

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

**Part Number:** [0717422001](#)  
**Status:** **Active**  
**Description:** 1.00mm (.039") Pitch Mezzanine Receptacle, Surface Mount, Dual Row, Vertical Stacking, 84 Circuits, 0.25µm (10µ") Gold Plating, Tape and Reel Packaging

**Documents:**

[3D Model](#) [Product Specification PS-71741-9999 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family PCB Receptacles  
 Series [71742](#)  
 Application Board-to-Board  
 Product Name Mezzanine

**Physical**

Circuits (Loaded) 84  
 Color - Resin Natural  
 Glow-Wire Compliant No  
 Lock to Mating Part Yes  
 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  
 PCB Thickness Recommended (in) 0.040 In  
 PCB Thickness Recommended (mm) 1.00 mm  
 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  
 Polarized to PCB No  
 Robotic Placement Pick and Place Cap  
 Surface Mount Compatible (SMC) N/A  
 Temperature Range - Operating -55°C to +85°C  
 Termination Interface: Style Surface Mount

**Electrical**

Current - Maximum per Contact 1A  
 Voltage - Maximum 100V

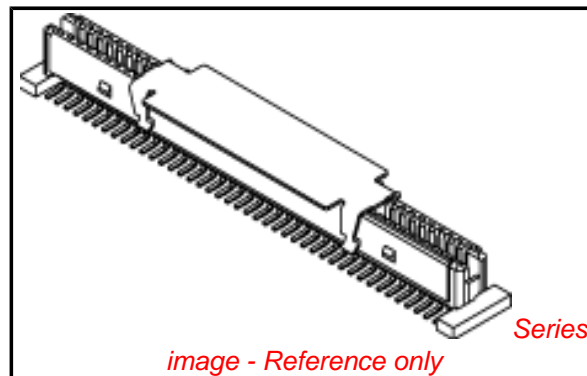
**Solder Process Data**

Duration at Max. Process Temperature (seconds) 40  
 Lead-free Process Capability Reflow Capable (SMT only)  
 Max. Cycles at Max. Process Temperature 3  
 Process Temperature max. C 260

**Material Info**

**Reference - Drawing Numbers**

Product Specification PS-71741-9999



**EU RoHS**

**ELV and RoHS Compliant**

**REACH SVHC**

**Contains SVHC: No**

**Halogen-Free**

**Status**

**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.

**China RoHS**



**Search Parts in this Series**

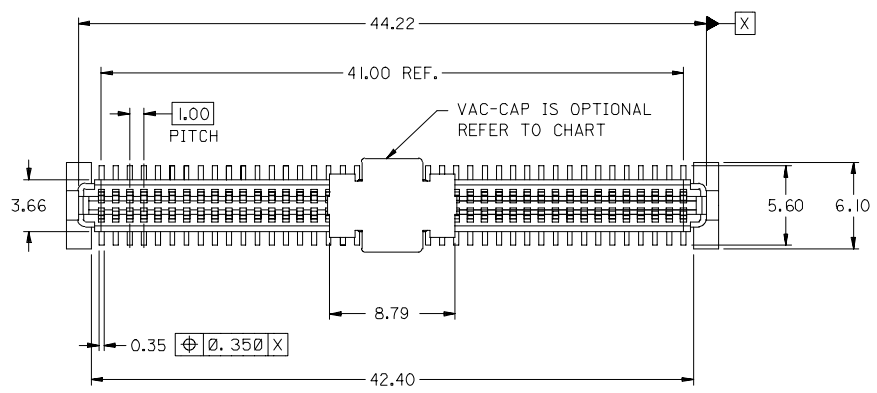
[71742Series](#)

**Mates With**

[717410](#) for Stack Height 12mm

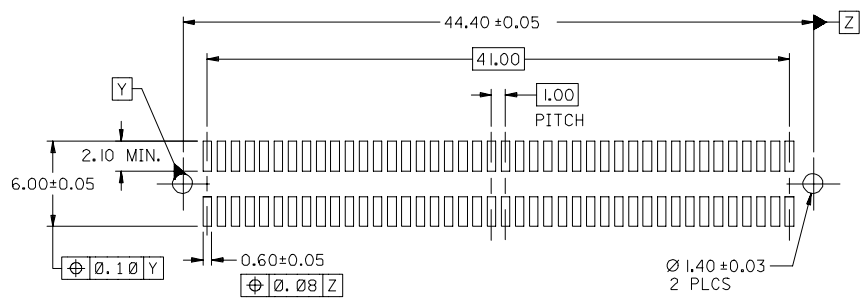
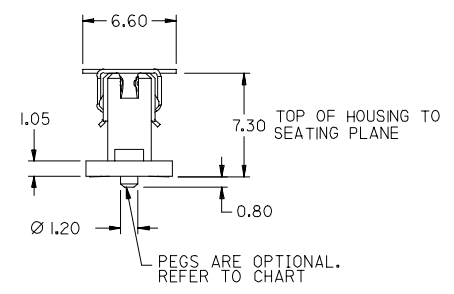
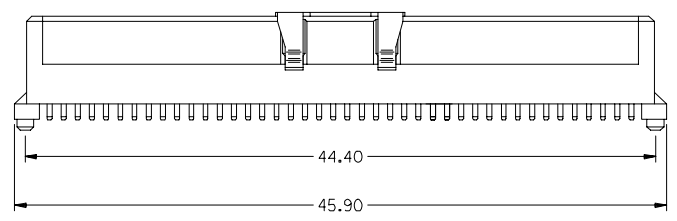
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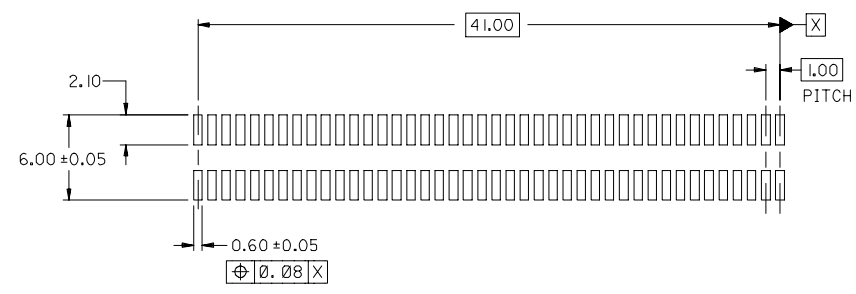
**NOTES:**

