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Part Number: [0743370070](#)
Status: **Active**
Description: 0.80mm (.031") Pitch Ultra+™ VHDCI Wire-to-Board Receptacle, Stacked, Right Angle, with Enhanced Shield, Version 1 Footprint, 136 Circuits

Documents:

- | | |
|------------------------------------|---|
| 3D Model | Product Specification PS-71425-9999 (PDF) |
| Test Summary (PDF) | RoHS Certificate of Compliance (PDF) |
| Drawing (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

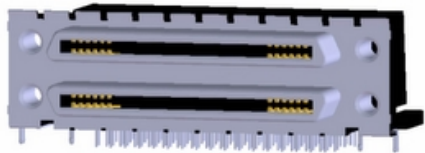


image - Reference only **Series**

EU RoHS RoHS Compliant by Exemption REACH SVHC Not Reviewed Halogen-Free Status Not Reviewed	China RoHS Pb
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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

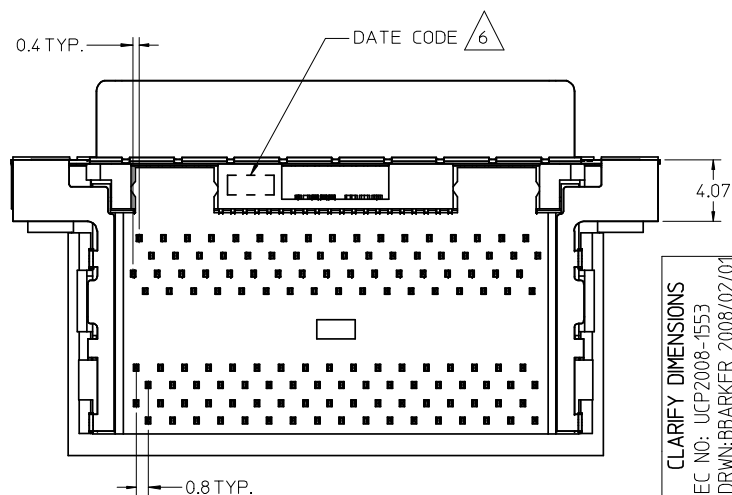
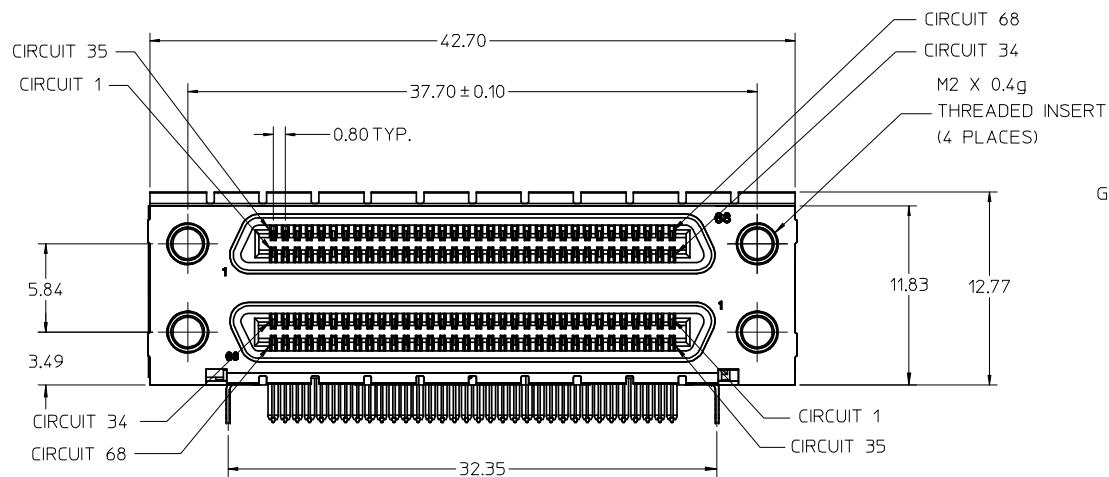
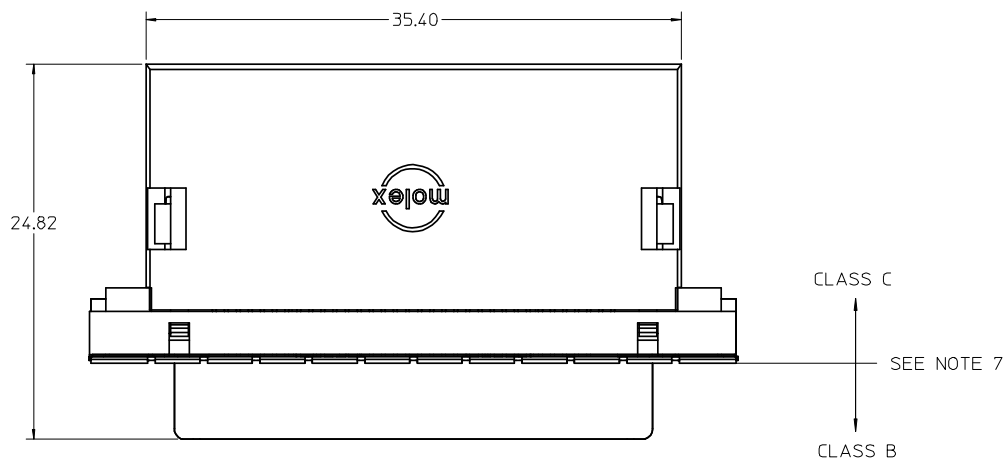
Material Info

