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Part Number:

0743370051

Status:

Active

Description:

0.80mm (.031") Pitch Ultra+™ VHDCI Wire-to-Board Receptacle, Stacked, Right Angle, with or without Enhanced Shield, Version 4 Footprint, 136 Circuits

Documents:

3D Model

Drawing (PDF)

Test Summary (PDF)

Product Specification PS-71425-9999 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

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

General

|                |                |
|----------------|----------------|
| Product Family | I/O Connectors |
| Series         | 74337          |
| Application    | Wire-to-Board  |
| Comments       | With Top Cover |
| Component Type | Receptacle     |
| Product Name   | SCSI+, VHDCI   |
| Type           | N/A            |

Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Boot Color                     | N/A                            |
| Circuits (Loaded)              | 136                            |
| Circuits (maximum)             | 136                            |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 500                            |
| Flammability                   | 94V-0                          |
| Gender                         | Female                         |
| Lock to Mating Part            | Yes                            |
| Material - Metal               | Brass                          |
| Material - Plating Mating      | Tin                            |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 4                              |
| Orientation                    | Right Angle                    |
| PC Tail Length (in)            | 0.082 In                       |
| PC Tail Length (mm)            | 2.08 mm                        |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.063 In                       |
| PCB Thickness Recommended (mm) | 1.60 mm                        |
| Packaging Type                 | Tray                           |
| Panel Mount                    | No                             |
| Pitch - Mating Interface (in)  | 0.031 In                       |
| Pitch - Mating Interface (mm)  | 0.80 mm                        |
| Pitch - Term. Interface (in)   | 0.031 In                       |
| Pitch - Term. Interface (mm)   | 0.80 mm                        |
| Plating min: Mating (µin)      | 40                             |
| Plating min: Mating (µm)       | 1.00                           |
| Plating min: Termination (µin) | 40                             |
| Plating min: Termination (µm)  | 1.00                           |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |

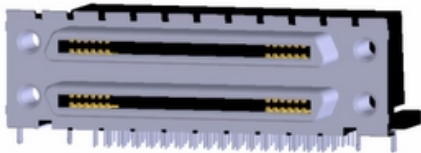


image - Reference onlySeries

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Pb

Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto: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  
74337Series

Mates With  
Ultra+™ VHDCI Plug Kit 71425

|                                |                |
|--------------------------------|----------------|
| Ports                          | 2              |
| Surface Mount Compatible (SMC) | Yes            |
| Temperature Range - Operating  | -55°C to +85°C |
| Termination Interface: Style   | Through Hole   |
| Waterproof / Dustproof         | No             |
| Wire Size AWG                  | N/A            |

**Electrical**

|                               |                 |
|-------------------------------|-----------------|
| Current - Maximum per Contact | 0.5A            |
| Shield Type                   | Full Shield     |
| Shielded                      | Yes             |
| Voltage - Maximum             | 30V AC (RMS)/DC |

