

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

**Part Number:** [0717423001](#)  
**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**

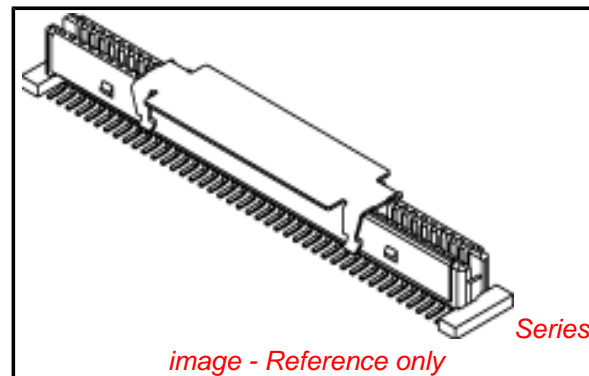
Circuits (Loaded) 84  
 Color - Resin Natural  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Lock to Mating Part Yes  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Number of Rows 2  
 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**

Duration at Max. Process Temperature (seconds) 40  
 Lead-free Process Capability Reflow Capable (SMT only)  
 Max. Cycles at Max. Process Temperature 3  
 Process Temperature max. C 260



**EU RoHS**

**ELV and RoHS  
 Compliant**

**REACH SVHC**

**Contains SVHC: No**

**Halogen-Free**

**Status**

**Not Reviewed**

**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.

**China RoHS**



**Search Parts in this Series**

[71742Series](#)

**Mates With**

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

**Material Info**

**Reference - Drawing Numbers**

Product Specification

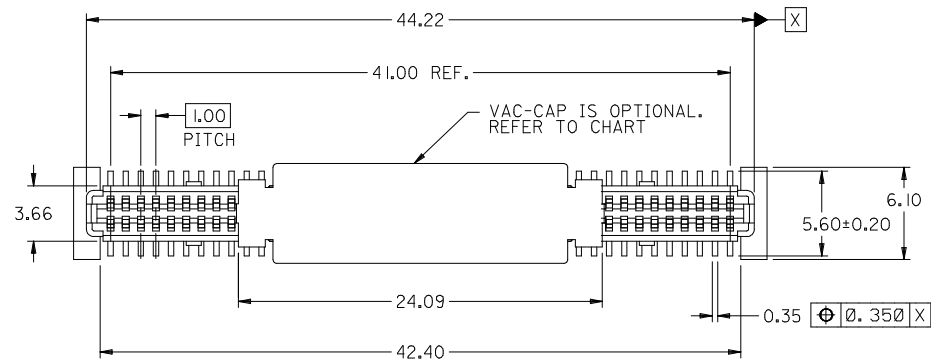
Sales Drawing

PS-71741-9999

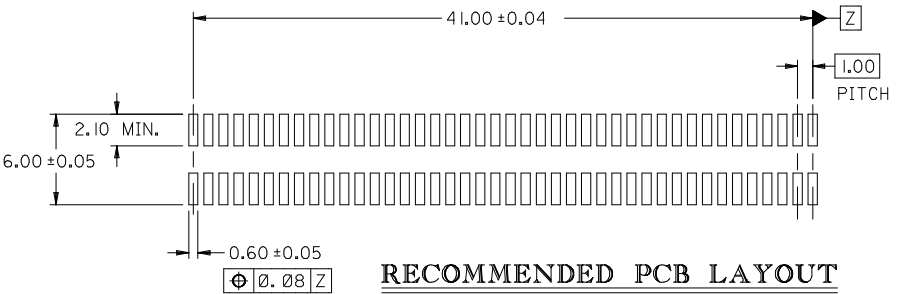
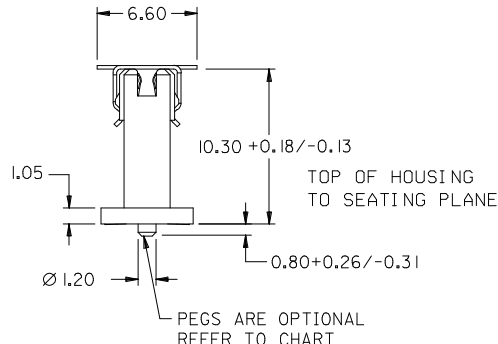
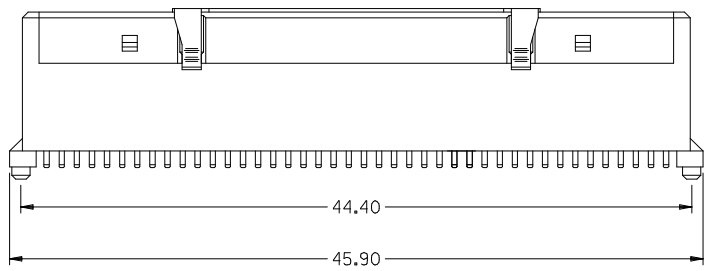
SDA-71742-3\*\*\*

