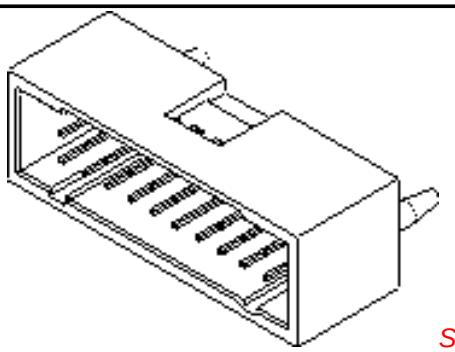
This document was generated on 03/31/2010

# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0015477562

**Status:** Active

**Description:** 2.54mm (.100") Pitch C-Grid® Header, Through Hole, Dual Row, Vertical, High Temperature, Shrouded, with Peg, 62 Circuits, Tin (Sn) Plating



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
Product Specification PS-70567 (PDF)
RoHS Certificate of Compliance (PDF)

## Agency Certification

| | |
|---|---|
| CSA | LR19980 |
| UL | E29179 |

## General

| | |
|---|---|
| Product Family | PCB Headers |
| Series | 70568 |
| Application | Wire-to-Board |
| Product Name | C-Grid® |

## Physical

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 62 |
| 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 | Yes |
| Material - Metal | Brass, Phosphor Bronze |
| Material - Plating Mating | Tin-Lead |
| Material - Resin | High Temperature Thermoplastic |
| Number of Rows | 2 |
| Orientation | Vertical |
| PC Tail Length (in) | 0.130 In |
| PC Tail Length (mm) | 3.30 mm |
| PCB Locator | No |
| PCB Retention | Yes |
| PCB Thickness Recommended (in) | 0.093 In |
| PCB Thickness Recommended (mm) | 2.40 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) | 150 |
| Plating min: Mating (µm) | 3.80 |
| Polarized to Mating Part | Yes |
| Polarized to PCB | Yes |
| Shrouded | Fully |
| Stackable | No |
| Surface Mount Compatible (SMC) | No |
| Temperature Range - Operating | -55°C to +105°C |
| Termination Interface: Style | Through Hole |

## Electrical

**EU RoHS**
**ELV and RoHS Compliant**
**REACH SVHC**
**Contains SVHC: No**
**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**
70568Series

| | |
|---|---|
| Current - Maximum per Contact | 2.5A |
| Voltage - Maximum | 250V |

## Solder Process Data

| | |
|---|---|
| Duration at Max. Process Temperature (seconds) | 5 |
| Lead-free Process Capability | SMC & Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature | 1 |
| Process Temperature max. C | 245 |

## Material Info

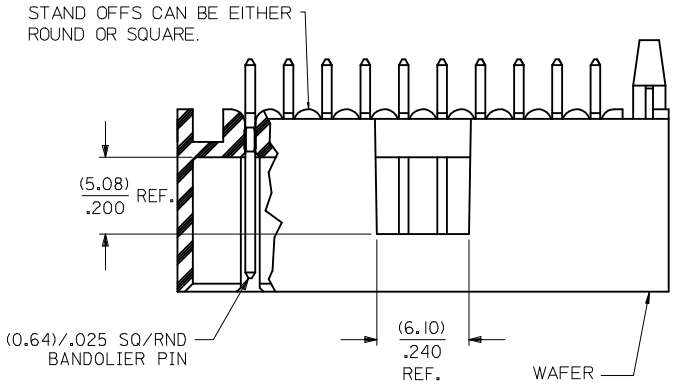
| | |
|---|---|
| Old Part Number | A-70568-0029 |

