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**Part Number:** [0717420005](#)  
**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) 30.4  
Plating min: Mating (µm) 0.76  
Plating min: Termination (µin) 76.4  
Plating min: Termination (µm) 1.91  
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

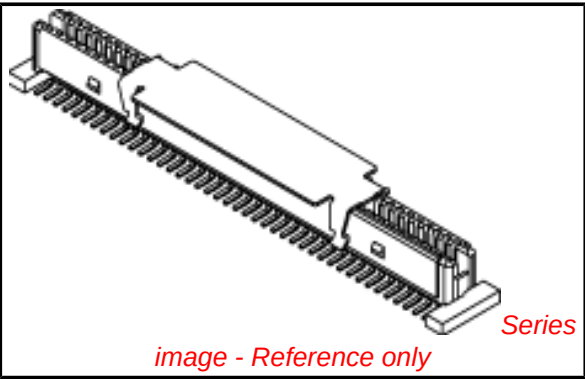
**Electrical**

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**  
**Not Reviewed**

**China RoHS**



**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.

**Search Parts in this Series**

[71742Series](#)

**Mates With**

[717410](#) for Stack Height 10mm, [717412](#) for Stack Height 8mm

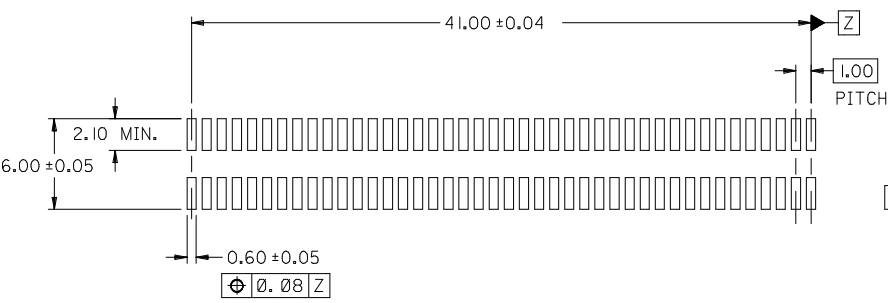
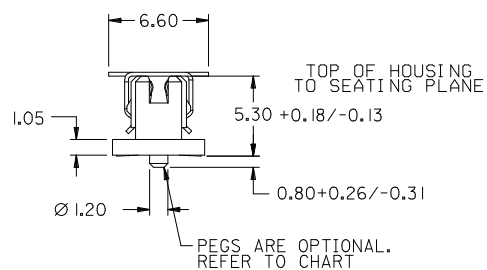
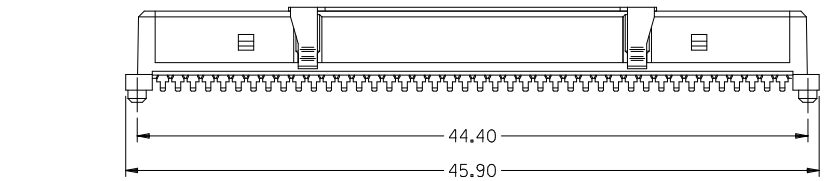
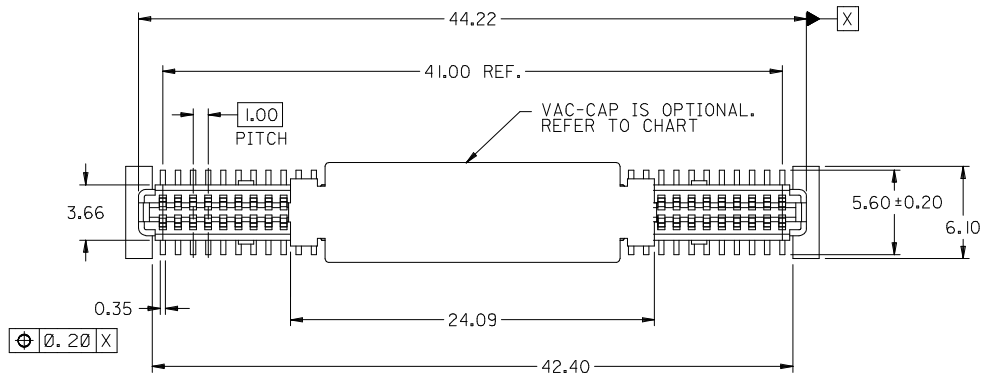
**Reference - Drawing Numbers**

Product Specification  
Sales Drawing

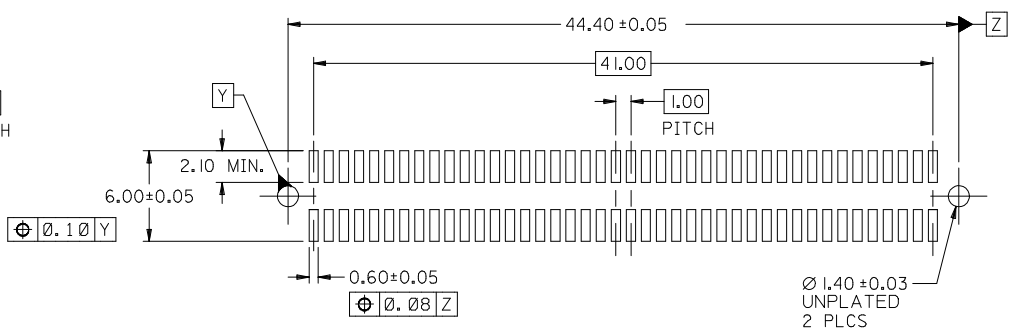
PS-71741-9999  
SDA-71742-0\*\*\*

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**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.