Reference - Drawing Numbers

Product Specification	PS-71425-9999
Sales Drawing	SD-74337-014

This document was generated on 04/08/2010

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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.

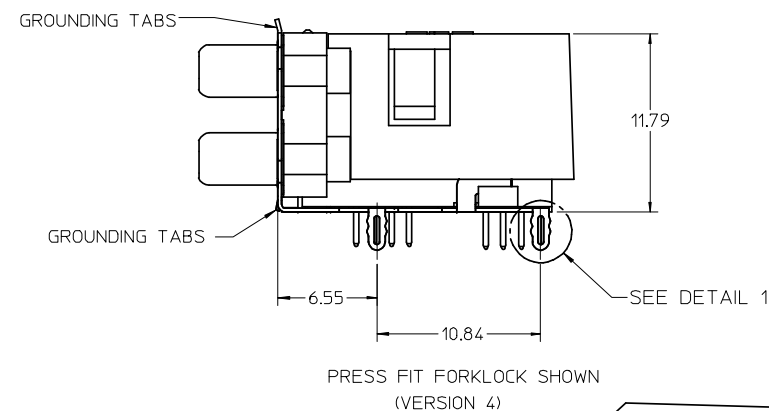
4. PACKAGING SPECIFICATION: TRAY PACK PER PK-74337-001.

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

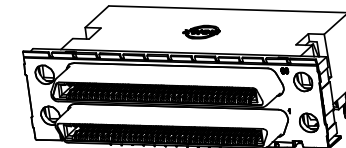
6. DATE CODE: YR/WK PER EIA-476-A.

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.