**Solder Process Data**

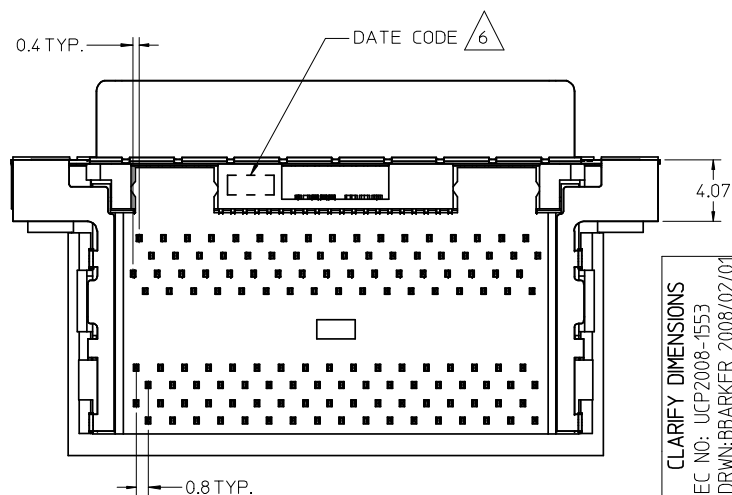
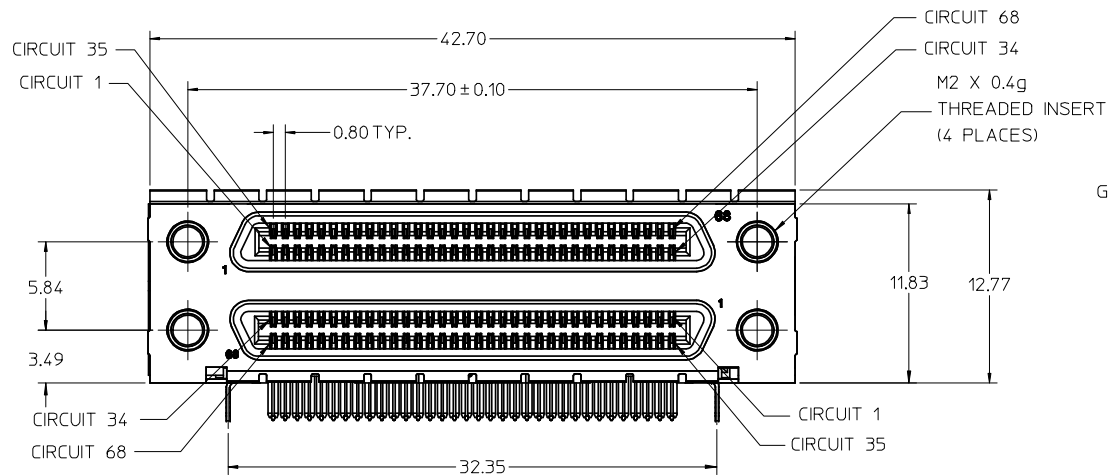
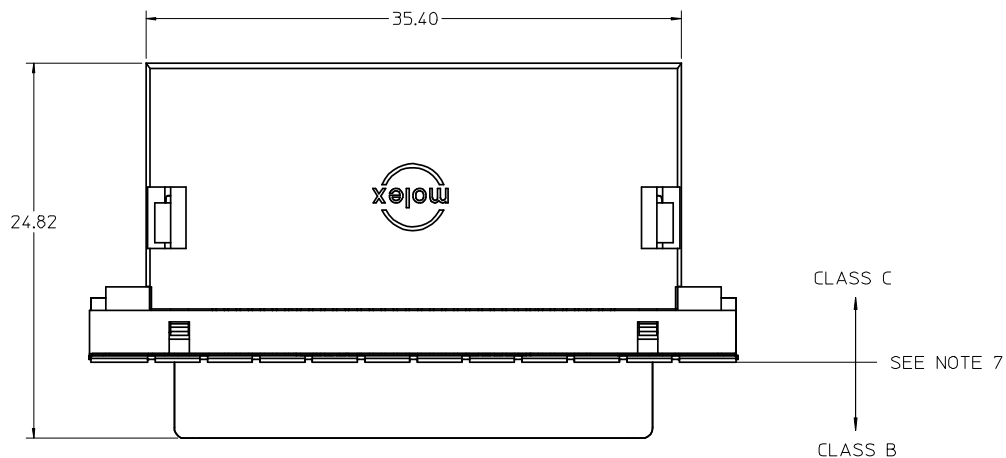
|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 40                     |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 3                      |
| Process Temperature max. C                     | 245                    |

**Material Info**

**Reference - Drawing Numbers**

|                         |               |
|-------------------------|---------------|
| Packaging Specification | PK-74337-001  |
| Product Specification   | PS-71425-9999 |
| Sales Drawing           | SD-74337-014  |

This document was generated on 05/28/2010  
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## NOTES:

## 1. MATERIALS:

HOUSING, COVER, AND TAIL ALIGNER: HIGH TEMPERATURE THERMOPLASTIC, UL94, V-0 RATED, COLOR: BLACK  
 TERMINAL: PHOSPHOR BRONZE ALLOY  
 BRACKET: BRASS  
 SHELL: STEEL  
 INSERT: BRASS

## 2. FINISHES:

TERMINAL: 0.05-0.25 MICROMETERS GOLD FLASH IN CRITICAL AREA OVER 0.75 MICROMETERS MINIMUM PALLADIUM NICKEL IN CRITICAL AREA, 1.87 MICROMETERS MINIMUM TIN IN SOLDER TAIL AREA, ALL OVER NICKEL.  
 BRACKET: 5.0 MICROMETERS MINIMUM BRIGHT TIN.  
 SHIELD: 3.81 MICROMETERS MINIMUM BRIGHT TIN OVER 1.27 MICROMETERS MINIMUM NICKEL OVER COPPER FLASH (OPTIONAL).  
 INSERT: 2.54 MICROMETERS MINIMUM NICKEL.

