

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0717423003](#)
Status: **Active**
Description: 1.00mm (.039") Pitch Mezzanine Receptacle, Surface Mount, Dual Row, Vertical Stacking, 84 Circuits

Documents:

[3D Model](#) [Product Specification PS-71741-9999 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Receptacles
 Series [71742](#)
 Application Board-to-Board
 Product Name Mezzanine

Physical

Circuits (Loaded) 84
 Color - Resin Natural
 Flammability 94V-0
 Glow-Wire Compliant No
 Lock to Mating Part Yes
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 Number of Rows 2
 Orientation Vertical
 PCB Locator Yes
 PCB Retention None
 PCB Thickness Recommended (in) 0.040 In
 PCB Thickness Recommended (mm) 1.00 mm
 Packaging Type Embossed Tape on Reel
 Pitch - Mating Interface (in) 0.039 In
 Pitch - Mating Interface (mm) 1.00 mm
 Plating min: Mating (µin) 10
 Plating min: Mating (µm) 0.25
 Plating min: Termination (µin) 40.8
 Plating min: Termination (µm) 1.02
 Polarized to PCB No
 Robotic Placement Pick and Place Cap
 Surface Mount Compatible (SMC) N/A
 Temperature Range - Operating -55°C to +85°C
 Termination Interface: Style Surface Mount

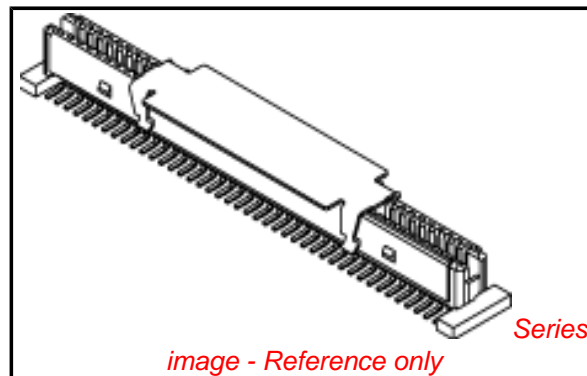
Electrical

Current - Maximum per Contact 1A
 Voltage - Maximum 100V

Solder Process Data

Lead-free Process Capability Reflow Capable (SMT only)
 Process Temperature max. C 260

Material Info



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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.

China RoHS



Search Parts in this Series

[71742Series](#)

