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Part Number: [0717410002](#)
Status: **Active**
Description: 1.00mm (.039") Pitch Mezzanine Plug, Surface Mount, Dual Row, Vertical Stacking, 84 Circuits, 8.35mm (.329") Unmated Height, with PCB Locator Pegs, with Robotic Placement Metal Cap, 0.25µm (10µ") Gold (Au) Selective Plating, Embossed Tape on R

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

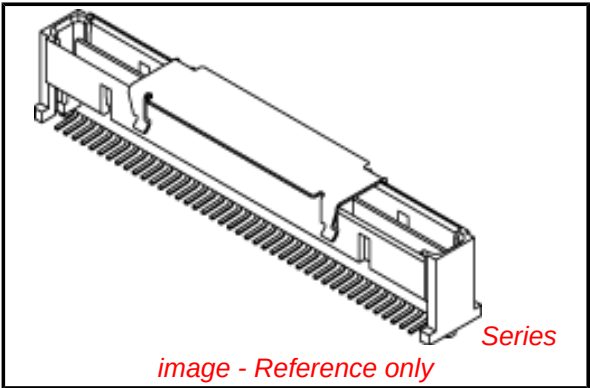
Physical

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) 0.394 In, 0.591 In
Mated Height (mm) 10.00 mm, 15.00 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 Yes
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) 10
Plating min: Mating (µm) 0.25
Plating min: Termination (µin) 40.8
Plating min: Termination (µm) 1.02
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



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Halogen-Free

China RoHS



Need more information on product environmental compliance?

Email 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 10mm, [717423](#) for Stack Height 15mm

Lead-free Process Capability
Process Temperature max. C

Reflow Capable (SMT only)
260

Material Info

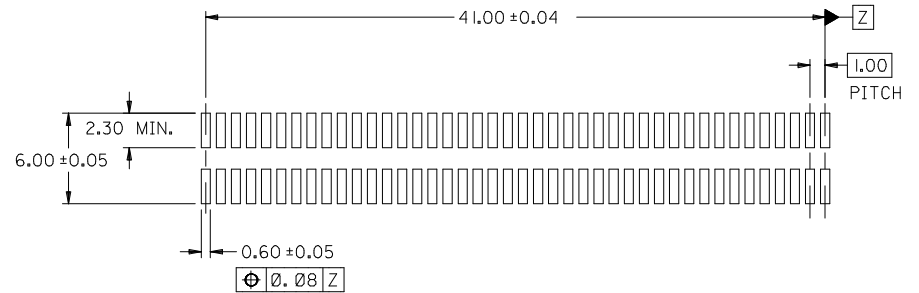
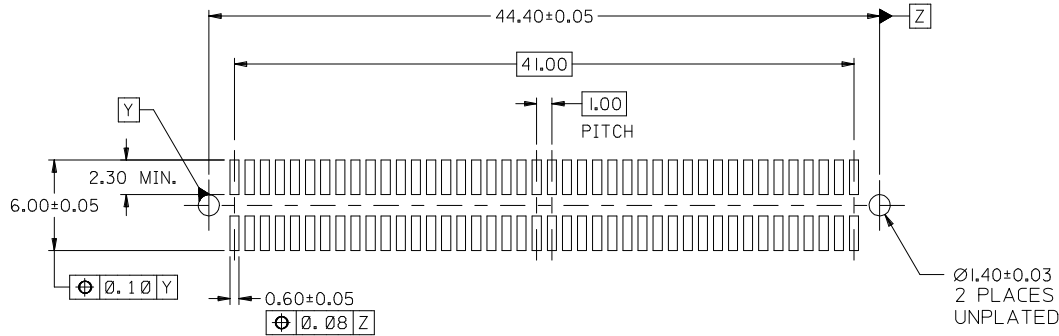
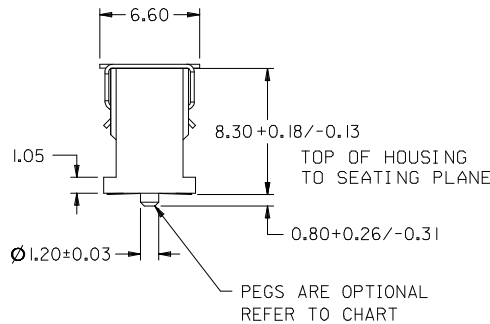
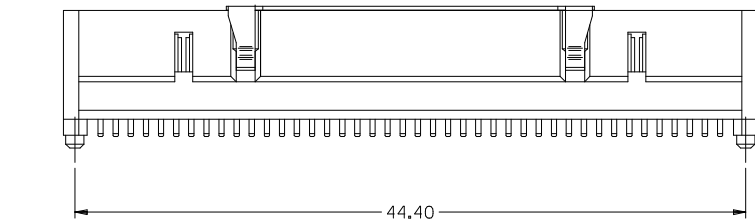
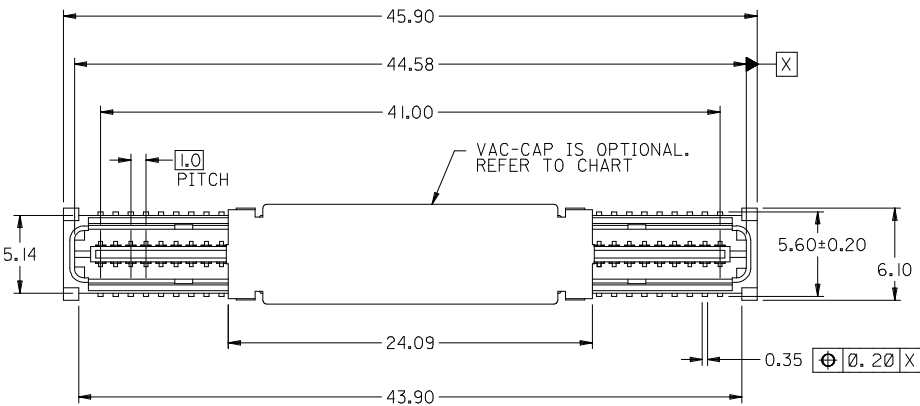
Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-71741-9999
SDA-71741-0***

