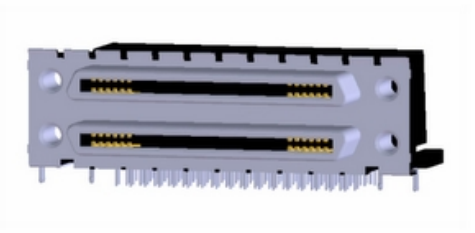
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# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0743370072
**Status:** Active
**Description:** 0.80mm (.031") Pitch Ultra+™ VHDCI Wire-to-Board Receptacle, Stacked, Right Angle, with Enhanced Shield, Version 1 Footprint, 136 Circuits



*Series image - Reference only*

**Documents:**

3D Model
Test Summary (PDF)
Drawing (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) | 0.143 In |
| PC Tail Length (mm) | 3.62 mm |
| PCB Locator | Yes |
| PCB Retention | Yes |
| PCB Thickness Recommended (in) | 0.093 In |
| PCB Thickness Recommended (mm) | 2.36 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 |

**EU RoHS**
**RoHS Compliant by Exemption**
**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**
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 |

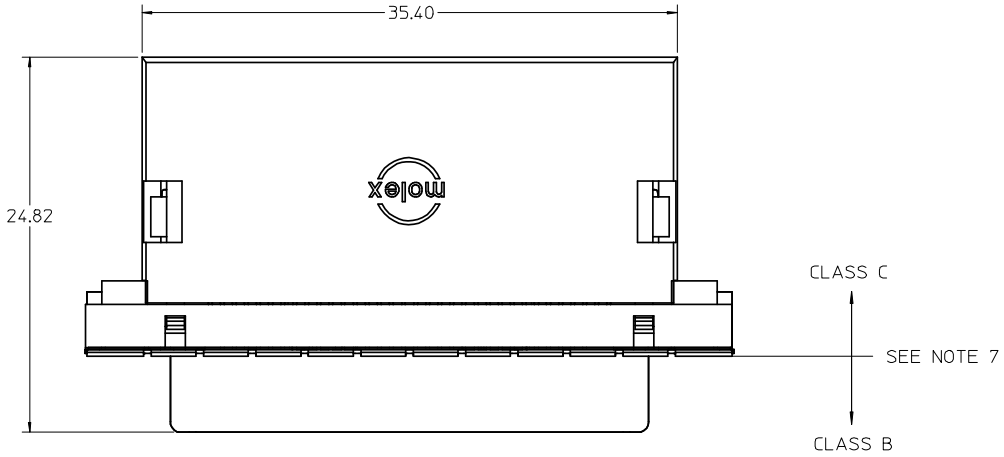
## Solder Process Data

| | |
|---|---|
| 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

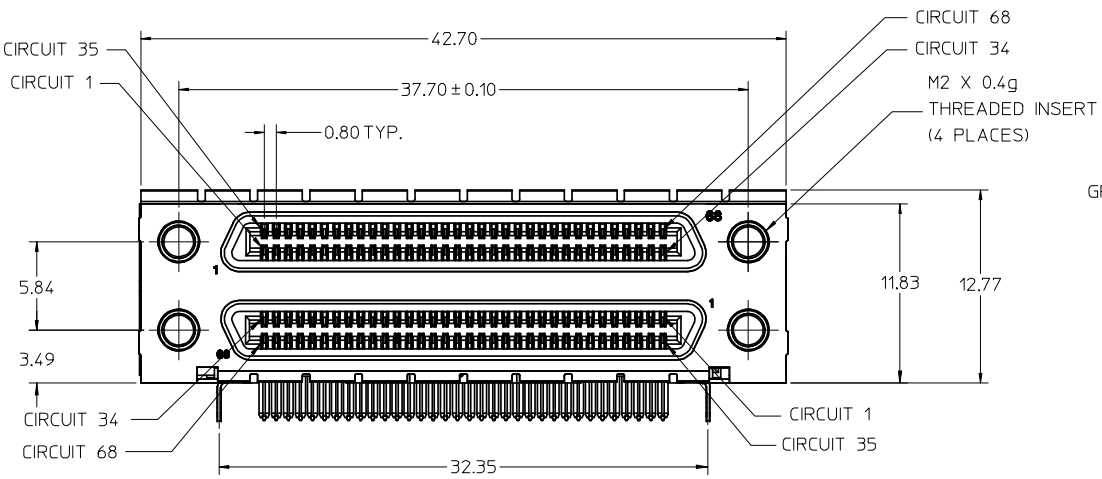
## Reference - Drawing Numbers

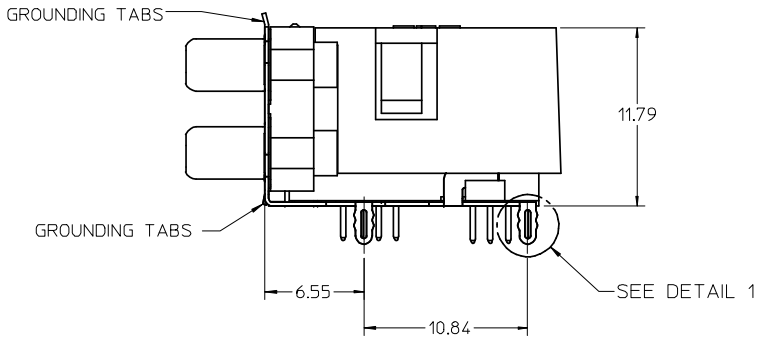
| | |
|---|---|
| Packaging Specification | PK-74337-001 |
| Product Specification | PS-71425-9999 |
| Sales Drawing | SD-74337-014 |

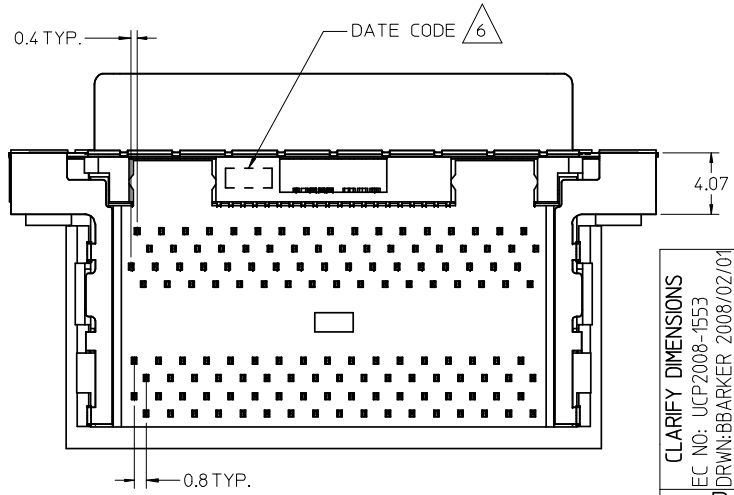



NOTES:

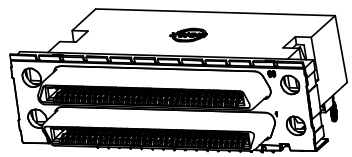
1. MATERIALS:
   HOUSING, COVER, AND TAIL ALIGNER: HIGH TEMPERATURE THERMOPLASTIC, UL94, V-0 RATED, COLOR: BLACK
   TERMINAL: PHOSPHOR BRONZE ALLOY
   BRACKET: BRASS
   SHELL: STEEL
   INSERT: BRASS
2. FINISHES:
   TERMINAL: 0.05-0.25 MICROMETERS GOLD FLASH IN CRITICAL AREA OVER 0.75 MICROMETERS MINIMUM 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.