Mates With

[717410](#) for Stack Height 15mm, [717412](#) for Stack Height 13mm

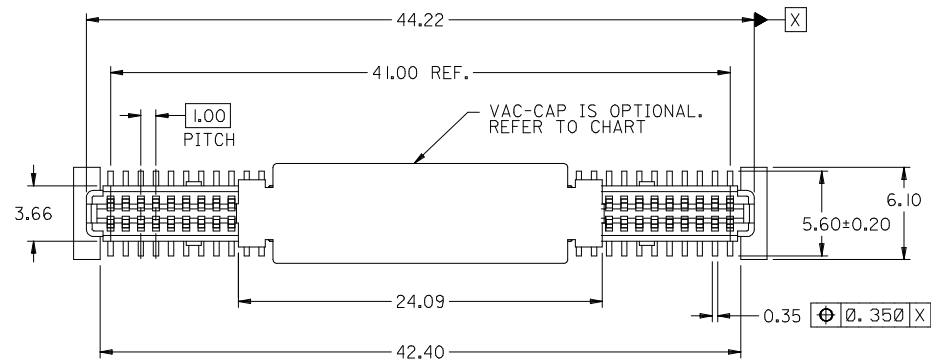
Reference - Drawing Numbers

Product Specification
Sales Drawing

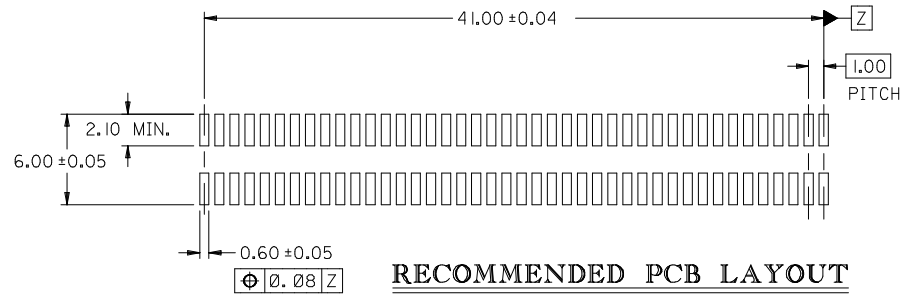
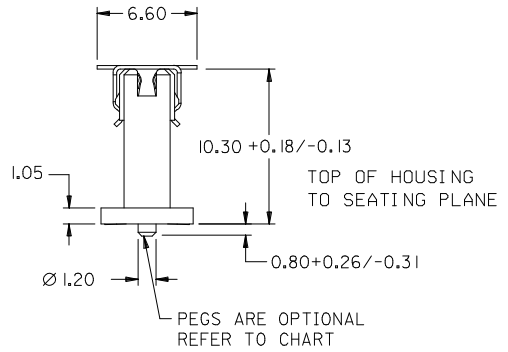
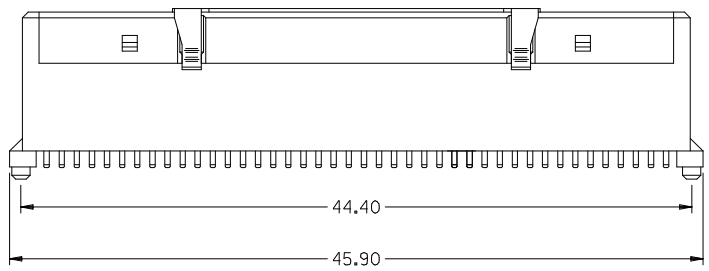
PS-71741-9999
SDA-71742-3***

This document was generated on 04/08/2010

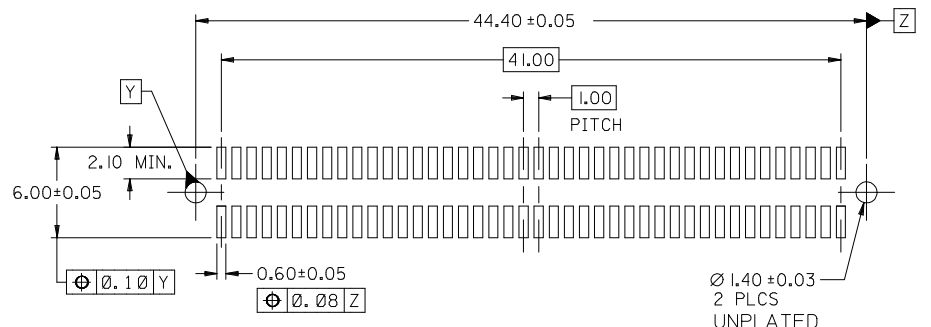
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71742-3004	0.76 (30 MICROINCH)	YES	YES	PK-70873-063	TAPE & REEL
71742-3003	0.25 (10 MICROINCH)	YES	YES	PK-70873-063	TAPE & REEL
71742-3001	0.25 (10 MICROINCH)	NO	YES	PK-70873-063	TAPE & REEL
ITEM NUMBER	CONTACT AREA PLATING MINIMUM GOLD THICKNESS IN MICROMETERS (SEE NOTES FOR OTHER PLATINGS)	PEGS	PICK & PLACE CAP	PACKAGING SPEC. NUMBER	PACKAGING TYPE



RECOMMENDED PCB LAYOUT
RECOMMENDED PCB THICKNESS: 1.0±0.1mm MIN.



RECOMMENDED PCB LAYOUT WITH PEGS
RECOMMENDED PCB THICKNESS: 1.0±0.1mm MIN.

