	-----	1	50.80	48.26	8.13	2.79	2.61	-----	87911-5207	-----	52	-----	1	66.04	63.50	8.13	2.79	2.61	F				
	-----	87911-4008	-----	40	-----	2	50.80	48.26	8.13	2.79	2.61	-----	87911-5208	-----	52	-----	2	66.04	63.50	8.13	2.79	2.61					
	-----	87911-4009	-----	40	-----	3	50.80	48.26	8.13	2.79	2.61	-----	87911-5209	-----	52	-----	3	66.04	63.50	8.13	2.79	2.61					
E	-----	87911-4207	-----	42	-----	1	53.34	50.80	8.13	2.79	2.61	-----	87911-5407	-----	54	-----	1	68.58	66.04	8.13	2.79	2.61					
	-----	87911-4208	-----	42	-----	2	53.34	50.80	8.13	2.79	2.61	-----	87911-5408	-----	54	-----	2	68.58	66.04	8.13	2.79	2.61					
	-----	87911-4209	-----	42	-----	3	53.34	50.80	8.13	2.79	2.61	-----	87911-5409	-----	54	-----	3	68.58	66.04	8.13	2.79	2.61	E				
	-----	87911-4407	-----	44	-----	1	55.88	53.34	8.13	2.79	2.61	-----	87911-5607	-----	56	-----	1	71.12	68.58	8.13	2.79	2.61					
	-----	87911-4408	-----	44	-----	2	55.88	53.34	8.13	2.79	2.61	-----	87911-5608	-----	56	-----	2	71.12	68.58	8.13	2.79	2.61					
	-----	87911-4409	-----	44	-----	3	55.88	53.34	8.13	2.79	2.61	-----	87911-5609	-----	56	-----	3	71.12	68.58	8.13	2.79	2.61					
D	-----	87911-4607	-----	46	-----	1	58.42	55.88	8.13	2.79	2.61	-----	87911-5807	-----	58	-----	1	73.66	71.12	8.13	2.79	2.61	D				
	-----	87911-4608	-----	46	-----	2	58.42	55.88	8.13	2.79	2.61	-----	87911-5808	-----	58	-----	2	73.66	71.12	8.13	2.79	2.61					
	-----	87911-4609	-----	46	-----	3	58.42	55.88	8.13	2.79	2.61	-----	87911-5809	-----	58	-----	3	73.66	71.12	8.13	2.79	2.61					
	-----	87911-4807	-----	48	-----	1	60.96	58.42	8.13	2.79	2.61	-----	87911-6007	-----	60	-----	1	76.20	73.66	8.13	2.79	2.61					
	-----	87911-4808	-----	48	-----	2	60.96	58.42	8.13	2.79	2.61	-----	87911-6008	-----	60	-----	2	76.20	73.66	8.13	2.79	2.61					
C	-----	87911-4809	-----	48	-----	3	60.96	58.42	8.13	2.79	2.61	-----	87911-6009	-----	60	-----	3	76.20	73.66	8.13	2.79	2.61	C				
	-----	87911-5007	-----	50	-----	1	63.50	60.96	8.13	2.79	2.61	-----	87911-6207	-----	62	-----	1	78.74	76.20	8.13	2.79	2.61					
	-----	87911-5008	-----	50	-----	2	63.50	60.96	8.13	2.79	2.61	-----	87911-6208	-----	62	-----	2	78.74	76.20	8.13	2.79	2.61					
	-----	87911-5009	-----	50	-----	3	63.50	60.96	8.13	2.79	2.61	-----	87911-6209	-----	62	-----	3	78.74	76.20	8.13	2.79	2.61					
B																								B			

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	mmINCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °		DRAWN BY DATE SKLIM01 2006/01/24 CHECKED BY DATE PATEY 2006/02/08 APPROVED BY DATE PATEY 2006/02/08			TITLE CUSTOM HEADER C-GRID, DUAL ROW HEADER SINGLE WAFER, R/A							
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.					DOCUMENT NO.		SHEET NO.			
	B2		SEE TABLE			SD-87911-037		4 OF 5					
	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
fb_frame_A3_P_AM-T Rev. E 2006/04/15	9	8	7	6	5	4	3	2	1				