PRESS FIT FORKLOCK SHOWN
(VERSION 4)



## WITH COVER OPTION

CLARIFY DIMENSIONS
EC NO: UCP2008-1553
DRWN:BBARKER 2008/02/01
CH'KD:DMORGAN 2008/02/07
APPR: SMILLER 2008/02/08
DESCRIPTION
REV
R

QUALITY SYMBOLS
▼ = 0
▽C = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

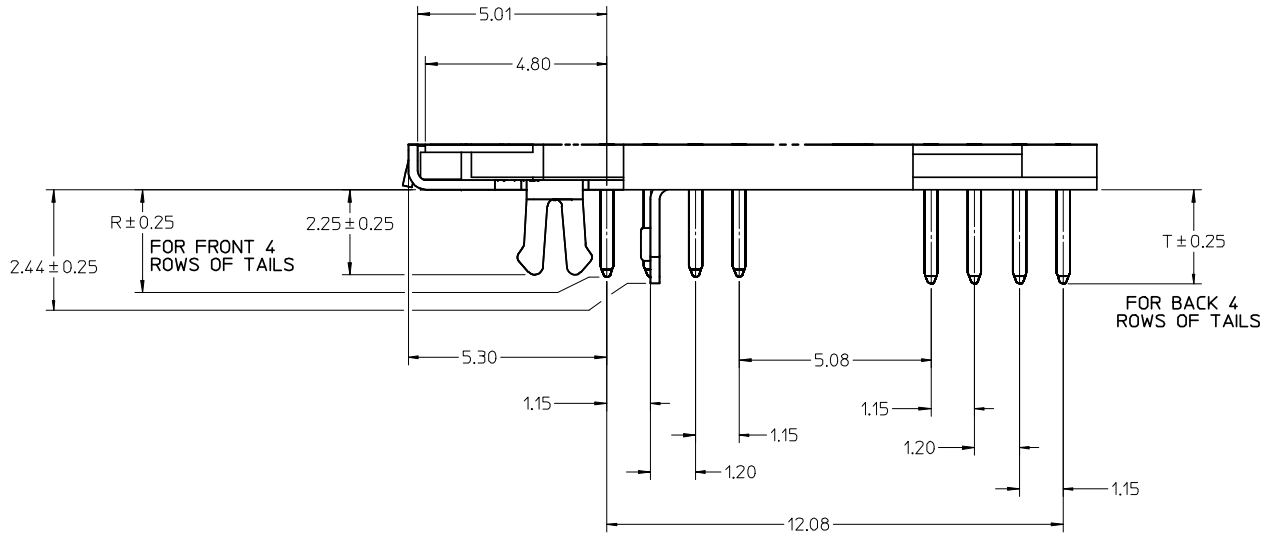
| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 1 ° | | |

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

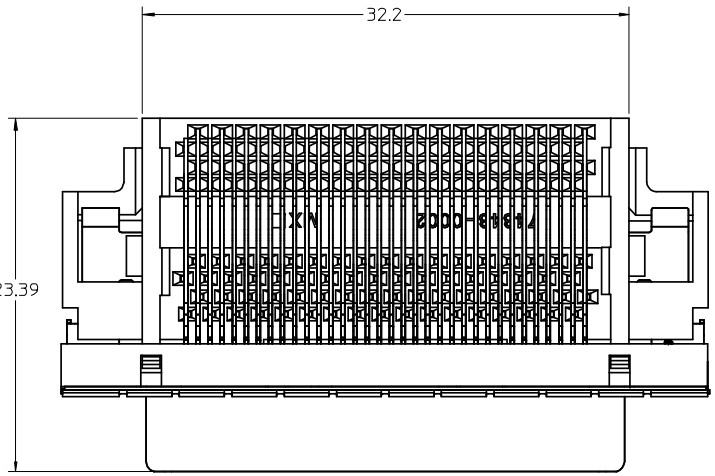
| | |
|---|---|
| SCALE | 3:1 |
| DESIGN UNITS | METRIC |
| THIRD ANGLE PROJECTION | REVISE ON CAD ONLY |
| DIMENSION STYLE | MM ONLY |
| TITLE | VHDCI STACKED ASSEMBLY |
| DRAWN BY / DATE | SSAMPSON 05.08.2001 |
| CHECKED BY / DATE | MBANAKIS 05.08.2001 |
| APPROVED BY / DATE | MBANAKIS 05.08.2001 |
| MOLEX INCORPORATED | |
| MATERIAL NO. | SEE TABLE |
| DOCUMENT NO. | SD-74337-014 |
| SHEET NO. | 1 OF 4 |