## Reference - Drawing Numbers

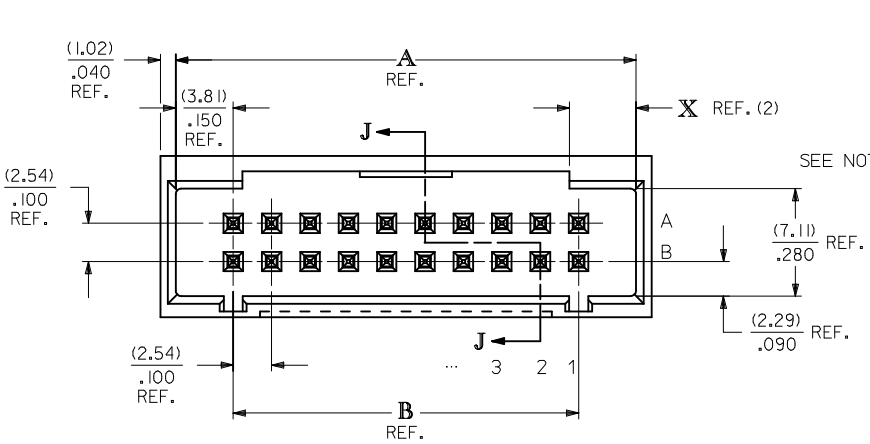
| | |
|---|---|
| Product Specification | PS-70567 |
| Sales Drawing | SDA-70568-**** |

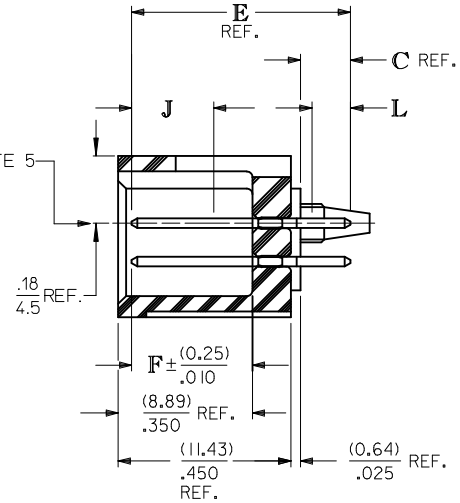
This document was generated on 03/31/2010

