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**Part Number:** [0717412002](#)  
**Status:** **Active**  
**Description:** 1.00mm (.039") Pitch Mezzanine Plug, Surface Mount, Dual Row, Vertical Stacking, 84 Circuits, 6.35mm (.250") Unmated Height, without PCB Locator Pegs, with Robotic Placement Metal Cap, 0.76µm (30µ") Gold (Au) Selective Plating, Embossed Tape o

**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 Headers  
Series [71741](#)  
Application Board-to-Board  
Product Name Mezzanine

**Physical**

Breakaway No  
Circuits (Loaded) 84  
Circuits (maximum) 84  
Color - Resin Natural  
Flammability 94V-0  
Glow-Wire Compliant No  
Lock to Mating Part None  
Mated Height (in) 0.315 In, 0.512 In  
Mated Height (mm) 13.00 mm, 8.00 mm  
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 No  
PCB Retention None  
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  
Robotic Placement Pick and Place Cap  
Shrouded Fully  
Stackable No  
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)

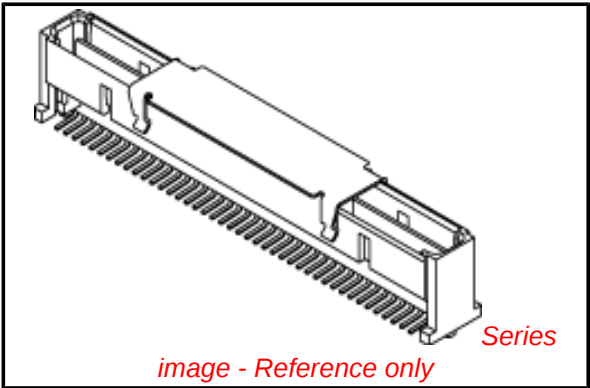


image - Reference only

**EU RoHS**

**ELV and RoHS  
Compliant**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Not Reviewed**

**China RoHS**



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For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

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non-product compliance questions.

**Search Parts in this Series**

[71741Series](#)

**Mates With**

[717420](#) for Stack Height 8mm, [717423](#) for  
Stack Height 13mm

|                                    |                |
|------------------------------------|----------------|
| Process Temperature max. C         | 260            |
| <b>Material Info</b>               |                |
| <b>Reference - Drawing Numbers</b> |                |
| Product Specification              | PS-71741-9999  |
| Sales Drawing                      | SDA-71741-2*** |

This document was generated on 03/31/2010

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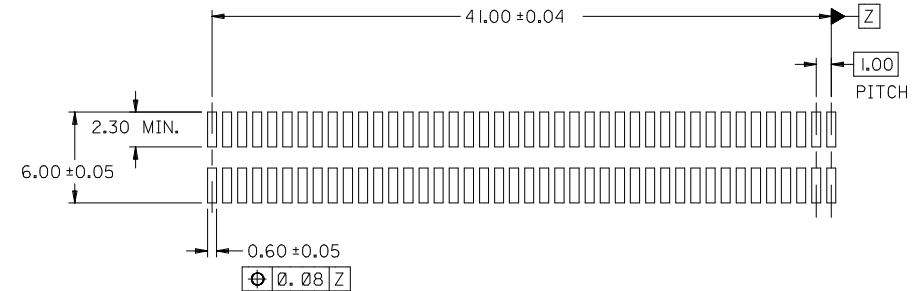
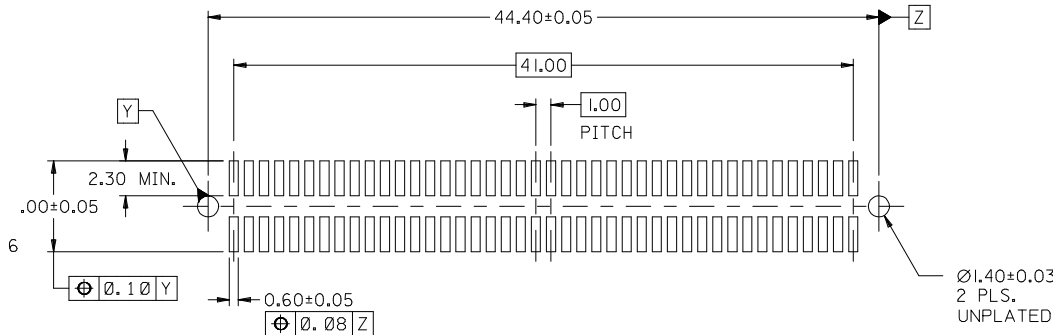
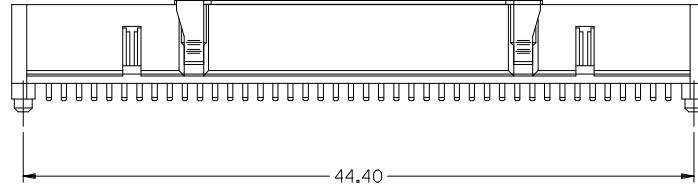
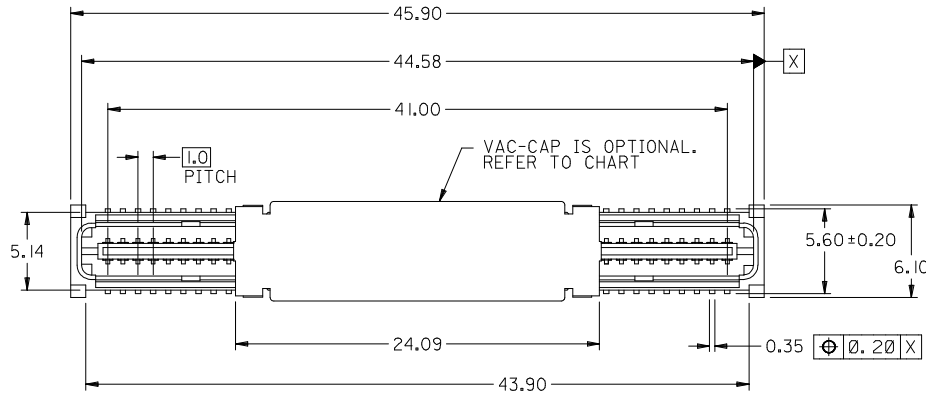
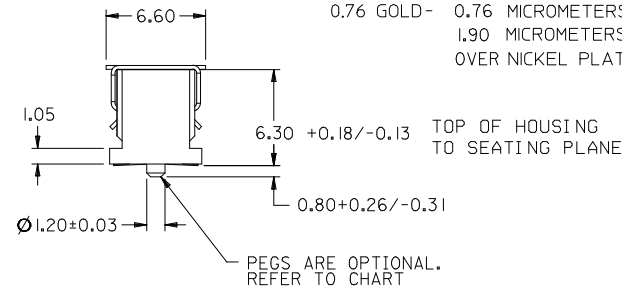
|             |      |                  |                        |                |                  |
|-------------|------|------------------|------------------------|----------------|------------------|
| 71741-2002  | NO   | YES              | PK-70873-063           | TAPE & REEL    | 0.76 GOLD        |
| 71741-2001  | YES  | YES              | PK-70873-063           | TAPE & REEL    | 0.76 GOLD        |
| ITEM NUMBER | PEGS | PICK & PLACE CAP | PACKAGING SPEC. NUMBER | PACKAGING TYPE | TERMINAL PLATING |