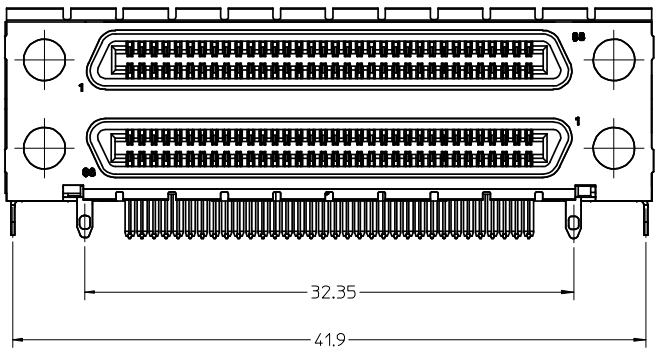
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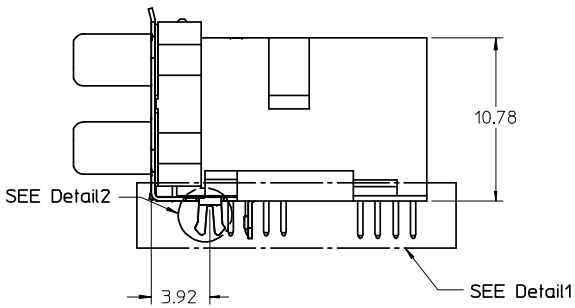
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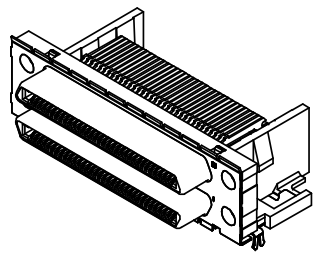



Detail1
SCALE 10:1



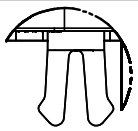
## WITHOUT COVER OPTION

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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 | QUALITY SYMBOLS<br>▼ = 0<br>⟂ = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm / INCH<br>4 PLACES ± --- / ± ---<br>3 PLACES ± --- / ± ---<br>2 PLACES ± 0.13 / ± ---<br>1 PLACE ± 0.25 / ± ---<br>ANGULAR ± 1 °<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS | SCALE 4:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY |
| | | | DIMENSION STYLE MM ONLY | | TITLE: VHDCI STACKED ASSEMBLY | |
| | | | DRAWN BY SSAMPSON | DATE 05.08.2001 | | |
| | | | CHECKED BY MBANAKIS | DATE 05.08.2001 | molex MOLEX INCORPORATED | |
| | | | APPROVED BY MBANAKIS | DATE 05.08.2001 | MATERIAL NO. SEE TABLE | DOCUMENT NO. SD-74337-014 |
| DESCRIPTION | REV | | | | | SHEET NO. 2 OF 4 |

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# VERSION 1 PART NUMBERS

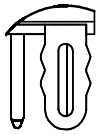


DETAIL 2
(BACKGROUND OMITTED FOR CLARITY)

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 |

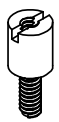
# VERSION 4 PART NUMBERS



DETAIL 1
(BACKGROUND OMITTED FOR CLARITY)

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
EC NO: UCP2008-1553
DRWN:BBARKER 2008/02/01
CH'KD:DMORGAN 2008/02/07
APPR: SMILLER 2008/02/08
DESCRIPTION
R
REV

QUALITY SYMBOLS
▼ - 0
Ⓒ - 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 1 ° | | |