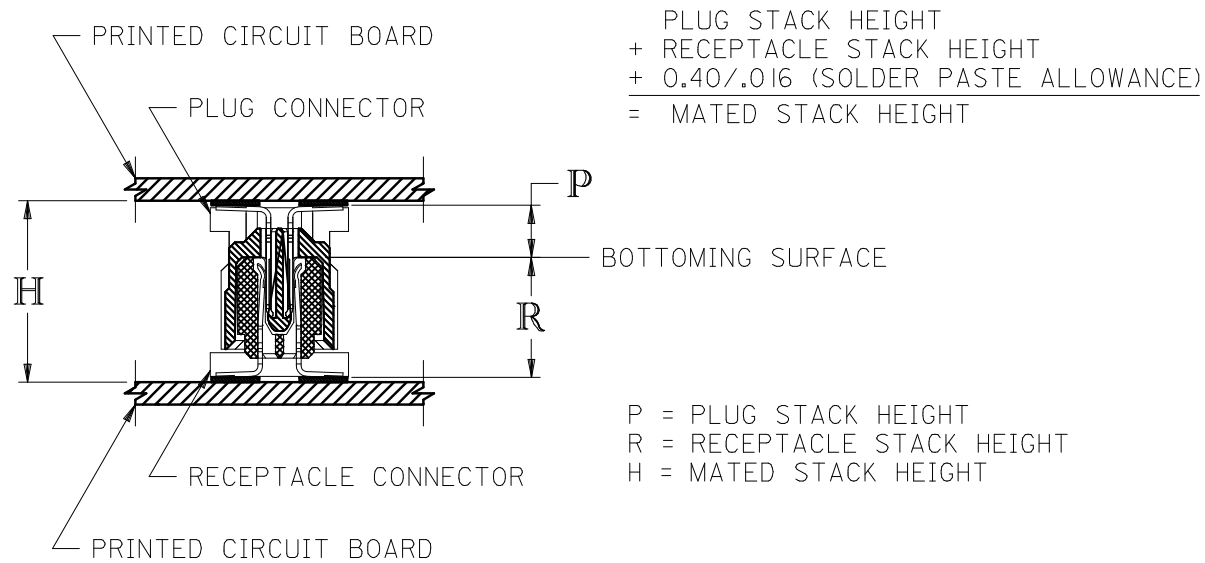
NOTES:

- HOUSING MATERIAL: GLASS FILLED LIQUID CRYSTAL POLYMER (LCP);
UL RATING: 94V-0; COLOR: WHITE (NATURAL).
TERMINAL MATERIAL: PHOSPHOR BRONZE.
VACUUM CAP MATERIAL: STAINLESS STEEL.
- CONTACT FINISH:
SEE TABLE FOR THICKNESS OF GOLD PLATING IN CONTACT AREA.
1.90 MICROMETER MINIMUM TIN PLATING IN SOLDER TAIL AREA.
OVER NICKEL PLATING OVERALL.
- THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-71741-9999.
- DIMENSIONS ARE IN MILLIMETERS.
- PACKAGING SPECIFICATIONS: REFER TO CHART.

CLARIFY DIMENSIONS EC NO: UCP2009-2408 DRWN:BBARKER 2009/04/20 CHKD:DMORGAN 2009/04/20 APPR:SMILLER 2009/04/21	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>3 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>2 PLACES</td> <td>±0.13</td> <td>±---</td> </tr> <tr> <td>1 PLACE</td> <td>±0.25</td> <td>±---</td> </tr> </table>		mm	INCH	4 PLACES	±---	±---	3 PLACES	±---	±---	2 PLACES	±0.13	±---	1 PLACE	±0.25	±---	DIMENSION STYLE MM ONLY	SCALE METRIC	DESIGN UNITS THIRD ANGLE PROJECTION
		mm	INCH																	
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1 PLACE	±0.25	±---																		
DRAWN BY WGM	DATE 97/08/04	TITLE SALES ASSY, 1.0MM 84 CKT BOARD-TO-BOARD RECPTACLE 10.3 STACK HEIGHT																		
CHECKED BY	DATE	APPROVED BY DJB																		
MATERIAL NO. SEE TABLE	DATE 97/08/04	DOCUMENT NO. SDA-71742-3***																		
SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			