## 3. PRODUCT SPECIFICATION: PS-71425-9999.

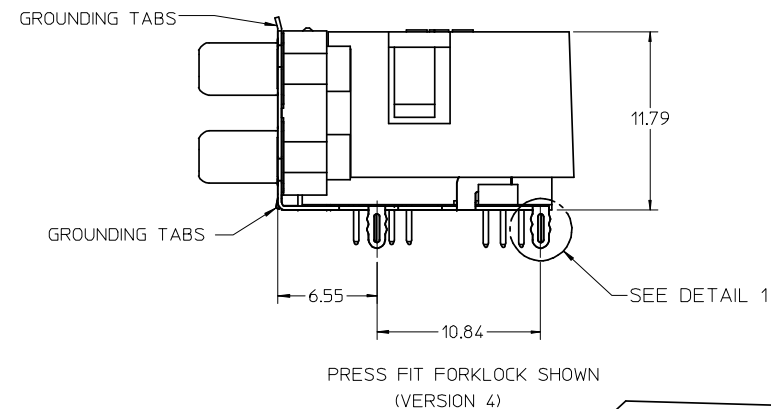
## 4. PACKAGING SPECIFICATION: TRAY PACK PER PK-74337-001.

## 5. APPLICABLE STANDARDS: EIA-700A0AF AND SFF-8441.

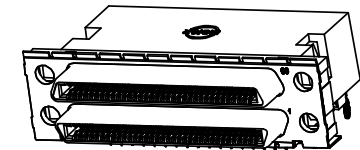
## 6. DATE CODE: YR/WK PER EIA-476-A.

## 7. PRODUCT COMPLIES WITH COSMETIC SPECIFICATION PS-45499-002. SEE FIGURE AT LEFT FOR SURFACE CLASSIFICATIONS.

## 8. TORQUE TO INSTALL SCREWLOCKS INTO THREADED INSERTS: 0.34 Nm MAXIMUM.

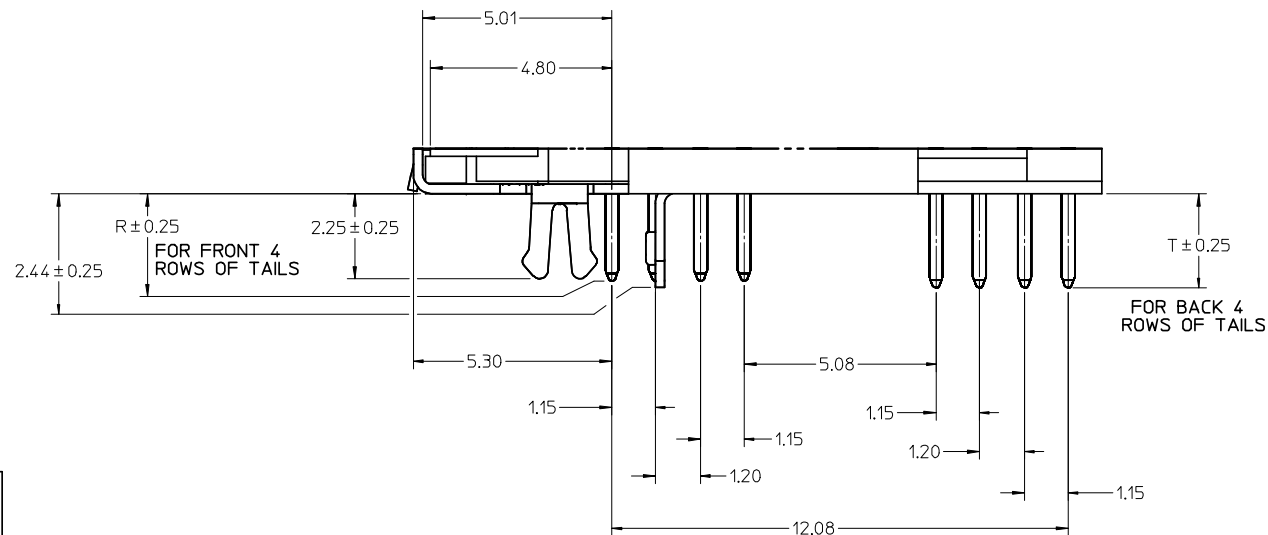
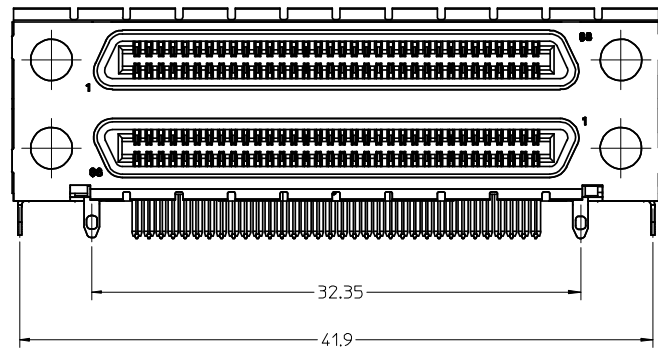
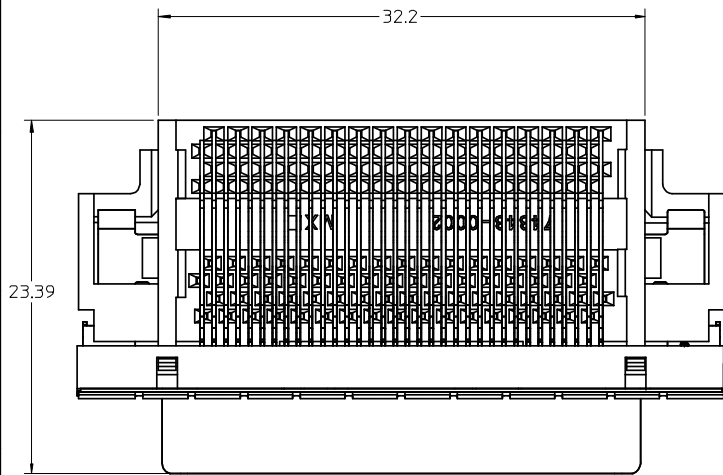


