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Part Number: [0717412001](#)
Status: **Active**
Description: 1.00mm (.039") Pitch Mezzanine Plug, Surface Mount, Dual Row, Vertical Stacking, 84 Circuits, 6.35mm (.250") Unmated Height, with PCB Locator Pegs, with Robotic Placement Metal Cap, 0.76µm (30µ") 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

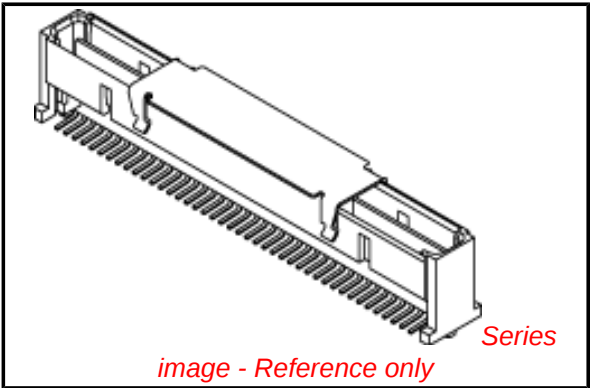
Physical

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) 0.315 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 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) 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



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

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

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-71741-2***

This document was generated on 03/31/2010

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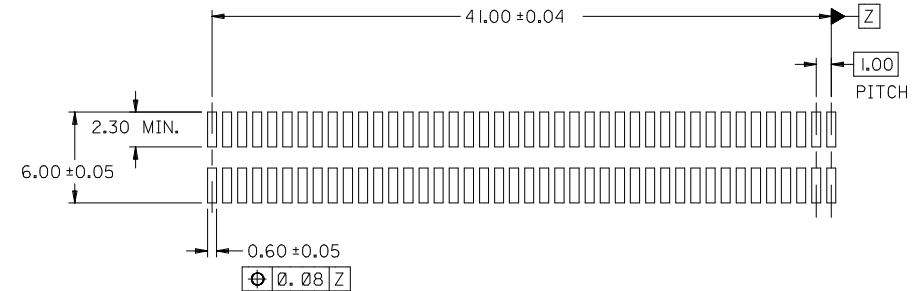
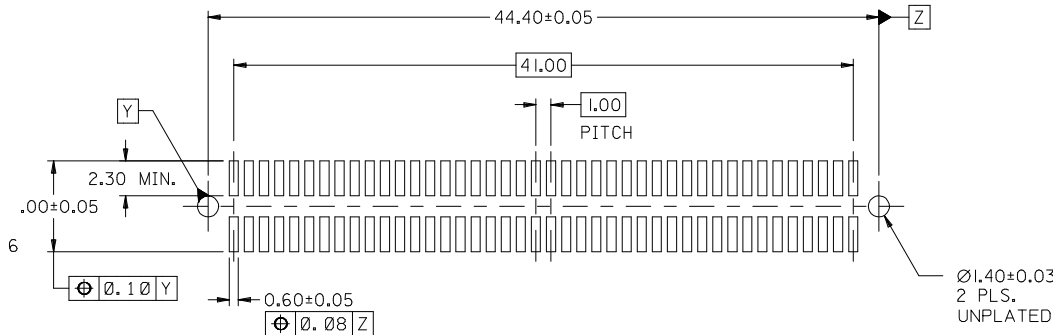
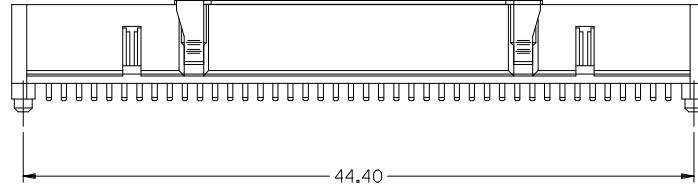
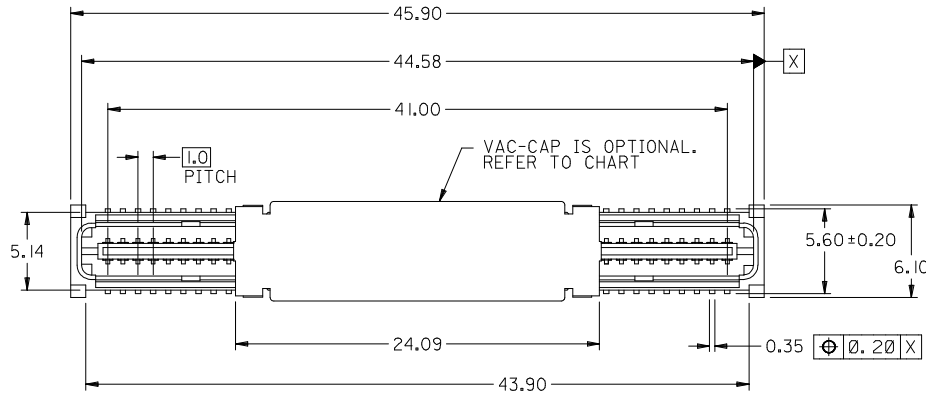
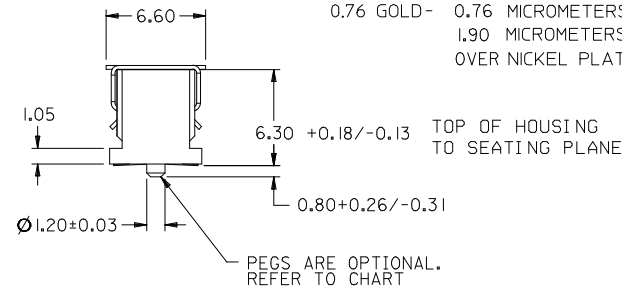
71741-2002	NO	YES	PK-70873-063	TAPE & REEL	0.76 GOLD
71741-2001	YES	YES	PK-70873-063	TAPE & REEL	0.76 GOLD
ITEM NUMBER	PEGS	PICK & PLACE CAP	PACKAGING SPEC. NUMBER	PACKAGING TYPE	TERMINAL PLATING