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

| SCALE | DESIGN UNITS |
|---|---|
| 3:1 | METRIC |

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

DIMENSION STYLE: MM ONLY

TITLE: VHDCI STACKED ASSEMBLY

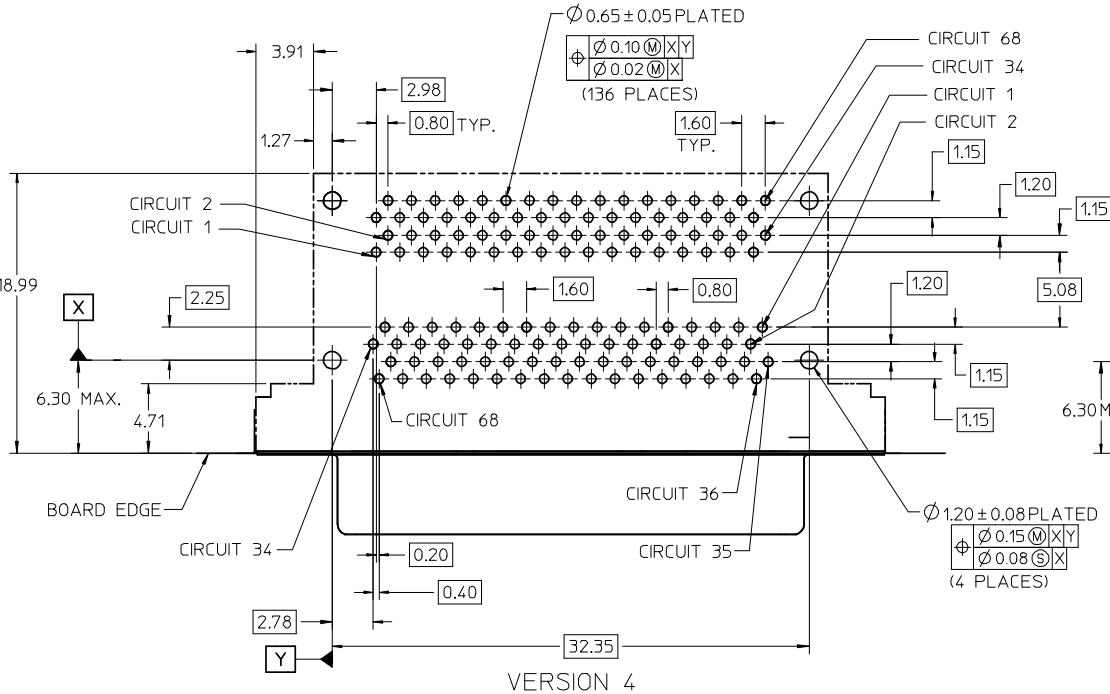
| DRAWN BY | DATE |
|---|---|
| SSAMPSON | 05.08.2001 |
| CHECKED BY | DATE |
| MBANAKIS | 05.08.2001 |
| APPROVED BY | DATE |
| MBANAKIS | 05.08.2001 |

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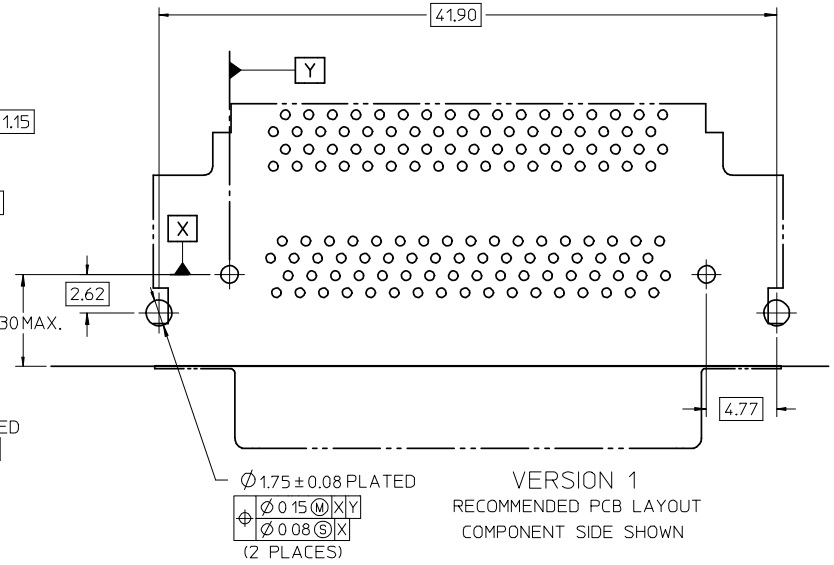
| MATERIAL NO. | DOCUMENT NO. | SHEET NO. |
|---|---|---|
| SEE TABLE | SD-74337-014 | 3 OF 4 |