This document was generated on 04/08/2010

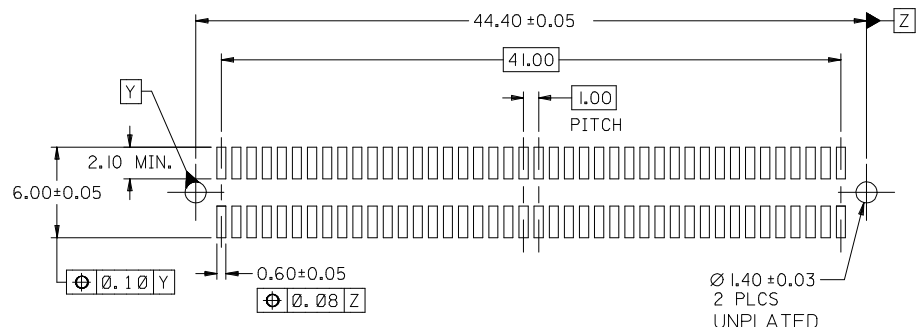
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71742-3004	0.76 (30 MICROINCH)	YES	YES	PK-70873-063	TAPE & REEL
71742-3003	0.25 (10 MICROINCH)	YES	YES	PK-70873-063	TAPE & REEL
71742-3001	0.25 (10 MICROINCH)	NO	YES	PK-70873-063	TAPE & REEL
ITEM NUMBER	CONTACT AREA PLATING MINIMUM GOLD THICKNESS IN 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 DRAWN: BARKER 2009/04/20 CHKD: MORGAN 2009/04/20 APPR: MILLER 2009/04/21	QUALITY SYMBOLS	DESCRIPTION
	▽=0	
	▽=0	
	REV	

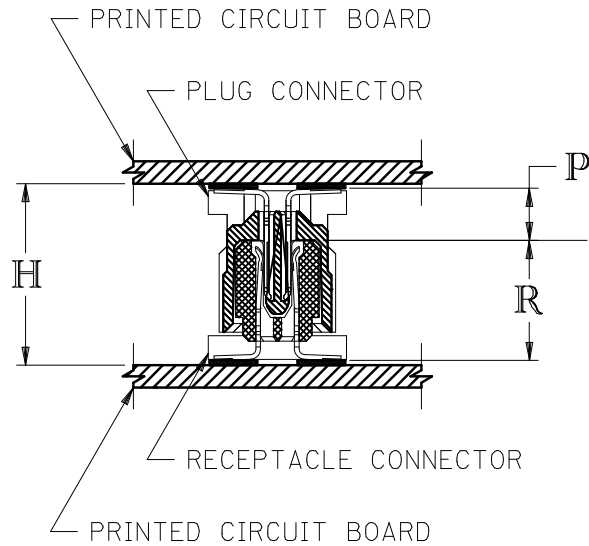
GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ± --- ± ---	
3 PLACES ± --- ± ---	
2 PLACES ± 0.13 ± ---	
1 PLACE ± 0.25 ± ---	
ANGULAR ±1/2°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE <b>MM ONLY</b>	
DRAWN BY	DATE
WGM	97/08/04
CHECKED BY	DATE
APPROVED BY	DATE
DJB	97/08/04
MATERIAL NO.	DOCUMENT NO.
SEE TABLE	SDA-71742-3***
SIZE	
C	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
METRIC		
TITLE		
SALES ASSY, 1.0MM 84 CKT BOARD-TO-BOARD RECPTACLE 10.3 STACK HEIGHT		
MATERIAL NO. DOCUMENT NO.		
MOLEX INCORPORATED		
SHEET NO.		
1 OF 2		

