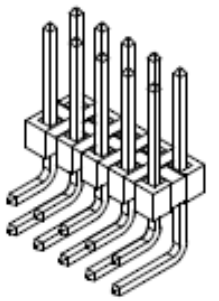
This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0879111209
Status: Active
Overview: cgrid__sl_products
Description: 2.54mm (.100") Pitch C-Grid® Header, Right Angle, Through Hole, 12 Circuits, 2.50µm (98µ") Tin (Sn) Overall Plating, Tube Packaging, Lead- free



Series image - Reference only

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)	12
Circuits (maximum)	12
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	Tin
Material - Plating Termination	Nickel
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)	98
Plating min: Mating (µm)	2.50
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

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

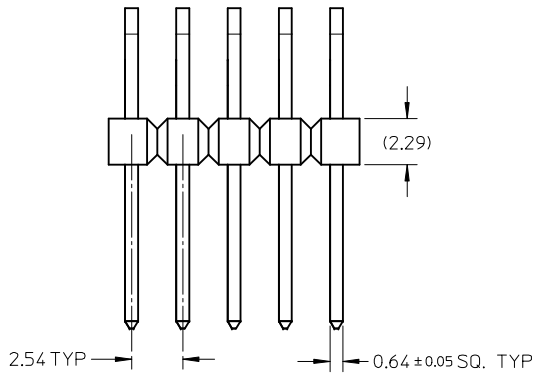
Material Info

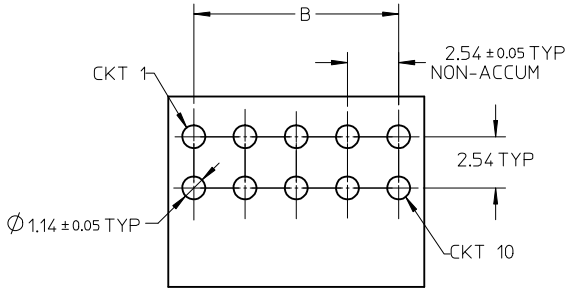
Reference - Drawing Numbers

Packaging Specification	PK-89990-520
Product Specification	PS-87920-019
Sales Drawing	SD-87911-037

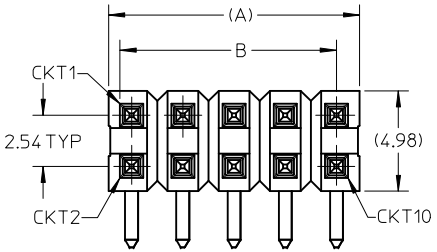
This document was generated on 05/25/2010

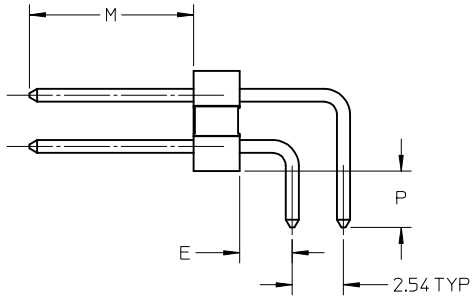
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

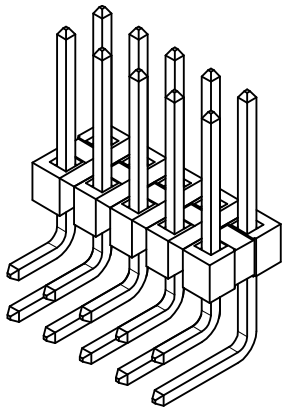




RECOMMENDED PCB LAYOUT







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

PDR#1872.ADD 879112610
EC NO: S2009-0252 2008/10/15
DRWN:YMCHONG 2008/10/16
CH'KD:SKANG 2008/10/16
APPR:MLONG
DESCRIPTION
REV
B2

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

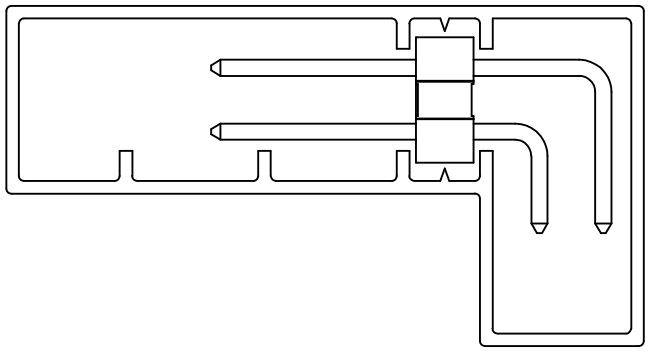
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: SKLIM01 DATE: 2006/01/24
CHECKED BY: PATEY DATE: 2006/02/08
APPROVED BY: PATEY DATE: 2006/02/08
MATERIAL NO.: SEE TABLE