## WITH COVER OPTION

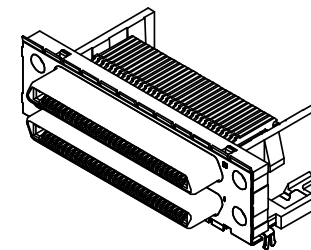
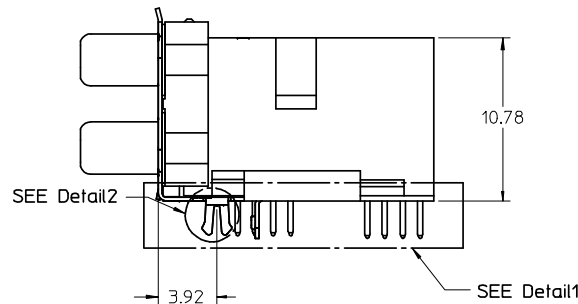


|                                                                                                                            |             |                                                       |                                       |  |                                                                                                                               |              |                            |                        |                                 |                    |                              |  |                     |
|----------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------|---------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|------------------------|---------------------------------|--------------------|------------------------------|--|---------------------|
| CLARIFY DIMENSIONS<br>EC NO: UCP2008-1553<br>DRWN:BBARKER 2008/02/01<br>CHKD:DMORGAN 2008/02/07<br>APPR:SMILLER 2008/02/08 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽ = 0</div> <div>▽C = 0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED) |  |                                                                                                                               | SCALE<br>3:1 | DESIGN UNITS<br>METRIC     | THIRD ANGLE PROJECTION |                                 | REVISE ON CAD ONLY |                              |  |                     |
|                                                                                                                            |             |                                                       |                                       |  |                                                                                                                               |              | DIMENSION STYLE<br>MM ONLY |                        | TITLE<br>VHDCI STACKED ASSEMBLY |                    |                              |  |                     |
|                                                                                                                            |             |                                                       | 4 PLACES ± --- ± ---                  |  | DRAWN BY<br>SSAMPSON                                                                                                          |              | DATE<br>05.08.2001         |                        |                                 |                    |                              |  |                     |
|                                                                                                                            |             |                                                       | 3 PLACES ± --- ± ---                  |  |                                                                                                                               |              |                            |                        |                                 |                    |                              |  |                     |
|                                                                                                                            |             |                                                       | 2 PLACES ± 0.13 ± ---                 |  |                                                                                                                               |              |                            |                        |                                 |                    |                              |  |                     |
|                                                                                                                            |             |                                                       | 1 PLACE ± 0.25 ± ---                  |  |                                                                                                                               |              |                            |                        |                                 |                    |                              |  |                     |
|                                                                                                                            |             |                                                       | ANGULAR ± 1 °                         |  | CHECKED BY<br>MBANAKIS                                                                                                        |              | DATE<br>05.08.2001         |                        | MOLEX MOLEX INCORPORATED        |                    |                              |  |                     |
|                                                                                                                            |             |                                                       | DRAFT WHERE APPLICABLE                |  | APPROVED BY<br>MBANAKIS                                                                                                       |              | DATE<br>05.08.2001         |                        | MATERIAL NO.<br>SEE TABLE       |                    | DOCUMENT NO.<br>SD-74337-014 |  | SHEET NO.<br>1 OF 4 |
|                                                                                                                            |             |                                                       | MUST REMAIN WITHIN DIMENSIONS         |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                            |                        |                                 |                    |                              |  |                     |
|                                                                                                                            |             |                                                       |                                       |  | C                                                                                                                             |              |                            |                        |                                 |                    |                              |  |                     |