This document was generated on 03/31/2010

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71741-0004	YES	YES	PK-70873-063	TAPE & REEL	0.76 GOLD
71741-0003	NO	YES	PK-70873-063	TAPE & REEL	0.76 GOLD
71741-0002	YES	YES	PK-70873-063	TAPE & REEL	0.25 GOLD
71741-0001	YES	NO	PK-70873-0607	TUBE	0.25 GOLD
ITEM NUMBER	PEGS	PICK & PLACE CAP	PACKAGING SPEC. NUMBER	PACKAGING TYPE	TERMINAL PLATING

PLATING

- 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
- 0.25 GOLD - 0.25 MICROMETERS MINIMUM GOLD PLATING IN CONTACT AREA, 1.00 MICROMETERS MINIMUM TIN PLATING IN TERMINAL AREA, OVER NICKEL PLATING OVERALL

RECOMMENDED PCB LAYOUT

RECOMMENDED PCB THICKNESS: 1.0±0.1mm MIN.

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.

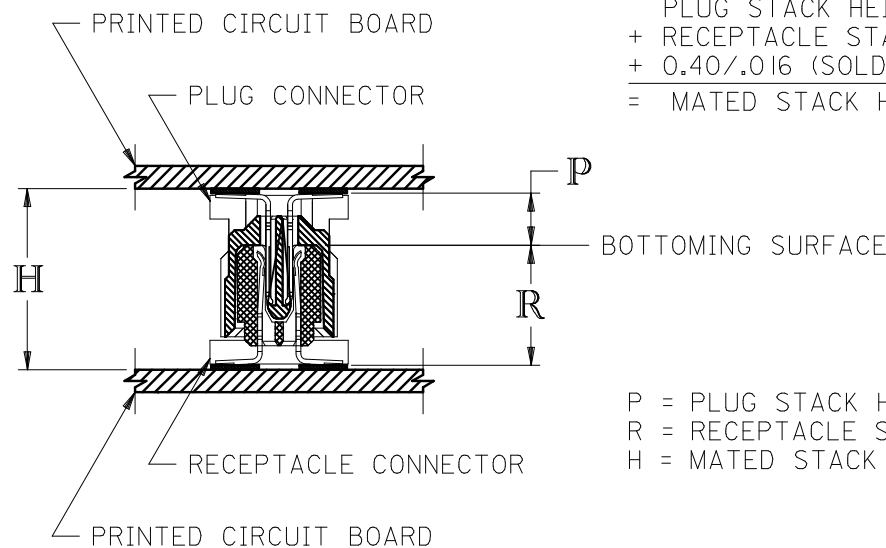
RECOMMENDED PCB LAYOUT (WITHOUT PEGS)

RECOMMENDED PCB THICKNESS: 1.0±0.1mm MIN.