### NOTES:

- HOUSING MATERIAL: G.F. THERMOPLASTIC; UL RATING: 94V-0; COLOR: WHITE  
TERMINAL MATERIAL: PHOSPHOR BRONZE  
VACUUM CAP MATERIAL: STAINLESS STEEL
- COPLANARITY OF SMT TAILS: 0.10 MAX.
- PACKAGING SPECIFICATIONS: REFER TO CHART
- DIMENSIONS ARE IN MILLIMETERS.
- THIS PART, WHEN MATED WITH MOLEX U.S. PART NO. 71742-0\*\*\* OR MOLEX JAPAN PART NO. 52841-0848, CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-71741-9999.

### PLATING CODE:

0.76 GOLD- 0.76 MICROMETERS MINIMUM GOLD PLATING IN CONTACT AREA,  
1.90 MICROMETERS MINIMUM TIN PLATING IN TERMINAL AREA,  
OVER NICKEL PLATING OVERALL



### RECOMMENDED PCB LAYOUT

RECOMMENDED PCB THICKNESS: 1.0±0.1mm MIN.

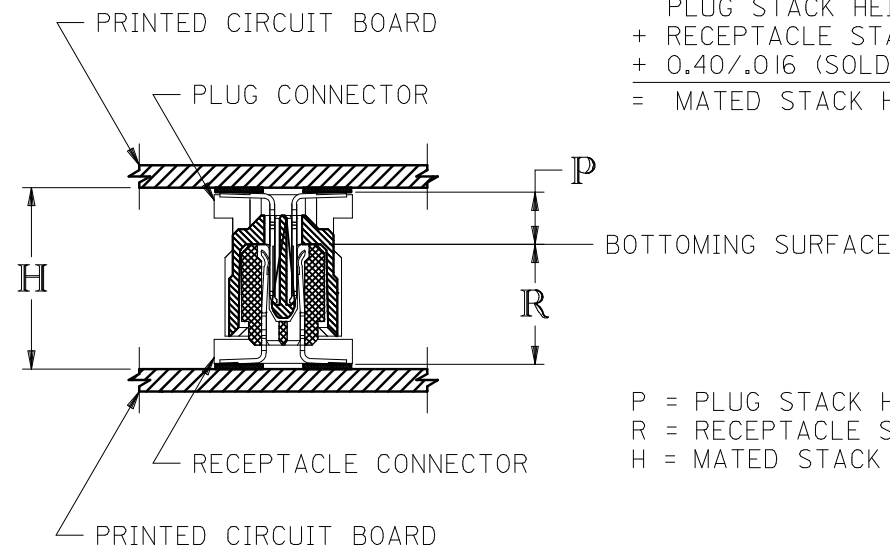
### RECOMMENDED PCB LAYOUT (WITHOUT PEGS)

