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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)
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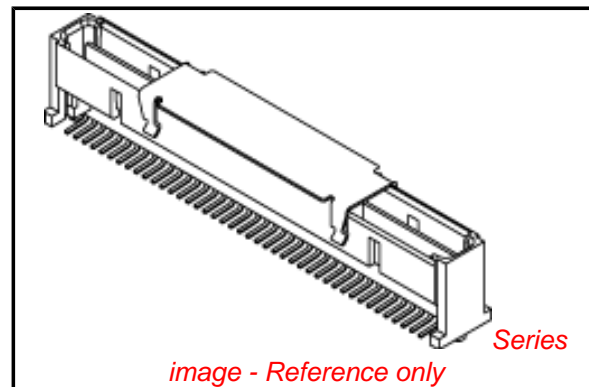


image - Reference only

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

Process Temperature max. C

260

Material Info

Reference - Drawing Numbers

Product Specification

PS-71741-9999

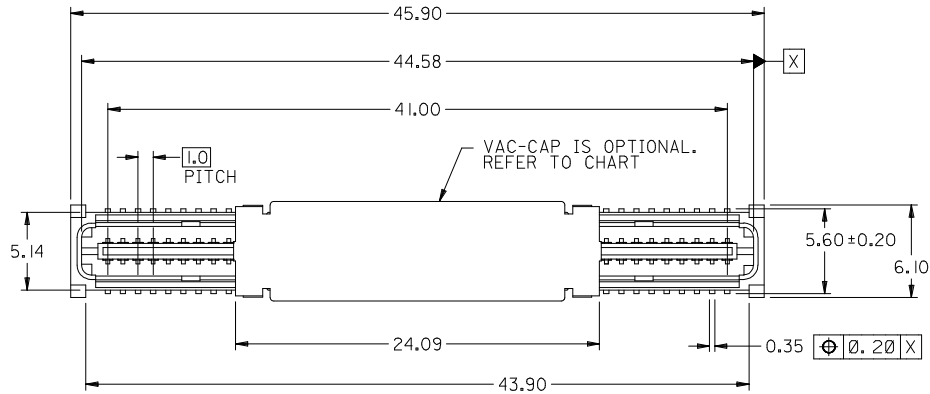
Sales Drawing

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

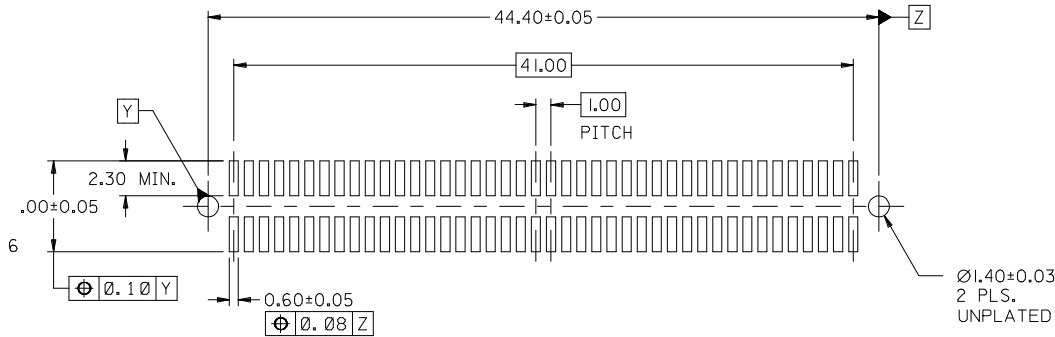
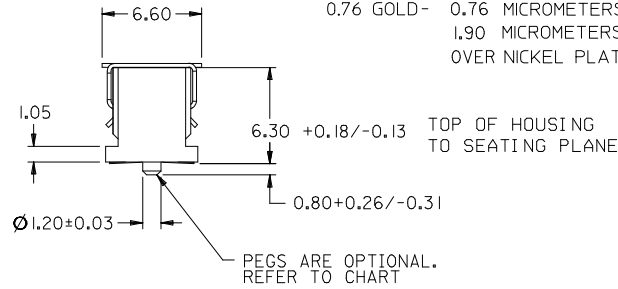
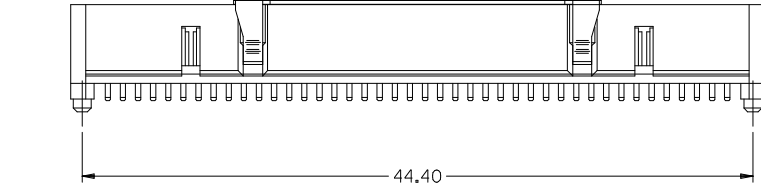


NOTES:

- 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.