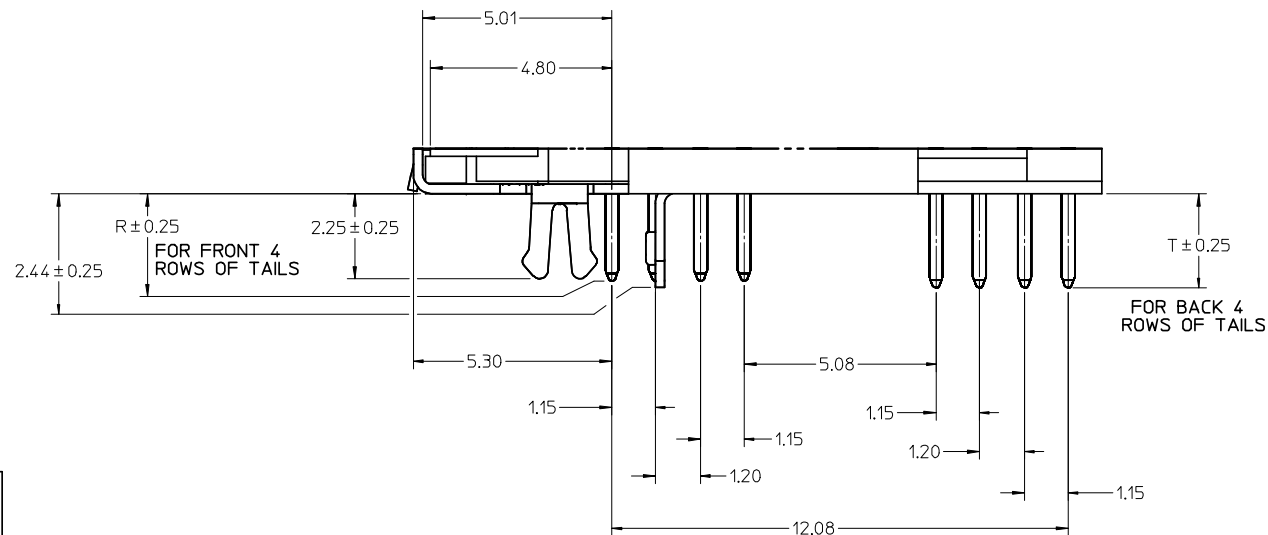
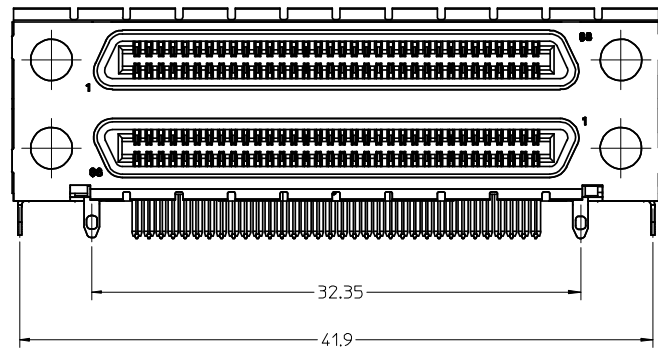
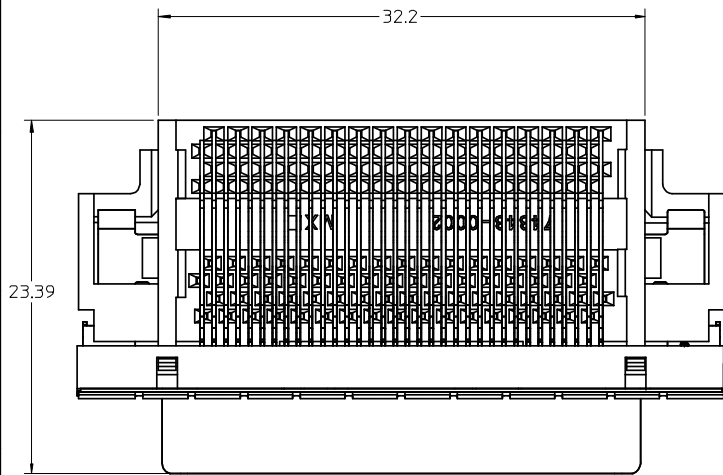


WITH COVER OPTION

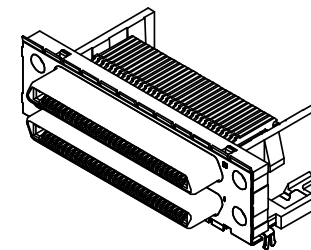
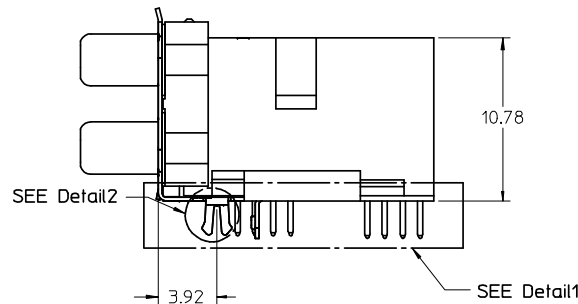


CLARIFY DIMENSIONS EC NO: UCP2008-1553 DRWN:BBARKER 2008/02/01 CHKD:DMORGAN 2008/02/07 APPR:SMILLER 2008/02/08	DESCRIPTION	QUALITY SYMBOLS ▽ = 0 ▽C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 3:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY				
				mm	INCH	DIMENSION STYLE MM ONLY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