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.

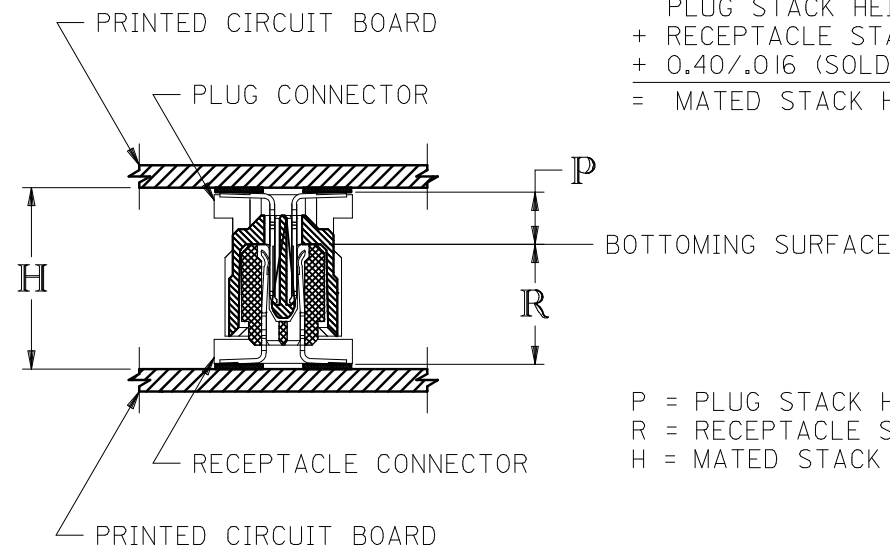
RECOMMENDED PCB LAYOUT (WITHOUT PEGS)

RECOMMENDED PCB THICKNESS: 1.0±0.1mm MIN.