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***



$$\begin{aligned} & \text{PLUG STACK HEIGHT} \\ & + \text{RECEPTACLE STACK HEIGHT} \\ & + 0.40/.016 \text{ (SOLDER PASTE ALLOWANCE)} \\ & = \text{MATED STACK HEIGHT} \end{aligned}$$

P = PLUG STACK HEIGHT  
R = RECEPTACLE STACK HEIGHT  
H = MATED STACK HEIGHT

SEE SHEET 1 EC NO: UCP2009-2408 DRWN:BBARKER 2009/04/20 CHKD:JMORGAN 2009/04/20 APPR:SMILLER 2009/04/21	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <td></td> <td>mm</td> <td>INCH</td> </tr> <tr> <td>4 PLACES</td> <td>± .005</td> <td>± .0004</td> </tr> <tr> <td>3 PLACES</td> <td>± .005</td> <td>± .0004</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.13</td> <td>± .005</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± .010</td> </tr> </table> ANGULAR ±1/2°		mm	INCH	4 PLACES	± .005	± .0004	3 PLACES	± .005	± .0004	2 PLACES	± 0.13	± .005	1 PLACE	± 0.25	± .010	DIMENSION STYLE <b>MM ONLY</b>	SCALE DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm	INCH																
		4 PLACES		± .005	± .0004																
		3 PLACES		± .005	± .0004																
2 PLACES	± 0.13	± .005																			
1 PLACE	± 0.25	± .010																			
DRAWN BY WGM	DATE 97/08/04	TITLE SALES ASSY, 1.0MM 84 CKT BOARD-TO-BOARD RECP TACLE 10.3 STACK HEIGHT																			
CHECKED BY	DATE	MOLEX MOLEX INCORPORATED																			
APPROVED BY DJB	DATE 97/08/04	MATERIAL NO. SEE TABLE	DOCUMENT NO. SDA-71742-3***																		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

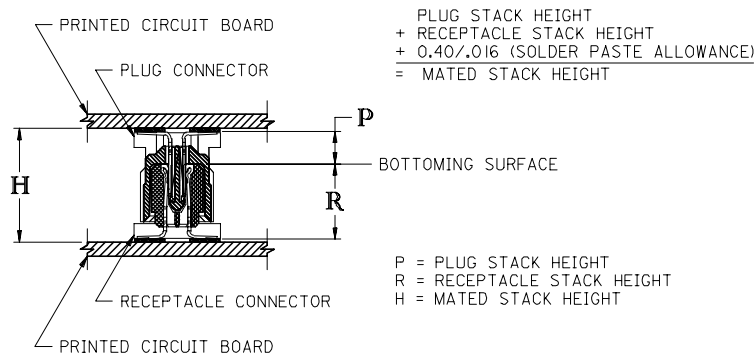
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\*RECOMMENDED PLUG/RECEPTACLE COMBINATION FOR  
MATED STACK HEIGHT PER EIA STANDARD 700 AAAB

MATED STACK HEIGHT	RECEPTACLE HEIGHT	RECEPTACLE SERIES NO.	PLUG HEIGHT	PLUG SERIES NO.
*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***



CHG TO NEW BORDER EC NO: UCP2007-1510 DRAWN BY: DRW:NBARKER CHKD: MIBARRA APPR: SMILLER 2007/01/04 2007/01/04 2007/01/05	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± --- ± ---	1 PLACE ± --- ± ---	ANGULAR ±1/2°	DRAWN BY KAS	DATE 98/12/28	TITLE SALES ASSEMBLY, 10 MM 84 CKT., BTB RECEPTACLE 10.30/.406 STACK HEIGHT		
						CHECKED BY KAS	DATE 98/12/28	MOLEX INCORPORATED			
						APPROVED BY DJB	DATE 98/12/28	MATERIAL NO. SDA-71742-3***		SHEET NO. 2 OF 2	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SEE TABLE		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 1