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

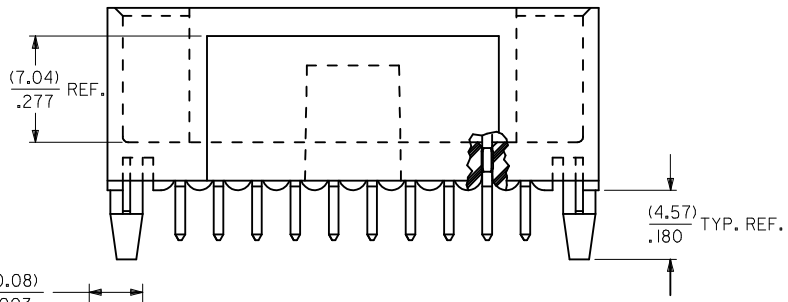


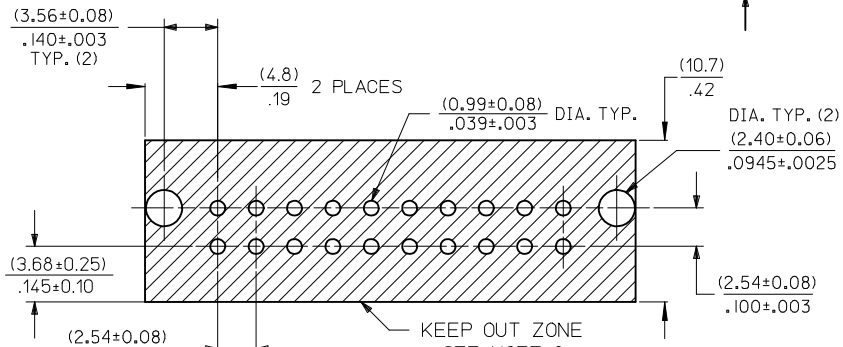

NOTES:
1. MATERIAL: WAFER - GLASS FILLED LIQUID CRYSTAL POLYMER; UL 94V-0; COLOR: BLACK. PIN: COPPER ALLOY.
2. PLATING: TIN TIN(Sn) ALLOY OVER ENTIRE PIN: THICKNESS = (3.81 MICROMETER)/ 150 MICROINCH MINIMUM, NICKEL (Ni) UNDERPLATE OVER ENTIRE PIN.
   15 GOLD SELECTIVE GOLD (Au) IN THE CONTACT AREA: THICKNESS = (0.38MICROMETER)/ 15 MICROINCH MINIMUM; SELECTIVE TIN (Sn) ALLOY IN THE PC TAIL AREA: THICKNESS = (1.91 MICROMETER)/ 75 MICROINCH MINIMUM, NICKEL (Ni) UNDERPLATE OVER ENTIRE PIN.
   30 GOLD SELECTIVER GOLD (Au) IN THE CONTACT AREA: THICKNESS = (0.76 MICROMETER)/ 30 MICROINCH MINIMUM; SELECTIVE TIN (Sn) ALLOY IN THE PC TAIL AREA: THICKNESS = (1.91 MICROMETER)/ 75 MICROINCH MINIMUM, NICKEL (Ni) UNDERPLATE OVER ENTIRE PIN.
   * THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.
3. PRODUCT SPECIFICATION: PS-70567.
4. PACKAGING: SEE CHARTS
5. PIN PUSHOUT FORCE: 4 LS. MIN. IN DIRECTION INDICATED.
6. FOR ILLUSTRATION PURPOSES, 20 (DUAL 10) CIRCUIT SIZE IS SHOWN.
7. PINS MUST MEET SOLDERABILITY SPEC. SMES-152, EXCEPT VOIDS ARE PERMISSIBLE AT BANDOLIER PIN FAYING SURFACE. (APPROX. (0.64)/.025 LNG X (0.15)/.006 WD. REF.) - 2 LOCATIONS
8. NO FEATURES WHICH RISE ABOVE THE PCB SURFACE ALLOWED IN THIS AREA.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC PS-45499-002.




**SECTION J-J**




**RECOMMENDED P.C. BOARD HOLE LAYOUT**

| CKT. SIZE | DIM. A REF. (MM) | DIM. A REF. INCH | DIM. B REF. (MM) | DIM. B REF. INCH | DIM. X REF. (MM) | DIM. X REF. INCH |
|---|---|---|---|---|---|---|
| 6 | (12.70) | .500 | (5.08) | .200 | (3.18) | .125 |
| 8 | (15.24) | .600 | (7.62) | .300 | (4.42) | .174 |
| 10 | (17.78) | .700 | (10.16) | .400 | (4.42) | .174 |
| 12 | (20.32) | .800 | (12.70) | .500 | (4.42) | .174 |
| 14 | (22.86) | .900 | (15.24) | .600 | (4.42) | .174 |
| 16 | (25.40) | 1.000 | (17.78) | .700 | (4.42) | .174 |
| 18 | (27.94) | 1.100 | (20.32) | .800 | (4.42) | .174 |
| 20 | (30.48) | 1.200 | (22.86) | .900 | (4.42) | .174 |
| 22 | (33.02) | 1.300 | (25.40) | 1.000 | (4.42) | .174 |
| 24 | (35.56) | 1.400 | (27.94) | 1.100 | (4.42) | .174 |
| 26 | (38.10) | 1.500 | (30.48) | 1.200 | (4.42) | .174 |
| 28 | (40.64) | 1.600 | (33.02) | 1.300 | (4.42) | .174 |
| 30 | (43.18) | 1.700 | (35.56) | 1.400 | (4.42) | .174 |
| 32 | (45.72) | 1.800 | (38.10) | 1.500 | (4.42) | .174 |
| 34 | (48.26) | 1.900 | (40.64) | 1.600 | (4.42) | .174 |
| 36 | (50.80) | 2.000 | (43.18) | 1.700 | (4.42) | .174 |
| 38 | (53.34) | 2.100 | (45.72) | 1.800 | (4.42) | .174 |
| 40 | (55.88) | 2.200 | (48.26) | 1.900 | (4.42) | .174 |
| 42 | (58.42) | 2.300 | (50.80) | 2.000 | (4.42) | .174 |
| 44 | (60.96) | 2.400 | (53.34) | 2.100 | (4.42) | .174 |
| 46 | (63.50) | 2.500 | (55.88) | 2.200 | (4.42) | .174 |
| 48 | (66.04) | 2.600 | (58.42) | 2.300 | (4.42) | .174 |
| 50 | (68.58) | 2.700 | (60.96) | 2.400 | (4.42) | .174 |
| 52 | (71.12) | 2.800 | (63.50) | 2.500 | (4.42) | .174 |
| 54 | (73.66) | 2.900 | (66.04) | 2.600 | (4.42) | .174 |
| 56 | (76.20) | 3.000 | (68.58) | 2.700 | (4.42) | .174 |
| 58 | (78.74) | 3.100 | (71.12) | 2.800 | (4.42) | .174 |
| 60 | (81.28) | 3.200 | (73.66) | 2.900 | (4.42) | .174 |
| 62 | (83.82) | 3.300 | (76.20) | 3.000 | (4.42) | .174 |
| 64 | (86.36) | 3.400 | (78.74) | 3.100 | (4.42) | .174 |
| 66 | (88.90) | 3.500 | (81.28) | 3.200 | (4.42) | .174 |
| 68 | (91.44) | 3.600 | (83.82) | 3.300 | (4.42) | .174 |
| 70 | (93.98) | 3.700 | (86.36) | 3.400 | (4.42) | .174 |
| 72 | (96.52) | 3.800 | (88.90) | 3.500 | (4.42) | .174 |

