

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

**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**

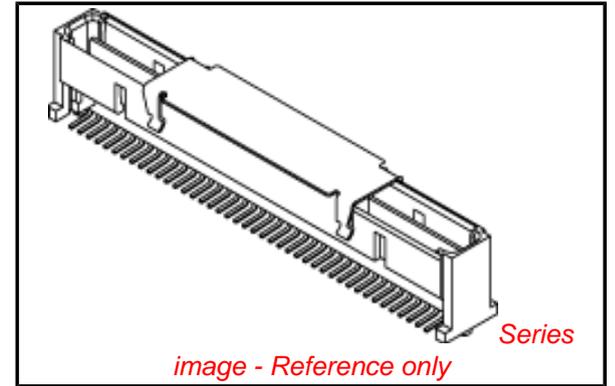
Breakaway No  
 Circuits (Loaded) 84  
 Circuits (maximum) 84  
 Color - Resin Natural  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Lock to Mating Part None  
 Mated Height (in) 0.315 In, 0.512 In  
 Mated Height (mm) 13.00 mm, 8.00 mm  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating 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)



**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC**  
 Not Reviewed  
**Halogen-Free Status**

**China RoHS**



**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.

**Search Parts in this Series**

[71741Series](#)

**Mates With**

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

Process Temperature max. C

260

**Material Info**

**Reference - Drawing Numbers**

Product Specification

PS-71741-9999

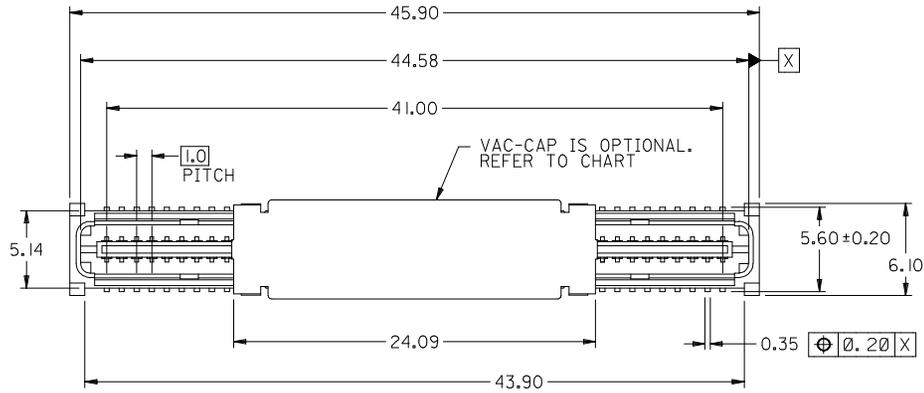
Sales Drawing

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

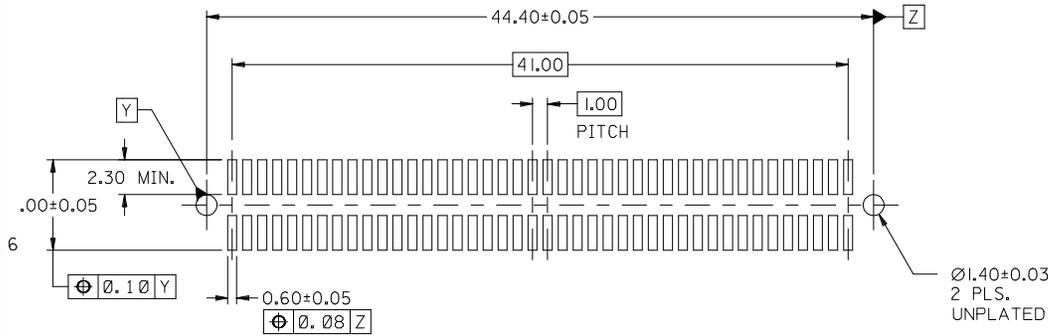
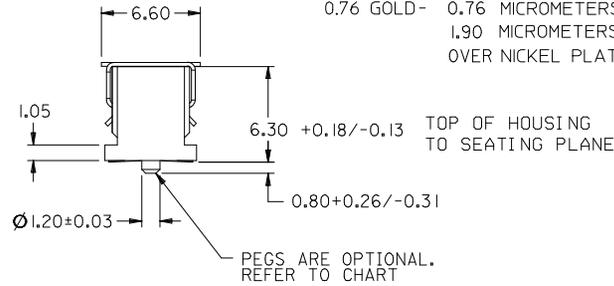
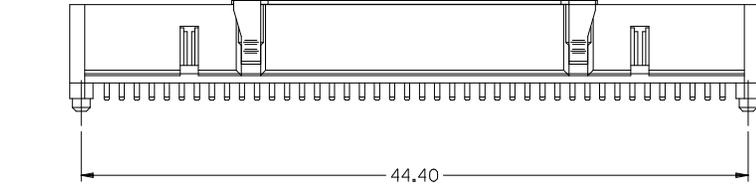


**NOTES:**

- 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.