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



Detail1
SCALE 10:1

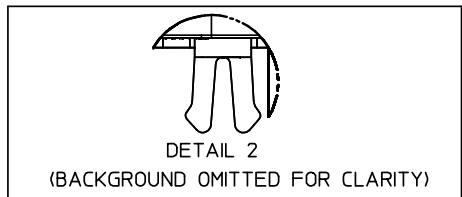


WITHOUT COVER OPTION

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

11 10 9 8 7 6 5 4 3 2 1

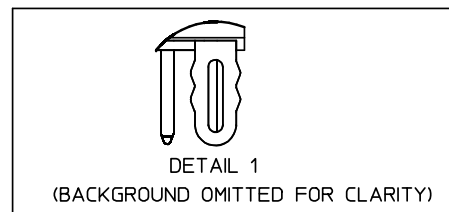
VERSION 1 PART NUMBERS



BOARD RETENTION: SNAP FIT

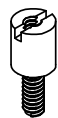
PCB THICKNESS	COVER	R DIM.	T DIM.	INCLUDES LOOSE PACKED SCREWLOCKS 71433-0002 SEE DRAWING SD-71433-005	GROUNDING TABS	PART NUMBER
1.60±0.16	YES	2.30	2.48	NO	YES	74337-0011
1.60±0.16	YES	2.08		NO	YES	74337-0012
1.60±0.16	NO	2.30	2.48	NO	YES	74337-0015
1.60±0.16	NO	2.08		NO	YES	74337-0016
1.60±0.16	YES	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