| SHT | REV |
|---|---|
| 2 | G |
| 1 | H |

MODIFIED NOTES
EC NO: UCP2009-0336 2008/09/23
DRWN: JKLOSTEMEIER 2008/09/24
CHKD: JBELL 2008/09/25
APPR: FSMITH 2008/09/25
DESCRIPTION
H
REV

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .005 |
| 2 PLACES | ± 0.13 | ± .01 |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 4:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: SMR DATE: 1993/11/10
CHECKED BY: SMR DATE: 1993/11/10
APPROVED BY: DATE:

TITLE: SALES ASSY - DUAL ROW SHROUDED WAFER/HI TEMP .25SQ/RND PINS .100 GRID

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-70568-****
SHEET NO.: 1 OF 2

SIZE C

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

| ENGINEERING NUMBER A-70568 | RELEASE FOR MANUFACTURE | | | C REF. | | E REF. | F ± (0.25)/.010 | | | | CONNECTOR END PLATING TYPE | | J MINIMUM LENGTH | P.C. BOARD END PLATING TYPE | | L MINIMUM LENGTH | SEE PACK INFORMA. DRAWING PK-70873 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -0001/0034 | R.F.M. | | | (3.30) .130 | | (14.48) .570 | (8.00) .315 | | | | TIN | | OVER-ALL | TIN | | OVER-ALL | -0018 |
| -0035/-0068 | R.F.M. | | | (3.30) .130 | | (14.48) .570 | (8.00) .315 | | | | 15 GOLD | | (5.08) .200 | TIN | | (3.56) .140 | -0018 |
| -0069/-0102 | R.F.M. | | | (3.30) .130 | | (14.48) .570 | (8.00) .315 | | | | 30 GOLD | | (5.08) .200 | TIN | | (3.56) .140 | -0018 |
| -0103/-0136 | | | | | | | | | | | | | | | | | |
| -0137/-0170 | | | | | | | | | | | | | | | | | |
| -0171/-0204 | | | | | | | | | | | | | | | | | |
| -0205/-0238 | | | | | | | | | | | | | | | | | |