12 11 10 9 8 7 6 5 4 3 2 74337



Detail1  
SCALE 10:1

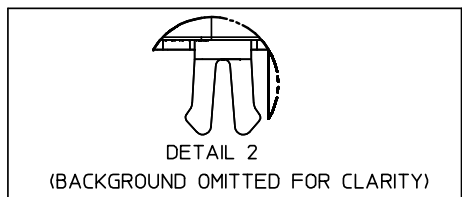


### WITHOUT COVER OPTION

|                                                                                                                            |             |                                                       |                                       |        |              |                                                         |                                                                                                                               |                                 |                    |                           |  |                              |                     |
|----------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------|---------------------------------------|--------|--------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------|---------------------------|--|------------------------------|---------------------|
| CLARIFY DIMENSIONS<br>EC NO: UCP2008-1553<br>DRWN:BBARKER 2008/02/01<br>CHKD:DMORGAN 2008/02/07<br>APPR:SMILLER 2008/02/08 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽ = 0</div> <div>▽C = 0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | SCALE<br>4:1 | DESIGN UNITS<br>METRIC                                  | THIRD ANGLE PROJECTION                                                                                                        |                                 | REVISE ON CAD ONLY |                           |  |                              |                     |
|                                                                                                                            |             |                                                       |                                       | mm     | INCH         | DIMENSION STYLE<br>MM ONLY                              |                                                                                                                               | TITLE<br>VHDCI STACKED ASSEMBLY |                    |                           |  |                              |                     |
|                                                                                                                            |             |                                                       | 4 PLACES                              | ± ---  | ± ---        | DRAWN BY<br>SSAMPSON                                    |                                                                                                                               | DATE<br>05.08.2001              |                    |                           |  |                              |                     |
|                                                                                                                            |             |                                                       | 3 PLACES                              | ± ---  | ± ---        | CHECKED BY<br>MBANAKIS                                  |                                                                                                                               | DATE<br>05.08.2001              |                    | molex MOLEX INCORPORATED  |  |                              |                     |
|                                                                                                                            |             |                                                       | 2 PLACES                              | ± 0.13 | ± ---        | APPROVED BY<br>MBANAKIS                                 |                                                                                                                               | DATE<br>05.08.2001              |                    | MATERIAL NO.<br>SEE TABLE |  | DOCUMENT NO.<br>SD-74337-014 | SHEET NO.<br>2 OF 4 |
|                                                                                                                            |             |                                                       | 1 PLACE                               | ± 0.25 | ± ---        | DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS |                                                                                                                               |                                 |                    |                           |  |                              |                     |
|                                                                                                                            |             |                                                       | ANGULAR ± 1 °                         |        |              |                                                         |                                                                                                                               |                                 |                    |                           |  |                              |                     |
|                                                                                                                            |             |                                                       |                                       |        |              |                                                         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                 |                    |                           |  |                              |                     |
|                                                                                                                            |             |                                                       |                                       |        |              |                                                         |                                                                                                                               |                                 |                    |                           |  |                              |                     |
|                                                                                                                            |             |                                                       |                                       |        |              |                                                         |                                                                                                                               |                                 |                    |                           |  |                              |                     |

11 10 9 8 7 6 5 4 3 2 1

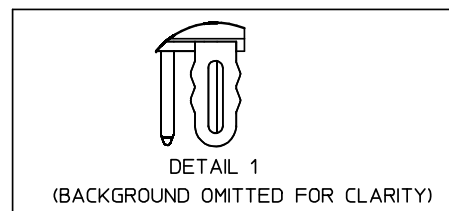
VERSION 1 PART NUMBERS



BOARD RETENTION: SNAP FIT

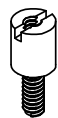
| PCB THICKNESS | COVER | R DIM. | T DIM. | INCLUDES LOOSE PACKED SCREWLOCKS 71433-0002 SEE DRAWING SD-71433-005 | GROUNDING TABS | PART NUMBER |
|---------------|-------|--------|--------|----------------------------------------------------------------------|----------------|-------------|
| 1.60±0.16     | YES   | 2.30   | 2.48   | NO                                                                   | YES            | 74337-0011  |
| 1.60±0.16     | YES   | 2.08   |        | NO                                                                   | YES            | 74337-0012  |
| 1.60±0.16     | NO    | 2.30   | 2.48   | NO                                                                   | YES            | 74337-0015  |
| 1.60±0.16     | NO    | 2.08   |        | NO                                                                   | YES            | 74337-0016  |
| 1.60±0.16     | YES   | 2.30   | 2.48   | YES                                                                  | YES            | 74337-0037  |
| 1.60±0.16     | YES   | 2.08   |        | YES                                                                  | YES            | 74337-0038  |
| 1.60±0.16     | NO    | 2.30   | 2.48   | YES                                                                  | YES            | 74337-0039  |
| 1.60±0.16     | NO    | 2.08   |        | YES                                                                  | YES            | 74337-0040  |
| 2.36±0.16     | YES   | 3.44   | 3.62   | NO                                                                   | YES            | 74337-0070  |
| 2.36±0.16     | NO    | 3.44   | 3.62   | NO                                                                   | YES            | 74337-0071  |
| 2.36±0.16     | YES   | 3.44   | 3.62   | YES                                                                  | YES            | 74337-0072  |
| 2.36±0.16     | NO    | 3.44   | 3.62   | YES                                                                  | YES            | 74337-0073  |
| 1.60±0.16     | YES   | 2.08   |        | INSTALLED ON PART                                                    | YES            | 74337-1038  |