CLARIFY DIMENSIONS EC NO: UCP2009-2408 DRWN: BARKER 2009/04/20 CHKD: DMORGAN 2009/04/20 APPR: SMILLER 2009/04/21	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY JJS		DATE 99/08/16	TITLE SALES ASSEMBLY, 1 MM 84 CKT, BTB PLUG 2.30 MM STACK HEIGHT MOLEX INCORPORATED	SHEET NO. 1 OF 2
			4 PLACES	±---	±---	CHECKED BY PAR		DATE 99/08/16		
			3 PLACES	±---	±---	APPROVED BY DJB		DATE 99/08/16		
			2 PLACES	±0.18	±---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SDA-71741-2***		
			1 PLACE	±0.33	±---	ANGULAR ±1/2°				
REV			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		C 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***		



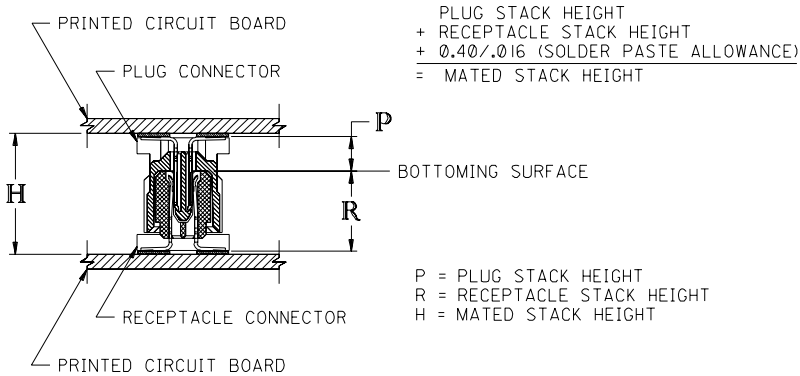
$$\begin{aligned}
 &\text{PLUG STACK HEIGHT} \\
 &+ \text{RECEPTACLE STACK HEIGHT} \\
 &+ 0.40/-.016 \text{ (SOLDER PASTE ALLOWANCE)} \\
 &= \text{MATED STACK HEIGHT}
 \end{aligned}$$

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

SEE SHEET 1	EC NO: UCP2009-2408 DRWN:BARKER 2009/04/20 CHKD:MORGAN 2009/04/20 APPR:SKILLER 2009/04/21	DESCRIPTION REV	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 JJS	DATE 99/08/16	TITLE SALES ASSEMBLY, 1 MM 84 CKT, BTB PLUG 2.30 MM STACK HEIGHT MOLEX INCORPORATED		
				4 PLACES ± --- ± ---	CHECKED BY PAR	DATE 99/08/16					
				3 PLACES ± --- ± ---	APPROVED BY DJB	DATE 99/08/16					
				2 PLACES ± 0.18 ± ---	ANGULAR ±1/2°		MATERIAL NO.	DOCUMENT NO.			SHEET NO.
				1 PLACE ± 0.33 ± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE				SDA-71741-2***
				SIZE C		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***	2.30/.091	71741-2***



METRIC

REVISE ONLY ON CAD SYSTEM

UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR ± 1/2°	
INCH	METRIC
3 PLACE ± ---- ± ----	----
2 PLACE ± ---- ± ----	± ----
1 PLACE ---- ± ----	± ----

DRAFT WHERE APPLICABLE MUST
REMAIN WITHIN DIMENSIONS

DRWG. BY JJS	CHK'D BY DJB
APP'D BY DJB	SCALE NGNE

TITLE SALES ASSY, 1.0mm 84 CKT. BOARD-TO-BOARD PLUG 2.30/.091 STACK HEIGHT		SHEET NO. 2	DATE 99/08/13
MOLEX INCORPORATED L15LEJLL. 60532 U.S.A.		PART NO. SEE SHT 1	DRWG. NO. SDA-71741-2***
FILE NAME S71741.D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	DIV. CPPI

LTR.	REVISIONS	LTR.	REVISIONS
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