**NOTES:**

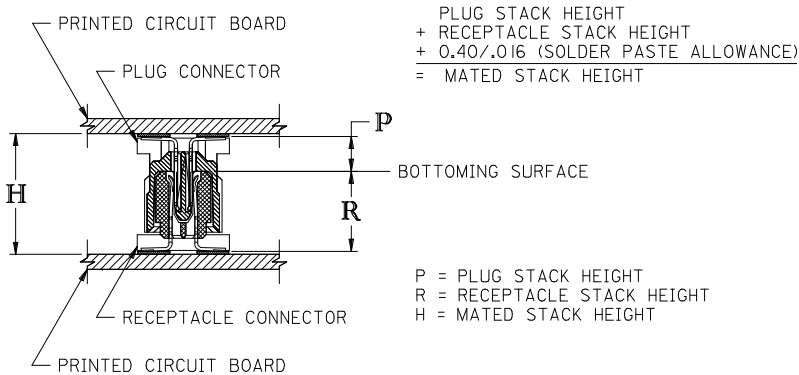
- 1. HOUSING MATERIAL: GLASS FILLED LIQUID CRYSTAL POLYMER (LCP);  
UL RATING: 94V-0; COLOR: WHITE  
TERMINAL MATERIAL: PHOSPHOR BRONZE  
VACUUM CAP MATERIAL: STAINLESS STEEL
- 2. COPLANARITY OF SMT TAILS: 0.10 MAX.
- 3. DIMENSIONS ARE IN MILLIMETERS.
- 4. PACKAGING SPECIFICATIONS: REFER TO CHART
- 5. 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.

|                                                                                                                                    |             |                                   |                                                            |                           |                            |                                                                                                                                  |                  |                                                                                   |                                                                                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|------------------------------------------------------------|---------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--|
| ADD 8MM STACK HT<br>EC NO: UCP2009-2408<br>DRWN: BARKER 2009/04/20<br>CHKD: MORGAN 2009/04/20<br>APPR: SMILLER 2009/04/21<br><br>K | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |                           | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE            | DESIGN UNITS<br>METRIC                                                            |  THIRD ANGLE PROJECTION |  |
|                                                                                                                                    |             |                                   |                                                            | mm                        | INCH                       | DRAWN BY<br>JRR                                                                                                                  | DATE<br>95/08/14 | TITLE<br>SALES ASSEMBLY, 1 MM<br>84 CKT, BTB RECEPTACLE<br>5.30/.209 STACK HEIGHT |                                                                                                              |  |
|                                                                                                                                    |             |                                   | 4 PLACES                                                   | ± ---                     | ± ---                      | CHECKED BY<br>SMR                                                                                                                | DATE<br>95/08/14 |                                                                                   |                                                                                                              |  |
|                                                                                                                                    |             |                                   | 3 PLACES                                                   | ± ---                     | ± .007                     |                                                                                                                                  |                  |                                                                                   |                                                                                                              |  |
|                                                                                                                                    |             |                                   | 2 PLACES                                                   | ± .18                     | ± .013                     | APPROVED BY<br>CAB                                                                                                               | DATE<br>95/08/14 | MOLEX MOLEX INCORPORATED                                                          |                                                                                                              |  |
|                                                                                                                                    |             | ANGULAR ±1/2°                     |                                                            | MATERIAL NO.<br>SEE TABLE |                            | DOCUMENT NO.<br>SDA-71742-0***                                                                                                   |                  | SHEET NO.<br>1 OF 2                                                               |                                                                                                              |  |
| REV                                                                                                                                |             |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                           | SIZE<br>C                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                  |                                                                                   |                                                                                                              |  |

|             |      |                  |                        |                |                              |
|-------------|------|------------------|------------------------|----------------|------------------------------|
| 71742-0006  | YES  | YES              | PK-70873-063           | TAPE & REEL    | X2I                          |
| 71742-0005  | NO   | YES              | PK-70873-063           | TAPE & REEL    | X2I                          |
| 71742-0004  | YES  | NO               | PK-70873-013           | TUBE           | X7I                          |
| 71742-0003  | YES  | YES              | PK-70873-063           | TAPE & REEL    | X7I                          |
| 71742-0002  | NO   | NO               | PK-70873-015           | TUBE           | X7I                          |
| 71742-0001  | NO   | YES              | PK-70873-063           | TAPE & REEL    | X7I                          |
| 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***      |



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