| CKTS | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | EDP NUMBER | ENG NUMBER | CKTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06 | 15-47-7506 | A-70568-0001 | 15-47-7606 | A-70568-0035 | 15-47-7706 | A-70568-0069 | | A-70568-0103 | | A-70568-0137 | | A-70568-0171 | | A-70568-0205 | 06 |
| 08 | 15-47-7508 | A-70568-0002 | 15-47-7608 | A-70568-0036 | 15-47-7708 | A-70568-0070 | | A-70568-0104 | | A-70568-0138 | | A-70568-0172 | | A-70568-0206 | 08 |
| 10 | 15-47-7510 | A-70568-0003 | 15-47-7610 | A-70568-0037 | 15-47-7710 | A-70568-0071 | | A-70568-0105 | | A-70568-0139 | | A-70568-0173 | | A-70568-0207 | 10 |
| 12 | 15-47-7512 | A-70568-0004 | 15-47-7612 | A-70568-0038 | 15-47-7712 | A-70568-0072 | | A-70568-0106 | | A-70568-0140 | | A-70568-0174 | | A-70568-0208 | 12 |
| 14 | 15-47-7514 | A-70568-0005 | 15-47-7614 | A-70568-0039 | 15-47-7714 | A-70568-0073 | | A-70568-0107 | | A-70568-0141 | | A-70568-0175 | | A-70568-0209 | 14 |
| 16 | 15-47-7516 | A-70568-0006 | 15-47-7616 | A-70568-0040 | 15-47-7716 | A-70568-0074 | | A-70568-0108 | | A-70568-0142 | | A-70568-0176 | | A-70568-0210 | 16 |
| 18 | 15-47-7518 | A-70568-0007 | 15-47-7618 | A-70568-0041 | 15-47-7718 | A-70568-0075 | | A-70568-0109 | | A-70568-0143 | | A-70568-0177 | | A-70568-0211 | 18 |
| 20 | 15-47-7520 | A-70568-0008 | 15-47-7620 | A-70568-0042 | 15-47-7720 | A-70568-0076 | | A-70568-0110 | | A-70568-0144 | | A-70568-0178 | | A-70568-0212 | 20 |
| 22 | 15-47-7522 | A-70568-0009 | 15-47-7622 | A-70568-0043 | 15-47-7722 | A-70568-0077 | | A-70568-0111 | | A-70568-0145 | | A-70568-0179 | | A-70568-0213 | 22 |
| 24 | 15-47-7524 | A-70568-0010 | 15-47-7624 | A-70568-0044 | 15-47-7724 | A-70568-0078 | | A-70568-0112 | | A-70568-0146 | | A-70568-0180 | | A-70568-0214 | 24 |
| 26 | 15-47-7526 | A-70568-0011 | 15-47-7626 | A-70568-0045 | 15-47-7726 | A-70568-0079 | | A-70568-0113 | | A-70568-0147 | | A-70568-0181 | | A-70568-0215 | 26 |
| 28 | 15-47-7528 | A-70568-0012 | 15-47-7628 | A-70568-0046 | 15-47-7728 | A-70568-0080 | | A-70568-0114 | | A-70568-0148 | | A-70568-0182 | | A-70568-0216 | 28 |
| 30 | 15-47-7530 | A-70568-0013 | 15-47-7630 | A-70568-0047 | 15-47-7730 | A-70568-0081 | | A-70568-0115 | | A-70568-0149 | | A-70568-0183 | | A-70568-0217 | 30 |
| 32 | 15-47-7532 | A-70568-0014 | 15-47-7632 | A-70568-0048 | 15-47-7732 | A-70568-0082 | | A-70568-0116 | | A-70568-0150 | | A-70568-0184 | | A-70568-0218 | 32 |
| 34 | 15-47-7534 | A-70568-0015 | 15-47-7634 | A-70568-0049 | 15-47-7734 | A-70568-0083 | | A-70568-0117 | | A-70568-0151 | | A-70568-0185 | | A-70568-0219 | 34 |
| 36 | 15-47-7536 | A-70568-0016 | 15-47-7636 | A-70568-0050 | 15-47-7736 | A-70568-0084 | | A-70568-0118 | | A-70568-0152 | | A-70568-0186 | | A-70568-0220 | 36 |
| 38 | 15-47-7538 | A-70568-0017 | 15-47-7638 | A-70568-0051 | 15-47-7738 | A-70568-0085 | | A-70568-0119 | | A-70568-0153 | | A-70568-0187 | | A-70568-0221 | 38 |
| 40 | 15-47-7540 | A-70568-0018 | 15-47-7640 | A-70568-0052 | 15-47-7740 | A-70568-0086 | | A-70568-0120 | | A-70568-0154 | | A-70568-0188 | | A-70568-0222 | 40 |