TITLE: CUSTOM HEADER C-GRID, DUAL ROW HEADER SINGLE WAFER, R/A
MOLEX INCORPORATED
DOCUMENT NO.: SD-87911-037
SHEET NO.: 1 OF 5
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



PART IN TUBE ORIENTATION

TRAY	TUBE WITHOUT CAP	TUBE WITH CAP	CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
						A	B	M	P	E
87911-0407	--------	--------	4	-----	1	5.08	2.54	8.13	2.79	2.61
87911-0408	--------	--------	4	-----	2	5.08	2.54	8.13	2.79	2.61
87911-0409	--------	--------	4	-----	3	5.08	2.54	8.13	2.79	2.61
87911-0607	--------	--------	6	-----	1	7.62	5.08	8.13	2.79	2.61
87911-0608	--------	--------	6	-----	2	7.62	5.08	8.13	2.79	2.61
87911-0609	--------	--------	6	-----	3	7.62	5.08	8.13	2.79	2.61
--------	87911-0807	--------	8	-----	1	10.16	7.62	8.13	2.79	2.61
--------	87911-0808	--------	8	-----	2	10.16	7.62	8.13	2.79	2.61
--------	87911-0809	--------	8	-----	3	10.16	7.62	8.13	2.79	2.61
--------	87911-1007	--------	10	-----	1	12.70	10.16	8.13	2.79	2.61
--------	87911-1008	--------	10	-----	2	12.70	10.16	8.13	2.79	2.61
--------	87911-1009	--------	10	-----	3	12.70	10.16	8.13	2.79	2.61
--------	87911-1207	--------	12	-----	1	15.24	12.70	8.13	2.79	2.61
--------	87911-1208	--------	12	-----	2	15.24	12.70	8.13	2.79	2.61
--------	87911-1209	--------	12	-----	3	15.24	12.70	8.13	2.79	2.61
--------	87911-1407	--------	14	-----	1	17.78	15.24	8.13	2.79	2.61
--------	87911-1408	--------	14	-----	2	17.78	15.24	8.13	2.79	2.61
--------	87911-1409	--------	14	-----	3	17.78	15.24	8.13	2.79	2.61

PDR#1872.ADD 879112610
EC NO: S2009-0252 2008/10/15
DRWN:YMCHONG 2008/10/16
CH'KD:SKANG
APPR:MLONG 2008/10/16
DESCRIPTION
REV
B2

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: SKLIM01 DATE: 2006/01/24
CHECKED BY: PATEY DATE: 2006/02/08
APPROVED BY: PATEY DATE: 2006/02/08
MATERIAL NO.: SEE TABLE

TITLE
CUSTOM HEADER
C-GRID, DUAL ROW HEADER
SINGLE WAFER, R/A

molex MOLEX INCORPORATED

DOCUMENT NO.: SD-87911-037
SHEET NO.: 2 OF 5

SIZE A3

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PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
TRAY	TUBE WITHOUT CAP	TUBE WITH CAP				A	B	M	P	E
--------	87911-1607	--------	16	-----	1	20.32	17.78	8.13	2.79	2.61
--------	87911-1608	--------	16	-----	2	20.32	17.78	8.13	2.79	2.61
--------	87911-1609	--------	16	-----	3	20.32	17.78	8.13	2.79	2.61
--------	87911-1807	--------	18	-----	1	22.86	20.32	8.13	2.79	2.61
--------	87911-1808	--------	18	-----	2	22.86	20.32	8.13	2.79	2.61
--------	87911-1809	--------	18	-----	3	22.86	20.32	8.13	2.79	2.61
--------	87911-2007	--------	20	-----	1	25.40	22.86	8.13	2.79	2.61
--------	87911-2008	--------	20	-----	2	25.40	22.86	8.13	2.79	2.61
--------	87911-2009	--------	20	-----	3	25.40	22.86	8.13	2.79	2.61
--------	87911-2207	--------	22	-----	1	27.94	25.40	8.13	2.79	2.61
--------	87911-2208	--------	22	-----	2	27.94	25.40	8.13	2.79	2.61
--------	87911-2209	--------	22	-----	3	27.94	25.40	8.13	2.79	2.61
--------	87911-2407	--------	24	-----	1	30.48	27.94	8.13	2.79	2.61
--------	87911-2408	--------	24	-----	2	30.48	27.94	8.13	2.79	2.61
--------	87911-2409	--------	24	-----	3	30.48	27.94	8.13	2.79	2.61
--------	87911-2607	--------	26	-----	1	33.02	30.48	8.13	2.79	2.61
--------	87911-2608	--------	26	-----	2	33.02	30.48	8.13	2.79	2.61
--------	87911-2609	--------	26	-----	3	33.02	30.48	8.13	2.79	2.61
--------	87911-2610	--------	26	-----	3	33.02	30.48	4.00	2.79	1.32

PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
TRAY	TUBE WITHOUT CAP	TUBE WITH CAP				A	B	M	P	E
--------	87911-2807	--------	28	-----	1	35.56	33.02	8.13	2.79	2.61
--------	87911-2808	--------	28	-----	2	35.56	33.02	8.13	2.79	2.61
--------	87911-2809	--------	28	-----	3	35.56	33.02	8.13	2.79	2.61
--------	87911-3007	--------	30	-----	1	38.10	35.56	8.13	2.79	2.61
--------	87911-3008	--------	30	-----	2	38.10	35.56	8.13	2.79	2.61
--------	87911-3009	--------	30	-----	3	38.10	35.56	8.13	2.79	2.61
--------	87911-3207	--------	32	-----	1	40.64	38.10	8.13	2.79	2.61
--------	87911-3208	--------	32	-----	2	40.64	38.10	8.13	2.79	2.61
--------	87911-3209	--------	32	-----	3	40.64	38.10	8.13	2.79	2.61
--------	87911-3407	--------	34	-----	1	43.18	40.64	8.13	2.79	2.61
--------	87911-3408	--------	34	-----	2	43.18	40.64	8.13	2.79	2.61
--------	87911-3409	--------	34	-----	3	43.18	40.64	8.13	2.79	2.61
--------	87911-3607	--------	36	-----	1	45.72	43.18	8.13	2.79	2.61
--------	87911-3608	--------	36	-----	2	45.72	43.18	8.13	2.79	2.61
--------	87911-3609	--------	36	-----	3	45.72	43.18	8.13	2.79	2.61
--------	87911-3807	--------	38	-----	1	48.26	45.72	8.13	2.79	2.61
--------	87911-3808	--------	38	-----	2	48.26	45.72	8.13	2.79	2.61
--------	87911-3809	--------	38	-----	3	48.26	45.72	8.13	2.79	2.61

PDR#1872.ADD 879112610
EC NO: S2009-0252 2008/10/15
DRWN:YMCHONG 2008/10/16
CH'KD:SKANG
APPR:MLONG 2008/10/16
DESCRIPTION
REV
B2

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: SKLIM01 DATE: 2006/01/24
CHECKED BY: PATEY DATE: 2006/02/08
APPROVED BY: PATEY DATE: 2006/02/08
MATERIAL NO.: SEE TABLE

TITLE
CUSTOM HEADER
C-GRID, DUAL ROW HEADER
SINGLE WAFER, R/A
MOLEX INCORPORATED

DOCUMENT NO.: SD-87911-037
SHEET NO.: 3 OF 5

SIZE A3

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PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
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
--------	87911-4008	--------	40	-----	2	50.80	48.26	8.13	2.79	2.61
--------	87911-4009	--------	40	-----	3	50.80	48.26	8.13	2.79	2.61
--------	87911-4207	--------	42	-----	1	53.34	50.80	8.13	2.79	2.61
--------	87911-4208	--------	42	-----	2	53.34	50.80	8.13	2.79	2.61
--------	87911-4209	--------	42	-----	3	53.34	50.80	8.13	2.79	2.61
--------	87911-4407	--------	44	-----	1	55.88	53.34	8.13	2.79	2.61
--------	87911-4408	--------	44	-----	2	55.88	53.34	8.13	2.79	2.61
--------	87911-4409	--------	44	-----	3	55.88	53.34	8.13	2.79	2.61
--------	87911-4607	--------	46	-----	1	58.42	55.88	8.13	2.79	2.61
--------	87911-4608	--------	46	-----	2	58.42	55.88	8.13	2.79	2.61
--------	87911-4609	--------	46	-----	3	58.42	55.88	8.13	2.79	2.61
--------	87911-4807	--------	48	-----	1	60.96	58.42	8.13	2.79	2.61
--------	87911-4808	--------	48	-----	2	60.96	58.42	8.13	2.79	2.61
--------	87911-4809	--------	48	-----	3	60.96	58.42	8.13	2.79	2.61
--------	87911-5007	--------	50	-----	1	63.50	60.96	8.13	2.79	2.61
--------	87911-5008	--------	50	-----	2	63.50	60.96	8.13	2.79	2.61
--------	87911-5009	--------	50	-----	3	63.50	60.96	8.13	2.79	2.61

PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
TRAY	TUBE WITHOUT CAP	TUBE WITH CAP				A	B	M	P	E
--------	87911-5207	--------	52	-----	1	66.04	63.50	8.13	2.79	2.61
--------	87911-5208	--------	52	-----	2	66.04	63.50	8.13	2.79	2.61
--------	87911-5209	--------	52	-----	3	66.04	63.50	8.13	2.79	2.61
--------	87911-5407	--------	54	-----	1	68.58	66.04	8.13	2.79	2.61
--------	87911-5408	--------	54	-----	2	68.58	66.04	8.13	2.79	2.61
--------	87911-5409	--------	54	-----	3	68.58	66.04	8.13	2.79	2.61
--------	87911-5607	--------	56	-----	1	71.12	68.58	8.13	2.79	2.61
--------	87911-5608	--------	56	-----	2	71.12	68.58	8.13	2.79	2.61
--------	87911-5609	--------	56	-----	3	71.12	68.58	8.13	2.79	2.61
--------	87911-5807	--------	58	-----	1	73.66	71.12	8.13	2.79	2.61
--------	87911-5808	--------	58	-----	2	73.66	71.12	8.13	2.79	2.61
--------	87911-5809	--------	58	-----	3	73.66	71.12	8.13	2.79	2.61
--------	87911-6007	--------	60	-----	1	76.20	73.66	8.13	2.79	2.61
--------	87911-6008	--------	60	-----	2	76.20	73.66	8.13	2.79	2.61
--------	87911-6009	--------	60	-----	3	76.20	73.66	8.13	2.79	2.61
--------	87911-6207	--------	62	-----	1	78.74	76.20	8.13	2.79	2.61
--------	87911-6208	--------	62	-----	2	78.74	76.20	8.13	2.79	2.61
--------	87911-6209	--------	62	-----	3	78.74	76.20	8.13	2.79	2.61

PDR#1872.ADD 879112610
EC NO: S2009-0252 2008/10/15
DRWN:YMCHONG 2008/10/16
CH'KD:SKANG
APPR:MLONG
DESCRIPTION
REV
B2

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: SKLIM01 DATE: 2006/01/24
CHECKED BY: PATEY DATE: 2006/02/08
APPROVED BY: PATEY DATE: 2006/02/08
MATERIAL NO.: SEE TABLE

TITLE
CUSTOM HEADER
C-GRID, DUAL ROW HEADER
SINGLE WAFER, R/A

molex MOLEX INCORPORATED

DOCUMENT NO.: SD-87911-037
SHEET NO.: 4 OF 5

SIZE A3

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PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
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
--------	87911-6408	--------	64	-----	2	81.28	78.74	8.13	2.79	2.61
--------	87911-6409	--------	64	-----	3	81.28	78.74	8.13	2.79	2.61
--------	87911-6607	--------	66	-----	1	83.82	81.28	8.13	2.79	2.61
--------	87911-6608	--------	66	-----	2	83.82	81.28	8.13	2.79	2.61
--------	87911-6609	--------	66	-----	3	83.82	81.28	8.13	2.79	2.61
--------	87911-6807	--------	68	-----	1	86.36	83.82	8.13	2.79	2.61
--------	87911-6808	--------	68	-----	2	86.36	83.82	8.13	2.79	2.61
--------	87911-6809	--------	68	-----	3	86.36	83.82	8.13	2.79	2.61
--------	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
--------	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

PACKAGING OPTION PART NO.			CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
TRAY	TUBE WITHOUT CAP	TUBE WITH CAP				A	B	M	P	E
--------	87911-7607	--------	76	-----	1	96.52	93.98	8.13	2.79	2.61
--------	87911-7608	--------	76	-----	2	96.52	93.98	8.13	2.79	2.61
--------	87911-7609	--------	76	-----	3	96.52	93.98	8.13	2.79	2.61
--------	87911-7807	--------	78	-----	1	99.06	96.52	8.13	2.79	2.61
--------	87911-7808	--------	78	-----	2	99.06	96.52	8.13	2.79	2.61
--------	87911-7809	--------	78	-----	3	99.06	96.52	8.13	2.79	2.61
--------	87911-8007	--------	80	-----	1	101.60	99.06	8.13	2.79	2.61
--------	87911-8008	--------	80	-----	2	101.60	99.06	8.13	2.79	2.61
--------	87911-8009	--------	80	-----	3	101.60	99.06	8.13	2.79	2.61

PDR#1872.ADD 879112610
EC NO: S2009-0252 2008/10/15
DRWN:YMCHONG 2008/10/16
CH'KD:SKANG
APPR:MLONG 2008/10/16
DESCRIPTION
REV
B2

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: SKLIM01 DATE: 2006/01/24
CHECKED BY: PATEY DATE: 2006/02/08
APPROVED BY: PATEY DATE: 2006/02/08
MATERIAL NO.: SEE TABLE

TITLE
CUSTOM HEADER
C-GRID, DUAL ROW HEADER
SINGLE WAFER, R/A
MOLEX INCORPORATED

DOCUMENT NO.: SD-87911-037
SHEET NO.: 5 OF 5
SIZE: A3

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