

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

**Part Number:** [0717420001](#)  
**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

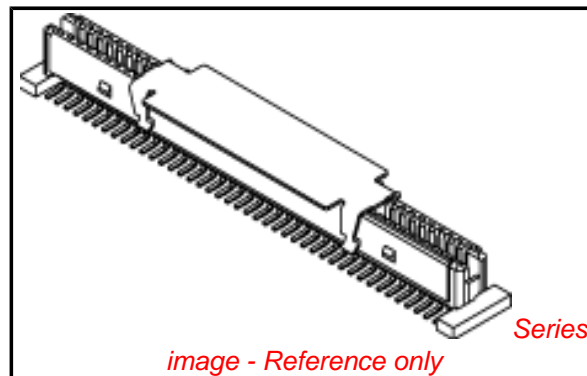
**Electrical**

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](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 10mm, [717412](#) for Stack Height 8mm

**Reference - Drawing Numbers**

Product Specification  
Sales Drawing

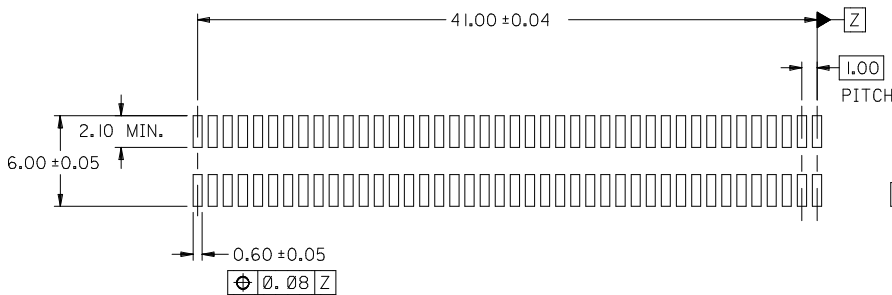
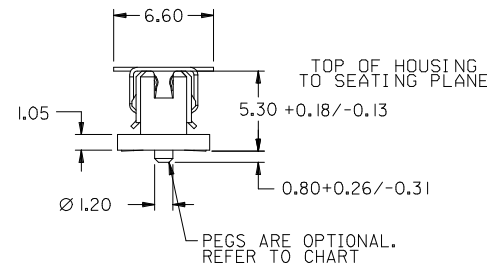
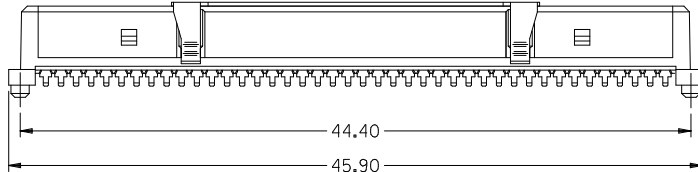
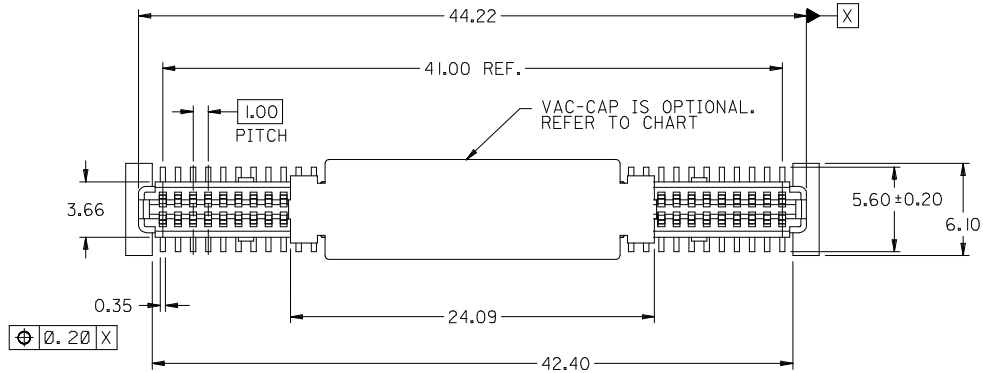
PS-71741-9999  
SDA-71742-0\*\*\*

This document was generated on 04/08/2010

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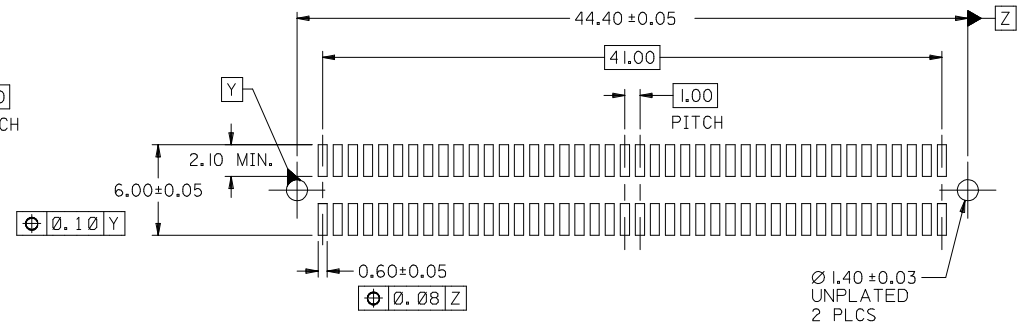
**NOTES:**