RECOMMENDED PCB THICKNESS: 1.0±0.1mm MIN.

|                                                                                                                              |             |                                                  |                                                            |  |  |                            |  |                                                                                                                               |                        |                        |  |
|------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------|------------------------------------------------------------|--|--|----------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|--|
| CLARIFY DIMENSIONS<br>EC NO: UCP2009-2408<br>DRWN: BARKER 2009/04/20<br>CHKD: DMORGAN 2009/04/20<br>APPR: SMILLER 2009/04/21 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  |  | DIMENSION STYLE<br>MM ONLY |  | SCALE                                                                                                                         | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |
|                                                                                                                              |             |                                                  |                                                            |  |  | DRAWN BY DATE              |  | TITLE                                                                                                                         |                        |                        |  |
|                                                                                                                              |             |                                                  | 4 PLACES ± --- ± ---                                       |  |  | JJS 99/08/16               |  | SALES ASSEMBLY, 1 MM                                                                                                          |                        |                        |  |
|                                                                                                                              |             |                                                  | 3 PLACES ± --- ± ---                                       |  |  | CHECKED BY DATE            |  | 84 CKT, BTB PLUG                                                                                                              |                        |                        |  |
|                                                                                                                              |             |                                                  | 2 PLACES ± 0.18 ± ---                                      |  |  | PAR 99/08/16               |  | 2.30 MM STACK HEIGHT                                                                                                          |                        |                        |  |
|                                                                                                                              |             |                                                  | 1 PLACE ± 0.33 ± ---                                       |  |  | APPROVED BY DATE           |  | MOLEX INCORPORATED                                                                                                            |                        |                        |  |
|                                                                                                                              |             |                                                  | ANGULAR ±1/2°                                              |  |  | DJB 99/08/16               |  | MOLEX INCORPORATED                                                                                                            |                        |                        |  |
|                                                                                                                              |             |                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  |  | MATERIAL NO.               |  | DOCUMENT NO.                                                                                                                  |                        | SHEET NO.              |  |
|                                                                                                                              |             |                                                  |                                                            |  |  | SEE TABLE                  |  | SDA-71741-2***                                                                                                                |                        | 1 OF 2                 |  |
|                                                                                                                              |             |                                                  |                                                            |  |  | SIZE                       |  | 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<br>HEIGHT "H" | RECEPTACLE<br>HEIGHT "R" | RECEPTACLE<br>SERIES NO. | PLUG HEIGHT<br>"P" | PLUG SERIES<br>NO. |
|---------------------------|--------------------------|--------------------------|--------------------|--------------------|
| 8.00/-.315                | 5.30/-.209               | 71742-0***               | 2.30/-.091         | 71741-2***         |
| 13.00/-.512               | 10.30/-.406              | 71742-3***               |                    |                    |



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

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

|             |                     |            |             |                                       |                                                            |                      |                            |                                                                                                                               |                    |                        |                        |                                                                                            |
|-------------|---------------------|------------|-------------|---------------------------------------|------------------------------------------------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|------------------------|--------------------------------------------------------------------------------------------|
| SEE SHEET 1 | EC NO: UCP2009-2408 | 2009/04/20 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br><br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |                      | DIMENSION STYLE<br>MM ONLY |                                                                                                                               | SCALE<br>1:1       | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION | SALES ASSEMBLY, 1 MM<br>84 CKT, BTB PLUG<br>2.30 MM STACK HEIGHT<br><br>MOLEX INCORPORATED |
|             | DRWN:BARKER         | 2009/04/20 |             |                                       | mm                                                         | INCH                 | DRAWN BY<br>JJS            | DATE<br>99/08/16                                                                                                              | TITLE              |                        |                        |                                                                                            |
|             | CHKD:MORGAN         | 2009/04/20 |             |                                       | 4 PLACES ± --- ± ---                                       | 3 PLACES ± --- ± --- | CHECKED BY<br>PAR          | DATE<br>99/08/16                                                                                                              |                    |                        |                        |                                                                                            |
|             | APPR:SMILLER        | 2009/04/21 |             |                                       | 2 PLACES ± 0.18 ± ---                                      | 1 PLACE ± 0.33 ± --- | APPROVED BY<br>DJB         | DATE<br>99/08/16                                                                                                              | MOLEX INCORPORATED |                        |                        |                                                                                            |
|             |                     |            |             |                                       | ANGULAR ±1/2°                                              |                      | MATERIAL NO.               | DOCUMENT NO.                                                                                                                  | SHEET NO.          |                        |                        |                                                                                            |
| D           |                     |            | REV         |                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                      | SEE TABLE                  |                                                                                                                               | SDA-71741-2***     |                        | 2 OF 2                 |                                                                                            |
|             |                     |            |             |                                       |                                                            |                      | SIZE                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                        |                        |                                                                                            |



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