VERSION 4 PART NUMBERS



BOARD RETENTION: PRESS FIT

| PCB THICKNESS | COVER | R DIM. | T DIM. | INCLUDES LOOSE PACKED SCREWLOCKS 71433-0002 SEE DRAWING SD-71433-005 | GROUNDING TABS | PART NUMBER |
|---------------|-------|--------|--------|----------------------------------------------------------------------|----------------|-------------|
| 1.60±0.16     | YES   | 2.30   | 2.48   | NO                                                                   | YES            | 74337-0050  |
| 1.60±0.16     | YES   | 2.08   |        | NO                                                                   | NO             | 74337-0051  |
| 1.60±0.16     | NO    | 2.30   | 2.48   | NO                                                                   | YES            | 74337-0060  |
| 1.60±0.16     | NO    | 2.08   |        | NO                                                                   | YES            | 74337-0061  |
| 1.60±0.16     | YES   | 2.08   |        | NO                                                                   | YES            | 74337-0066  |
| 1.60±0.16     | YES   | 2.30   | 2.48   | YES                                                                  | YES            | 74337-0053  |
| 1.60±0.16     | YES   | 2.08   |        | YES                                                                  | YES            | 74337-0054  |
| 1.60±0.16     | NO    | 2.30   | 2.48   | YES                                                                  | YES            | 74337-0063  |
| 1.60±0.16     | NO    | 2.08   |        | YES                                                                  | YES            | 74337-0064  |
| 2.36±0.16     | YES   | 3.44   | 3.62   | NO                                                                   | YES            | 74337-0052  |
| 2.36±0.16     | NO    | 3.44   | 3.62   | NO                                                                   | YES            | 74337-0062  |
| 2.36±0.16     | YES   | 3.44   | 3.62   | YES                                                                  | YES            | 74337-0055  |
| 2.36±0.16     | NO    | 3.44   | 3.62   | YES                                                                  | YES            | 74337-0065  |
| 1.60±0.16     | YES   | 2.08   |        | INSTALLED ON PART                                                    | YES            | 74337-1054  |



OPTIONAL SCREWLOCK  
71433-0002

|                                                                                                                             |             |                                                      |                                                         |        |                                                                                                                               |                            |                        |                                 |                    |                                                                                                     |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------|---------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------|---------------------------------|--------------------|-----------------------------------------------------------------------------------------------------|--|--|--|
| CLARIFY DIMENSIONS<br>EC NO: UCP2008-1553<br>DRWN:BBARKER 2008/02/01<br>CHKD:DMORGAN 2008/02/07<br>APPR: SMILLER 2008/02/08 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽ = 0</div> <div>▽ = 0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                   |        | SCALE<br>3:1                                                                                                                  | DESIGN UNITS<br>METRIC     | THIRD ANGLE PROJECTION |                                 | REVISE ON CAD ONLY |                                                                                                     |  |  |  |
|                                                                                                                             |             |                                                      |                                                         | mm     | INCH                                                                                                                          | DIMENSION STYLE<br>MM ONLY |                        | TITLE<br>VHDCI STACKED ASSEMBLY |                    |                                                                                                     |  |  |  |
|                                                                                                                             |             |                                                      | 4 PLACES                                                | ± ---  | ± ---                                                                                                                         | DRAWN BY<br>SSAMPSON       |                        | DATE<br>05.08.2001              |                    | MOLEX MOLEX INCORPORATED<br>MATERIAL NO. SEE TABLE<br>DOCUMENT NO. SD-74337-014<br>SHEET NO. 3 OF 4 |  |  |  |
|                                                                                                                             |             |                                                      | 3 PLACES                                                | ± ---  | ± ---                                                                                                                         | CHECKED BY<br>MBANAKIS     |                        | DATE<br>05.08.2001              |                    |                                                                                                     |  |  |  |
|                                                                                                                             |             |                                                      | 2 PLACES                                                | ± 0.13 | ± ---                                                                                                                         | APPROVED BY<br>MBANAKIS    |                        | DATE<br>05.08.2001              |                    |                                                                                                     |  |  |  |
|                                                                                                                             |             |                                                      | 1 PLACE                                                 | ± 0.25 | ± ---                                                                                                                         |                            |                        |                                 |                    |                                                                                                     |  |  |  |
|                                                                                                                             |             |                                                      | ANGULAR ± 1 °                                           |        |                                                                                                                               |                            |                        |                                 |                    |                                                                                                     |  |  |  |
|                                                                                                                             |             |                                                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                        |                                 |                    |                                                                                                     |  |  |  |
| REV                                                                                                                         |             |                                                      |                                                         |        |                                                                                                                               |                            |                        |                                 |                    |                                                                                                     |  |  |  |