- HOUSING MATERIAL: GLASS FILLED LIQUID CRYSTAL POLYMER (LCP);  
UL RATING: 94V-0; COLOR: WHITE  
TERMINAL MATERIAL: PHOSPHOR BRONZE  
VACUUM CAP MATERIAL: STAINLESS STEEL
- COPLANARITY OF SMT TAILS: 0.10 MAX.
- DIMENSIONS ARE IN MILLIMETERS.
- PACKAGING SPECIFICATIONS: REFER TO CHART
- THIS PART, WHEN MATED WITH MOLEX U.S. PART NO. 71741-0\*\*\* OR MOLEX JAPAN PART NO. 53543-0849, CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-71741-9999.



**RECOMMENDED PCB LAYOUT**

RECOMMENDED PCB THICKNESS: 1.0 ± 0.1mm MIN.



**RECOMMENDED PCB LAYOUT WITH PEGS**

RECOMMENDED PCB THICKNESS: 1.0 ± 0.1mm MIN.

**PLATINGS:**

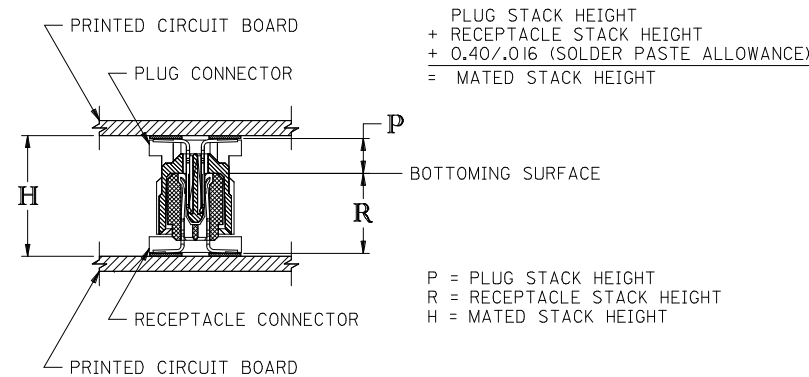
- X21 - .76 MICROMETER/(30 MICROINCH) MINIMUM GOLD PLATE IN SELECT AREA, 1.91 MICROMETER/(75 MICROINCH) MINIMUM TIN PLATE IN SELECT AREA, OVER NICKEL UNDERPLATE.
- X71 - .25 MICROMETER/(10 MICROINCH) MINIMUM GOLD PLATE IN SELECT AREA, 1.02 MICROMETER/(40 MICROINCH) MINIMUM TIN PLATE IN SELECT AREA, OVER NICKEL UNDERPLATE.

ADD 8MM STACK HT EC NO: UCP2009-2408 DRWN: BARKER 2009/04/20 CHKD: JORGAN 2009/04/20 APPR: SMILLER 2009/04/21	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .007 2 PLACES ± 0.18 ± .013 1 PLACE ± 0.33 ± --- ANGULAR ± 1/2°	DIMENSION STYLE MM ONLY DRAWN BY DATE JRR 95/08/14 CHECKED BY DATE SMR 95/08/14 APPROVED BY DATE CAB 95/08/14	SCALE DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE SALES ASSEMBLY, 1 MM 84 CKT, BTB RECEPTACLE 5.30/.209 STACK HEIGHT	
	MATERIAL NO. SEE TABLE	DOCUMENT NO. SDA-71742-0***	SHEET NO. 1 OF 2	MOLEX MOLEX INCORPORATED		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	REV K	DESCRIPTION				

71742-0006	YES	YES	PK-70873-063	TAPE & REEL	X21
71742-0005	NO	YES	PK-70873-063	TAPE & REEL	X21
71742-0004	YES	NO	PK-70873-013	TUBE	X71
71742-0003	YES	YES	PK-70873-063	TAPE & REEL	X71
71742-0002	NO	NO	PK-70873-015	TUBE	X71
71742-0001	NO	YES	PK-70873-063	TAPE & REEL	X71
ITEM NUMBER	PEGS	PICK & PLACE CAP	PACKAGING SPEC. NUMBER	PACKAGING TYPE	TERMINAL PLATING SEE SHEET 1

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.
8.00	5.30	71742-0***	2.30	71741-2***
10.00	5.30	71742-0***	4.30	71741-0***



<b>SEE SHEET 1</b> EC NO: UCP2009-2408 DRWN:BBARKER 2009/04/20 CHKD:JMORGAN 2009/04/20 APPR:SMILLER 2009/04/21 REV K	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>± .007</td></tr> <tr><td>2 PLACES</td><td>± 0.18</td><td>± .013</td></tr> <tr><td>1 PLACE</td><td>± 0.33</td><td>± .---</td></tr> </tbody> </table>		mm	INCH	4 PLACES	± .---	± .---	3 PLACES	± .---	± .007	2 PLACES	± 0.18	± .013	1 PLACE	± 0.33	± .---	DIMENSION STYLE <b>MM ONLY</b>	SCALE DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION
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