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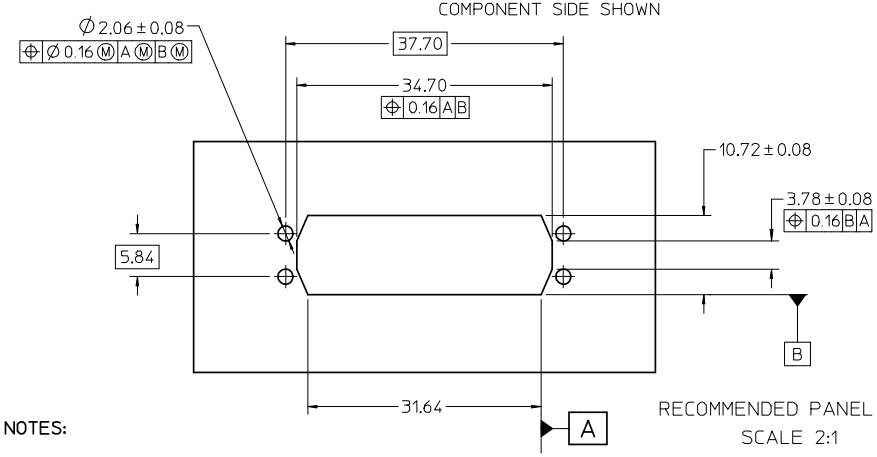



VERSION 4
RECOMMENDED PCB LAYOUT
COMPONENT SIDE SHOWN

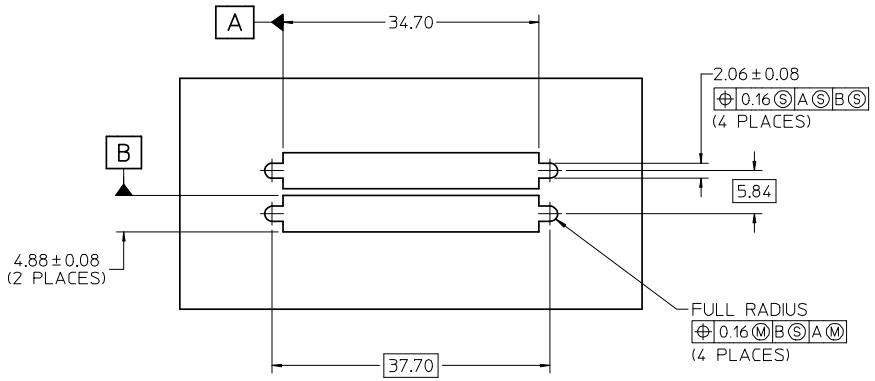



VERSION 1
RECOMMENDED PCB LAYOUT
COMPONENT SIDE SHOWN

SAME AS VERSION 4 EXCEPT AS SHOWN




RECOMMENDED PANEL OPENING
SCALE 2:1




PANEL OPENING PER SFF-8441 SPECIFICATION
SCALE 2:1

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
EC NO: UCP2008-1553
DRWN:BBARKER 2008/02/01
CH'KD:DMORGAN 2008/02/07
APPR:SMILLER 2008/02/08
DESCRIPTION
REV
R

QUALITY SYMBOLS
▼ = 0
▽ = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 1 ° | | |

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

| | |
|---|---|
| SCALE | 3:1 |
| DESIGN UNITS | METRIC |
| | THIRD ANGLE PROJECTION |
| | REVISE ON CAD ONLY |
| DIMENSION STYLE | MM ONLY |
| TITLE | VHDCI STACKED ASSEMBLY |
| DRAWN BY / DATE | SSAMPSON 05.08.2001 |
| CHECKED BY / DATE | MBANAKIS 05.08.2001 |
| | MOLEX INCORPORATED |
| APPROVED BY / DATE | MBANAKIS 05.08.2001 |
| MATERIAL NO. | SEE TABLE |
| DOCUMENT NO. | SD-74337-014 |
| SHEET NO. | 4 OF 4 |

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