ADD 12 MM STACK EC NO: UCP2009-2408 DRAWN BY: DRWN:BARKER 2009/04/20 CHKD:DMORGAN 2009/04/20 APPR:SMILLER 2009/04/21	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					mm	INCH	DRAWN BY	DATE	TITLE SALES ASSEMBLY, 1 MM 84 CKT, BTB PLUG 4.30 MM STACK HEIGHT MOLEX INCORPORATED	DOCUMENT NO. SDA-71741-0***	SHEET NO. 1 OF 2		
				4 PLACES	± ---	± ---	REED	96/07/15					
				3 PLACES	± ---	± ---	CHECKED BY	DATE					
				2 PLACES	± 0.18	± ---	REED	96/07/15					
				1 PLACE	± 0.33	± ---	APPROVED BY	DATE					
				ANGULAR ±1/2°		BIXLER	96/07/15						
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE							
						SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
						C							

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.
10.00/-.394	5.30/-.209	71742-0***	4.30/-.169	71741-0***
12.00/-.472	7.30/-.287	71742-2***		
15.00/-.591	10.30/-.406	71742-3***		



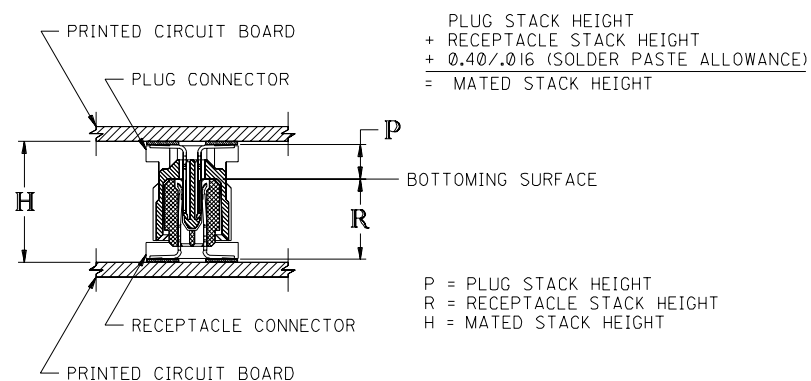
$$\begin{aligned} &\text{PLUG STACK HEIGHT} \\ &+ \text{RECEPTACLE STACK HEIGHT} \\ &+ 0.40/-.016 \text{ (SOLDER PASTE ALLOWANCE)} \\ &= \text{MATED STACK HEIGHT} \end{aligned}$$

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

SEE SHEET 1 EC NO: UCP2009-2408 2009/04/20 DRWN:BBARKER CHKD:DMORGAN 2009/04/20 APPR:SMILLER 2009/04/21	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		mm	INCH	DRAWN BY	DATE	TITLE SALES ASSEMBLY, 1 MM 84 CKT, BTB PLUG 4.30 MM STACK HEIGHT		
		4 PLACES ± ---	± ---	REED	96/07/15			
		3 PLACES ± ---	± ---	CHECKED BY	DATE			
		2 PLACES ± 0.18	± ---	REED	96/07/15	MOLEX INCORPORATED		DOCUMENT NO. SDA-71741-0***
		1 PLACE ± 0.33	± ---	APPROVED BY	DATE			
		ANGULAR ± 1/2°		BIXLER	96/07/15			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE				SHEET NO. 2 OF 2
		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	RECEPTACLE HEIGHT	RECEPTACLE SERIES NO.	PLUG HEIGHT	PLUG SERIES NO.
10.00/.394	5.30/.209	71742-0***	4.30/.169	71741-0***
15.00/.591	10.30/.406	71742-3***	4.30/.169	71741-0***



METRIC

UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 1/2^\circ$			
	INCH	METRIC	
3 PLACE	$\pm$ ----	-----	
2 PLACE	$\pm$ ----	$\pm$ ----	
1 PLACE	-----	$\pm$ -----	

DRAFT WHERE APPLICABLE MUST
REMAIN WITHIN DIMENSIONS

DRWG. BY	KAS	CHK'D. BY	KAS
APP'D. BY	DJB	SCALE	NONE

TITLE		REVISE ONLY ON CAD SYSTEM	
SALES ASSY, 1.0mm 84 CKT.			
BOARD-TO-BOARD PLUG			
4.30/.169 STACK HEIGHT			
MOLEX		SHEET NO.	DATE
LITTLE, ILL. 60532		2	98/12/28
PART NO.	DRWG.	SEE SHT 1	
FILE NAME	SDA-71741-0-000		SIZE
71741-0			C
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.			DRP.