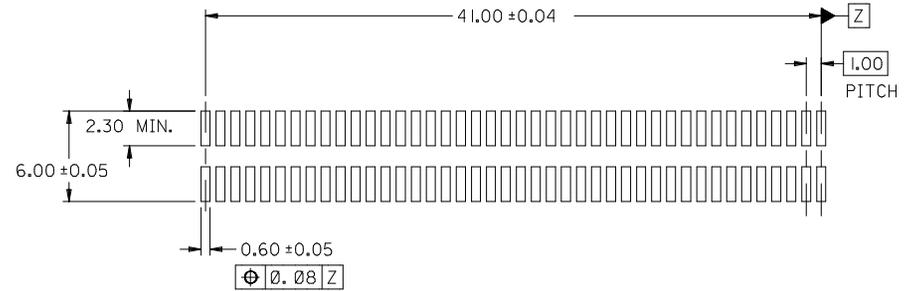
**PLATING CODE:**

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.



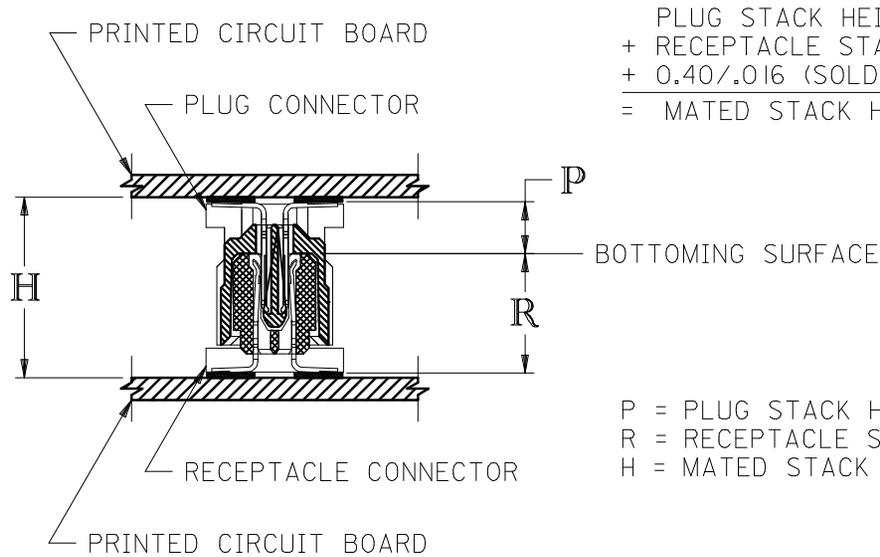
**RECOMMENDED PCB LAYOUT (WITHOUT PEGS)**

RECOMMENDED PCB THICKNESS: 1.0±0.1mm MIN.

<b>CLARIFY DIMENSIONS</b> 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>± 0.18</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.33</td> <td>± ---</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.18	± ---	1 PLACE	± 0.33	± ---	DIMENSION STYLE <b>MM ONLY</b> DRAWN BY DATE JJS 99/08/16 CHECKED BY DATE PAR 99/08/16 APPROVED BY DATE DJB 99/08/16	SCALE DESIGN UNITS <b>METRIC</b> THIRD ANGLE PROJECTION	TITLE <b>SALES ASSEMBLY, 1 MM          84 CKT, BTB PLUG          2.30 MM STACK HEIGHT</b> MOLEX INCORPORATED	MATERIAL NO. <b>SEE TABLE</b> DOCUMENT NO. <b>SDA-71741-2***</b> SHEET NO. <b>1 OF 2</b>
		mm	INCH																		
	4 PLACES	± ---	± ---																		
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	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 "H"	RECEPTACLE HEIGHT "R"	RECEPTACLE SERIES NO.	PLUG HEIGHT "P"	PLUG SERIES 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 DRWN:BBARKER 2009/04/20 CHKD:DMORGAN 2009/04/20 APPR:SMILLER 2009/04/21	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>		SCALE <b>1:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION			
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.18 ± ---	1 PLACE ± 0.33 ± ---	DRAWN BY JJS	DATE 99/08/16	SALES ASSEMBLY, 1 MM 84 CKT, BTB PLUG 2.30 MM STACK HEIGHT MOLEX INCORPORATED			
		ANGULAR ±1/2°				CHECKED BY PAR	DATE 99/08/16				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				APPROVED BY DJB	DATE 99/08/16	MATERIAL NO. <b>SEE TABLE</b>	DOCUMENT NO. <b>SDA-71741-2***</b>	SHEET NO. <b>2 OF 2</b>	