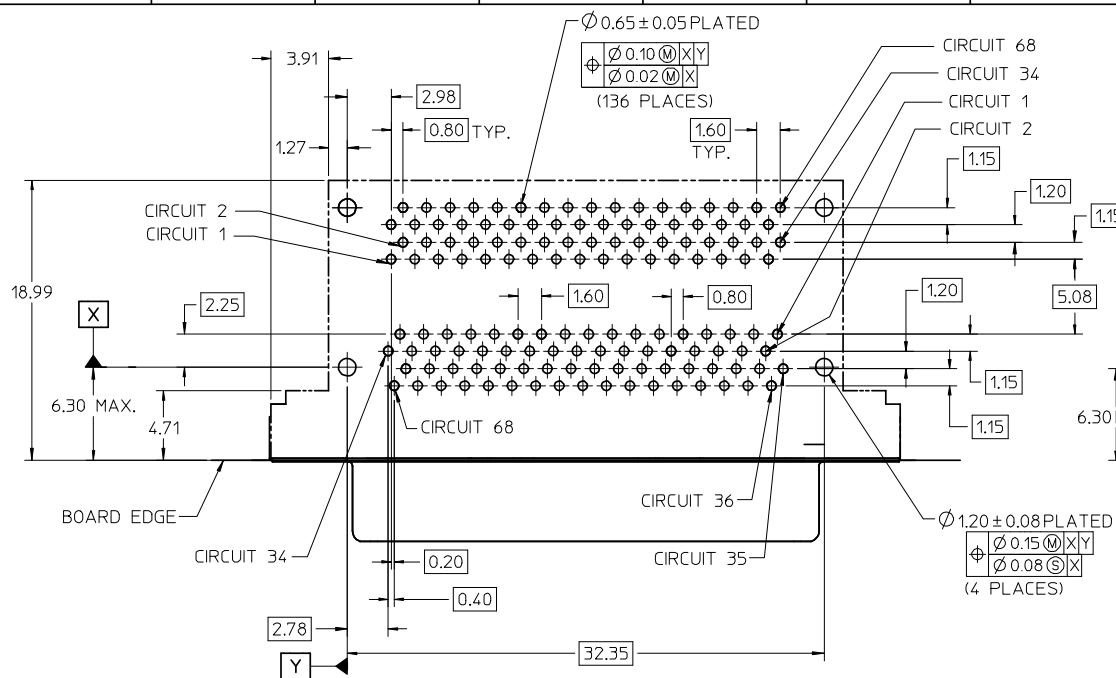
BOARD RETENTION: PRESS FIT

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

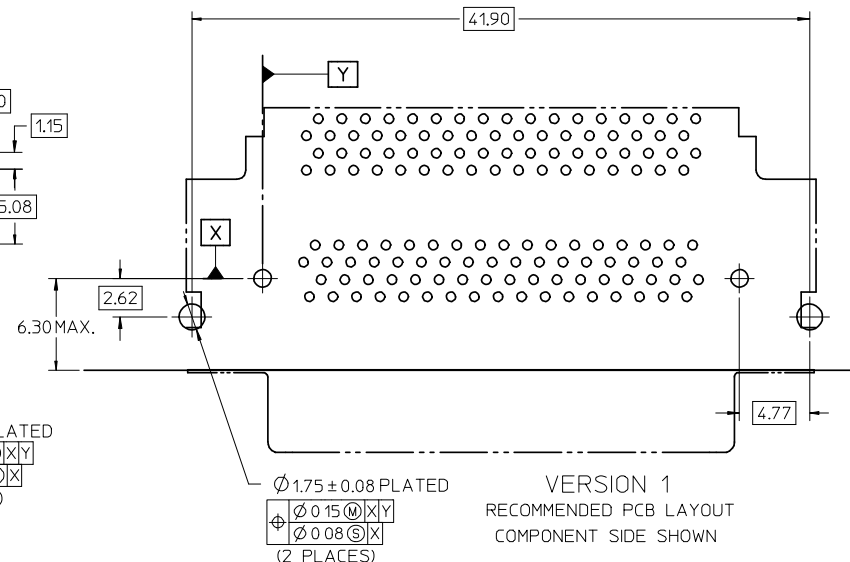


OPTIONAL SCREWLOCK
71433-0002

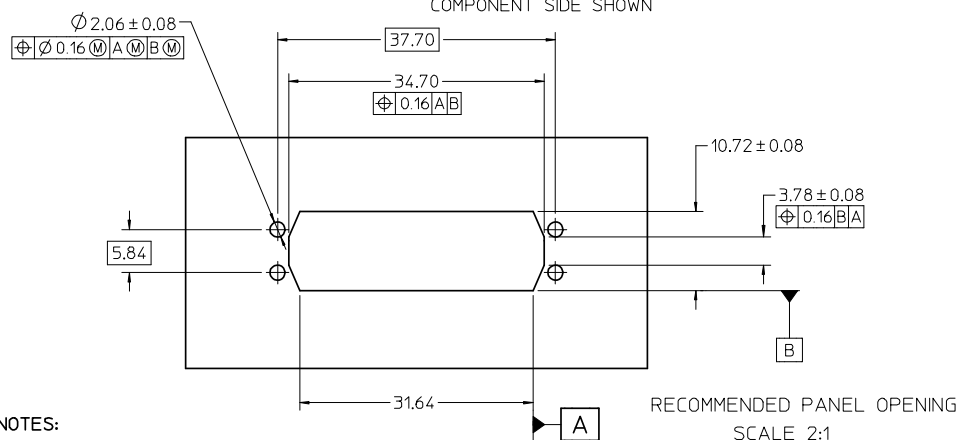
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				mm	INCH	DIMENSION STYLE MM ONLY		TITLE VHDCI STACKED ASSEMBLY					
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			3 PLACES	± ---	± ---	CHECKED BY MBANAKIS		DATE 05.08.2001		MOLEX MOLEX INCORPORATED			
			2 PLACES	± 0.13	± ---	APPROVED BY MBANAKIS		DATE 05.08.2001		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-74337-014	SHEET NO. 3 OF 4
			1 PLACE	± 0.25	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			ANGULAR ± 1 °										



VERSION 4
RECOMMENDED PCB LAYOUT
COMPONENT SIDE SHOWN



SAME AS VERSION 4 EXCEPT AS SHOWN



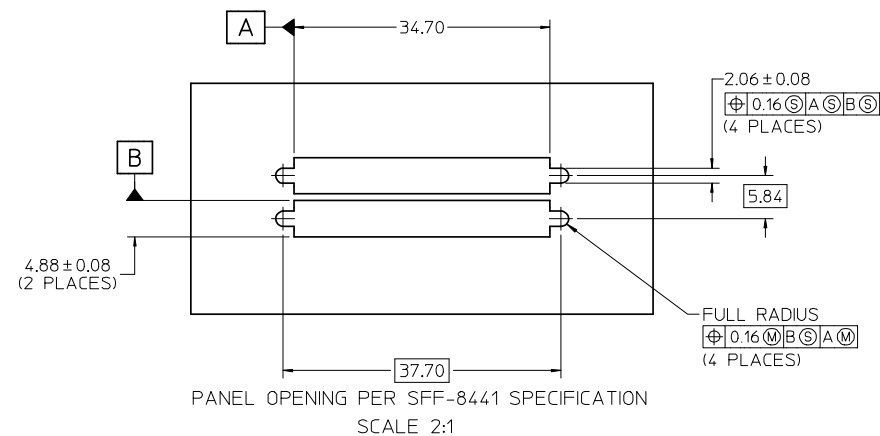
NOTES:

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



PANEL OPENING PER SFF-8441 SPECIFICATION
SCALE 2:1

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