| 42 | 15-47-7542 | A-70568-0019 | 15-47-7642 | A-70568-0053 | 15-47-7742 | A-70568-0087 | | A-70568-0121 | | A-70568-0155 | | A-70568-0189 | | A-70568-0223 | 42 |
| 44 | 15-47-7544 | A-70568-0020 | 15-47-7644 | A-70568-0054 | 15-47-7744 | A-70568-0088 | | A-70568-0122 | | A-70568-0156 | | A-70568-0190 | | A-70568-0224 | 44 |
| 46 | 15-47-7546 | A-70568-0021 | 15-47-7646 | A-70568-0055 | 15-47-7746 | A-70568-0089 | | A-70568-0123 | | A-70568-0157 | | A-70568-0191 | | A-70568-0225 | 46 |
| 48 | 15-47-7548 | A-70568-0022 | 15-47-7648 | A-70568-0056 | 15-47-7748 | A-70568-0090 | | A-70568-0124 | | A-70568-0158 | | A-70568-0192 | | A-70568-0226 | 48 |
| 50 | 15-47-7550 | A-70568-0023 | 15-47-7650 | A-70568-0057 | 15-47-7750 | A-70568-0091 | | A-70568-0125 | | A-70568-0159 | | A-70568-0193 | | A-70568-0227 | 50 |
| 52 | 15-47-7552 | A-70568-0024 | 15-47-7652 | A-70568-0058 | 15-47-7752 | A-70568-0092 | | A-70568-0126 | | A-70568-0160 | | A-70568-0194 | | A-70568-0228 | 52 |
| 54 | 15-47-7554 | A-70568-0025 | 15-47-7654 | A-70568-0059 | 15-47-7754 | A-70568-0093 | | A-70568-0127 | | A-70568-0161 | | A-70568-0195 | | A-70568-0229 | 54 |
| 56 | 15-47-7556 | A-70568-0026 | 15-47-7656 | A-70568-0060 | 15-47-7756 | A-70568-0094 | | A-70568-0128 | | A-70568-0162 | | A-70568-0196 | | A-70568-0230 | 56 |
| 58 | 15-47-7558 | A-70568-0027 | 15-47-7658 | A-70568-0061 | 15-47-7758 | A-70568-0095 | | A-70568-0129 | | A-70568-0163 | | A-70568-0197 | | A-70568-0231 | 58 |
| 60 | 15-47-7560 | A-70568-0028 | 15-47-7660 | A-70568-0062 | 15-47-7760 | A-70568-0096 | | A-70568-0130 | | A-70568-0164 | | A-70568-0198 | | A-70568-0232 | 60 |
| 62 | 15-47-7562 | A-70568-0029 | 15-47-7662 | A-70568-0063 | 15-47-7762 | A-70568-0097 | | A-70568-0131 | | A-70568-0165 | | A-70568-0199 | | A-70568-0233 | 62 |
| 64 | 15-47-7564 | A-70568-0030 | 15-47-7664 | A-70568-0064 | 15-47-7764 | A-70568-0098 | | A-70568-0132 | | A-70568-0166 | | A-70568-0200 | | A-70568-0234 | 64 |
| 66 | 15-47-7566 | A-70568-0031 | 15-47-7666 | A-70568-0065 | 15-47-7766 | A-70568-0099 | | A-70568-0133 | | A-70568-0167 | | A-70568-0201 | | A-70568-0235 | 66 |
| 68 | 15-47-7568 | A-70568-0032 | 15-47-7668 | A-70568-0066 | 15-47-7768 | A-70568-0100 | | A-70568-0134 | | A-70568-0168 | | A-70568-0202 | | A-70568-0236 | 68 |
| 70 | 15-47-7570 | A-70568-0033 | 15-47-7670 | A-70568-0067 | 15-47-7770 | A-70568-0101 | | A-70568-0135 | | A-70568-0169 | | A-70568-0203 | | A-70568-0237 | 70 |
| 72 | 15-47-7572 | A-70568-0034 | 15-47-7672 | A-70568-0068 | 15-47-7772 | A-70568-0102 | | A-70568-0136 | | A-70568-0170 | | A-70568-0204 | | A-70568-0238 | 72 |

MODIFY PLATE
EC NO: UCP2006-2806
DRWN:MSI BARRA 2006/05/31
CHKD:DMORGAN 2006/06/06
APPR:SMILLER 2006/06/07
DESCRIPTION
REV G

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .005 |
| 2 PLACES | ± 0.13 | ± .01 |
| 1 PLACE | ± 0.25 | ± --- |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: SMR DATE: 1993/11/10
CHECKED BY: SMR DATE: 1993/11/10
APPROVED BY: DATE:

TITLE: SALES ASSY-DUAL ROW SHROUDED WAFER/HIGH TEMP .025SQ/RND PIN .100 GRID

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-70568-****
SHEET NO.: 2 OF 2
SIZE: C

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