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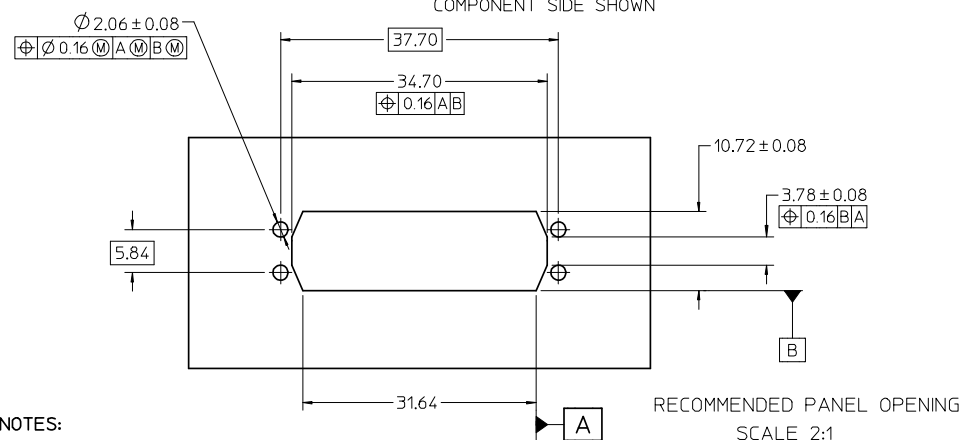
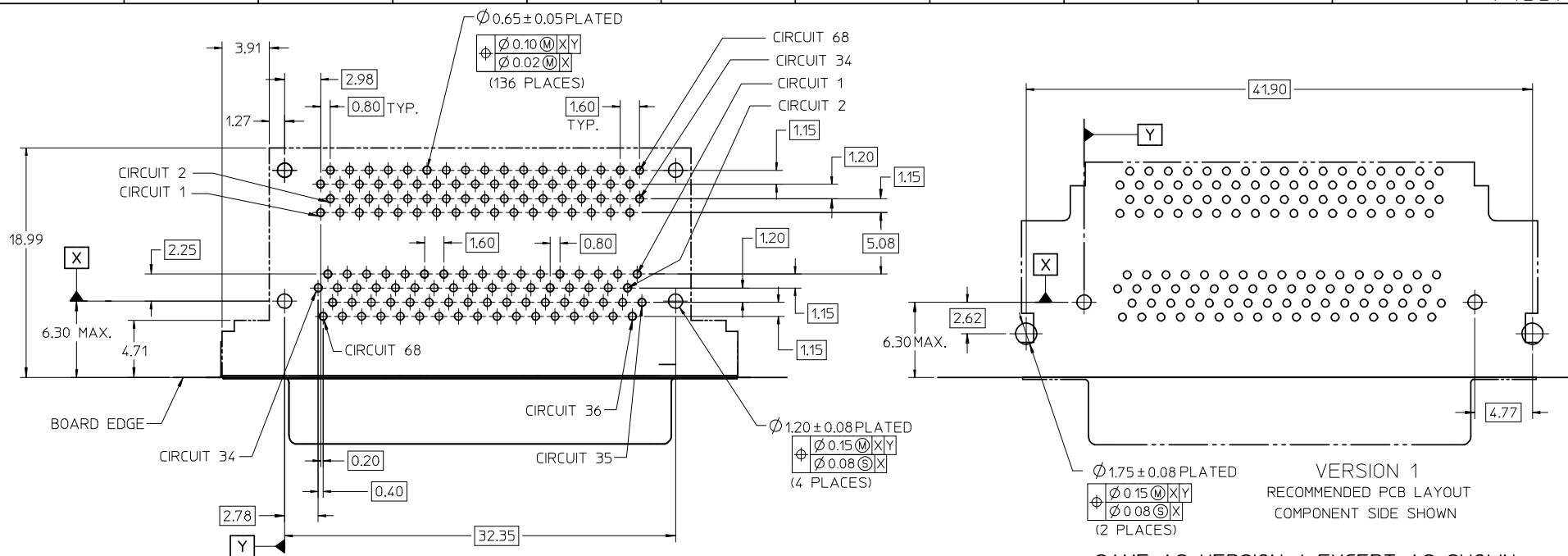
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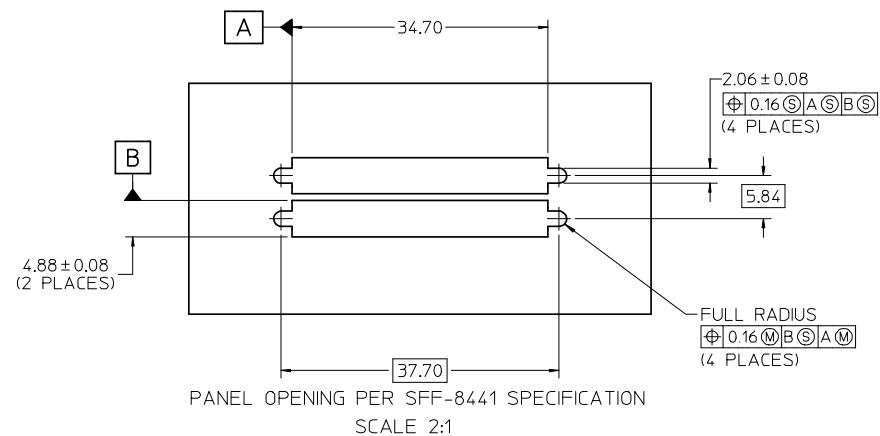
## NOTES:

1. FOR FULL MATE WITH PLUG, PANEL THICKNESS SHOULD NOT EXCEED 1.0mm.

FUNCTIONAL MATING WITH MOLEX PLUG CAN STILL BE MAINTAINED WITH PANELS AS THICK AS 2.5mm (BUT PLUG AND RECEPTACLE WILL NOT BE FULLY MATED).

2. GUIDELINES FOR CHOOSING A MOLEX SCREWLOCK:

| PANEL THICKNESS               | RECOMMENDED SCREWLOCK |
|-------------------------------|-----------------------|
| LESS THAN OR EQUAL TO 1.00 MM | 71433-0002            |
| 1.01 TO 2.15 MM               | 71433-0010            |



|                                                                                                                            |             |                                                       |                                       |        |              |                            |                        |                                 |  |                    |                    |
|----------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------|---------------------------------------|--------|--------------|----------------------------|------------------------|---------------------------------|--|--------------------|--------------------|
| CLARIFY DIMENSIONS<br>EC NO: UCP2008-1553<br>DRWN:BBARKER 2008/02/01<br>CHKD:DMORGAN 2008/02/07<br>APPR:SMILLER 2008/02/08 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽ - 0</div> <div>▽C - 0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | SCALE<br>3:1 | DESIGN UNITS<br>METRIC     | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY              |  |                    |                    |
|                                                                                                                            |             |                                                       |                                       | mm     | INCH         | DIMENSION STYLE<br>MM ONLY |                        | TITLE<br>VHDCI STACKED ASSEMBLY |  |                    |                    |
|                                                                                                                            |             |                                                       | 4 PLACES                              | ± ---  | ± ---        | DRAWN BY<br>SSAMPSON       |                        |                                 |  |                    | DATE<br>05.08.2001 |
|                                                                                                                            |             |                                                       | 3 PLACES                              | ± ---  | ± ---        | CHECKED BY<br>MBANAKIS     |                        | DATE<br>05.08.2001              |  | MOLEX INCORPORATED |                    |
|                                                                                                                            |             |                                                       | 2 PLACES                              | ± 0.13 | ± ---        | APPROVED BY<br>MBANAKIS    |                        | DATE<br>05.08.2001              |  |                    |                    |
|                                                                                                                            |             |                                                       | 1 PLACE                               |        | ± 0.25       | ± ---                      |                        |                                 |  |                    |                    |
|                                                                                                                            |             |                                                       | ANGULAR                               |        | ± 1 °        |                            |                        |                                 |  |                    |                    |
|                                                                                                                            |             |                                                       | DRAFT WHERE APPLICABLE                |        |              |                            |                        |                                 |  |                    |                    |
|                                                                                                                            |             |                                                       | MUST REMAIN WITHIN DIMENSIONS         |        |              |                            |                        |                                 |  |                    |                    |
|                                                                                                                            |             |                                                       |                                       |        |              |                            |                        |                                 |  |                    |                    |

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## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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