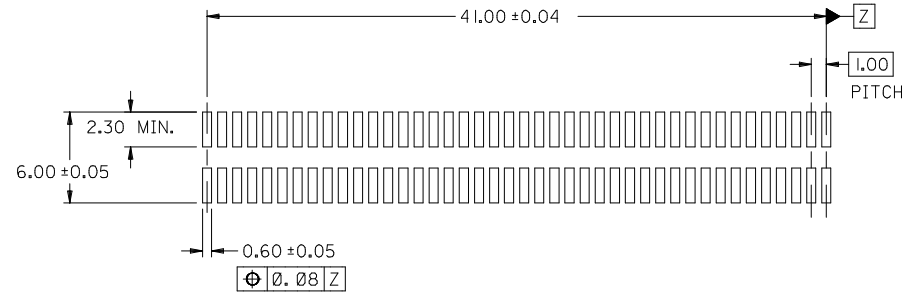
PLATING CODE:

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.



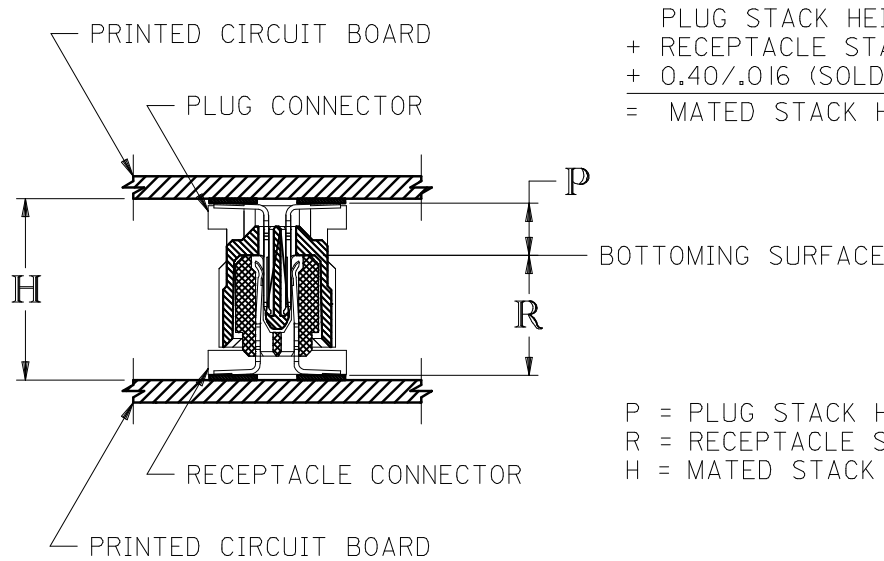
RECOMMENDED PCB LAYOUT (WITHOUT PEGS)

RECOMMENDED PCB THICKNESS: 1.0±0.1mm MIN.

CLARIFY DIMENSIONS 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 MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± ---	± ---	mm	INCH	DRAWN BY JJS	DATE 99/08/16	TITLE SALES ASSEMBLY, 1 MM 84 CKT, BTB PLUG 2.30 MM STACK HEIGHT		
		3 PLACES ± ---	± ---			CHECKED BY PAR	DATE 99/08/16	MOLEX INCORPORATED		
		2 PLACES ± 0.18	± ---			APPROVED BY DJB	DATE 99/08/16	DOCUMENT NO. SDA-71741-2***		
		1 PLACE ± 0.33	± ---	ANGULAR ±1/2°		MATERIAL NO. SEE TABLE		SHEET NO. 1 OF 2		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				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***		



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

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 MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY JJS	DATE 99/08/16	SALES ASSEMBLY, 1 MM 84 CKT, BTB PLUG 2.30 MM STACK HEIGHT			
		4 PLACES	± ---	± ---	CHECKED BY PAR	DATE 99/08/16				
		3 PLACES	± ---	± ---	APPROVED BY DJB		DATE 99/08/16	MOLEX INCORPORATED SDA-71741-2***		
2 PLACES	± 0.18	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO.	SHEET NO. 2 OF 2				
1 PLACE	± 0.33	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
		ANGULAR	± 1/2°							