	10		9			8			7		6			5		4			3			2			1		
F	PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION					PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION					F				
	TRAY	TUBE WITHOUT CAP	TUBE WITH CAP				A	B	M	P	E	TRAY	TUBE WITHOUT CAP	TUBE WITH CAP				A	B	M	P	E					
	-----	87911-6407	-----	64	-----	1	81.28	78.74	8.13	2.79	2.61	-----	87911-7607	-----	76	-----	1	96.52	93.98	8.13	2.79	2.61					
	-----	87911-6408	-----	64	-----	2	81.28	78.74	8.13	2.79	2.61	-----	87911-7608	-----	76	-----	2	96.52	93.98	8.13	2.79	2.61					
	-----	87911-6409	-----	64	-----	3	81.28	78.74	8.13	2.79	2.61	-----	87911-7609	-----	76	-----	3	96.52	93.98	8.13	2.79	2.61					
E	-----	87911-6607	-----	66	-----	1	83.82	81.28	8.13	2.79	2.61	-----	87911-7807	-----	78	-----	1	99.06	96.52	8.13	2.79	2.61					
	-----	87911-6608	-----	66	-----	2	83.82	81.28	8.13	2.79	2.61	-----	87911-7808	-----	78	-----	2	99.06	96.52	8.13	2.79	2.61					
	-----	87911-6609	-----	66	-----	3	83.82	81.28	8.13	2.79	2.61	-----	87911-7809	-----	78	-----	3	99.06	96.52	8.13	2.79	2.61					
	-----	87911-6807	-----	68	-----	1	86.36	83.82	8.13	2.79	2.61	-----	87911-8007	-----	80	-----	1	101.60	99.06	8.13	2.79	2.61					
	-----	87911-6808	-----	68	-----	2	86.36	83.82	8.13	2.79	2.61	-----	87911-8008	-----	80	-----	2	101.60	99.06	8.13	2.79	2.61					
	-----	87911-6809	-----	68	-----	3	86.36	83.82	8.13	2.79	2.61	-----	87911-8009	-----	80	-----	3	101.60	99.06	8.13	2.79	2.61					
D	-----	87911-7007	-----	70	-----	1	88.90	86.36	8.13	2.79	2.61																
	-----	87911-7008	-----	70	-----	2	88.90	86.36	8.13	2.79	2.61																
	-----	87911-7009	-----	70	-----	3	88.90	86.36	8.13	2.79	2.61																
C	-----	87911-7207	-----	72	-----	1	91.44	88.90	8.13	2.79	2.61																
	-----	87911-7208	-----	72	-----	2	91.44	88.90	8.13	2.79	2.61																
	-----	87911-7209	-----	72	-----	3	91.44	88.90	8.13	2.79	2.61																
	-----	87911-7407	-----	74	-----	1	93.98	91.44	8.13	2.79	2.61																
	-----	87911-7408	-----	74	-----	2	93.98	91.44	8.13	2.79	2.61																
	-----	87911-7409	-----	74	-----	3	93.98	91.44	8.13	2.79	2.61																
B																											

A	PDR#1872.ADD 879112610 EC NO: S2009-0252 DRWN:YCHONG CHKD:SKANG APPR:MLONG 2008/10/15 2008/10/16 2008/10/16					QUALITY SYMBOLS ▽=0 ◻=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION CUSTOM HEADER C-GRID, DUAL ROW HEADER SINGLE WAFER, R/A MOLEX INCORPORATED	SHEET NO. 5 OF 5	
	B2	REV			DRAWN BY DATE SKLIM01 2006/01/24			TITLE								
					CHECKED BY DATE PATEY 2006/02/08											
					APPROVED BY DATE PATEY 2006/02/08											
					MATERIAL NO.			DOCUMENT NO.								
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87911-037											
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fb_frame_A3_P_AM-T Rev. E 2006/04/15	9	8	7	6	5	4	3	2	1
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