RECOMMENDED PLUG/RECEPTACLE COMBINATION FOR
MATED STACK HEIGHT PER EIA STANDARD 700 AAAB

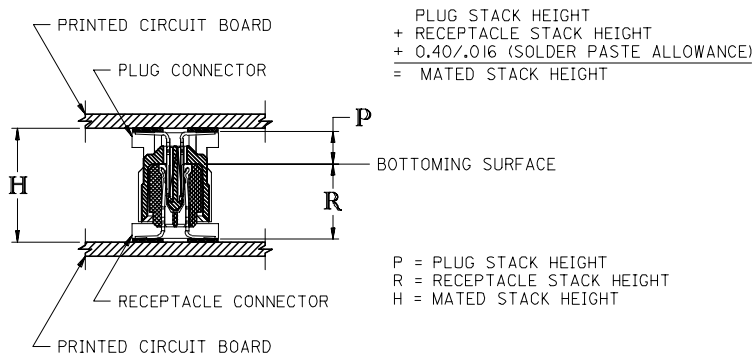
MATED STACK HEIGHT	RECEPTACLE HEIGHT	RECEPTACLE SERIES NO.	PLUG HEIGHT	PLUG SERIES NO.
15.00/.591	10.30/.406	71742-3***	4.30/.169	71741-0***
13.00/.512	10.30/.406	71742-3***	2.30/..091	71741-2***



SEE SHEET 1 EC NO: UCP2009-2408 DRWN:BBARKER 2009/04/20 CHKD:JMORGAN 2009/04/20 APPR:SMILLER 2009/04/21	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± .---</td> <td>± .---</td> </tr> <tr> <td>3 PLACES</td> <td>± .---</td> <td>± .---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.13</td> <td>± .---</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± .---</td> </tr> </tbody> </table> ANGULAR ±1/2°		mm	INCH	4 PLACES	± .---	± .---	3 PLACES	± .---	± .---	2 PLACES	± 0.13	± .---	1 PLACE	± 0.25	± .---	DIMENSION STYLE MM ONLY DRAWN BY DATE WGM 97/08/04 CHECKED BY DATE	SCALE DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE SALES ASSY, 1.0MM 84 CKT BOARD-TO-BOARD RECP TACLE 10.3 STACK HEIGHT
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY DATE DJB 97/08/04	MATERIAL NO. SEE TABLE	MOLEX MOLEX INCORPORATED	DOCUMENT NO. SDA-71742-3***	SHEET NO. 1 OF 2															
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*RECOMMENDED PLUG/RECEPTACLE COMBINATION FOR
MATED STACK HEIGHT PER EIA STANDARD 700 AAAB

MATED STACK HEIGHT	RECEPTACLE HEIGHT	RECEPTACLE SERIES NO.	PLUG HEIGHT	PLUG SERIES NO.
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13.00/.512	10.30/.406	71742-3***	2.30/..091	71741-2***



CHG TO NEW BORDER EC NO: UCP2007-1510 G DRAWN: BARKER 2007/01/04 CHKD: MIBARRA 2007/01/04 APPR: SMILLER 2007/01/05 REVISION DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$\nabla=0$ $\nabla=0$	mm INCH	MM/IN	---	METRIC		
		4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE			
		3 PLACES ± --- ± ---	CHECKED BY DATE	SALES ASSEMBLY, 1.0 MM 84 CKT., BTB RECEPTACLE 10.30/.406 STACK HEIGHT			
	2 PLACES ± --- ± ---	KAS 98/12/28	MOLEX INCORPORATED				
	1 PLACE ± --- ± ---	APPROVED BY DATE	DOCUMENT NO.				
	ANGULAR ±1/2°	DJB 98/12/28	SDA-71742-3***				
		MATERIAL NO.	SHEET NO.				
			2 OF 2				
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				