- HOUSING MATERIAL: G.F. THERMOPLASTIC; UL RATING: 94V-0; COLOR: WHITE. TERMINAL MATERIAL: PHOSPHOR BRONZE. VACUUM CAP MATERIAL: STAINLESS STEEL.
- CONTACT FINISH: SEE CHART FOR THICKNESS OF GOLD PLATING IN CONTACT AREA, 1.90 MICROMETER MINIMUM TIN PLATING IN SOLDER TAIL AREA, OVER NICKEL PLATING OVERALL.
- THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-71741-9999.
- PACKAGING: REFER TO CHART.



**RECOMMENDED PCB LAYOUT — WITH PEGS**

RECOMMENDED PCB THICKNESS: 1.0±0.1mm MINIMUM



**RECOMMENDED PCB LAYOUT — WITHOUT PEGS**

RECOMMENDED PCB THICKNESS: 1.0±0.1mm MINIMUM

2	A
1	B
SHT	REV

71742-2004	0.76 (30 MICROINCH)	YES	NO	PK-70873-0601	TUBES
71742-2003	0.76 (30 MICROINCH)	YES	YES	PK-70873-063	TAPE & REEL
71742-2002	0.25 (10 MICROINCH)	YES	NO	PK-70873-0601	TUBES
71742-2001	0.25 (10 MICROINCH)	YES	YES	PK-70873-063	TAPE & REEL

ITEM NUMBER	CONTACT AREA PLATING THICKNESS IN MICROMETERS (SEE NOTES FOR OTHER PLATINGS)	PEGS	PICK & PLACE CAP	PACKAGING SPEC. NUMBER	PACKAGING TYPE
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ADD -2003 & -2004  
 EC NO: UICP2007-1510  
 DRAWN BY: BBARKER 2007/01/04  
 CHECKED BY: CHIKO MIBARRA 2007/01/04  
 APPR: SMILLER 2007/01/05  
 REV: DESCRIPTION

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
▽=0 ▽=0	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± --- ± --- ANGULAR ±1/2°	MM ONLY	4:1	METRIC	THIRD ANGLE PROJECTION

DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
BBARKER	2005/11/16	BSMART	2005/11/16	SMILLER	2005/11/16

SALES ASSY, 1.0MM 84 CKT BOARD-TO-BOARD RECP. 7.30/.406 HIGH

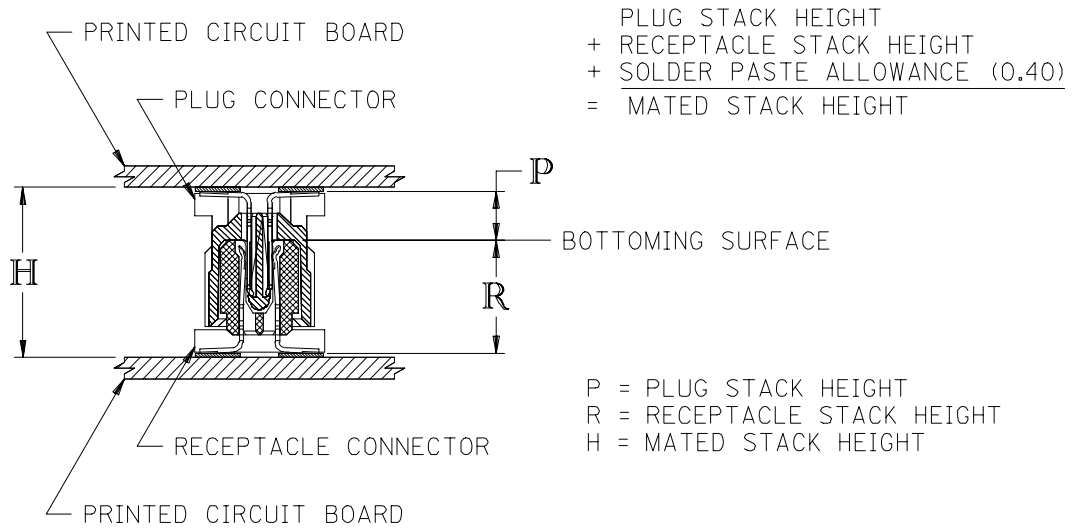
**MOLEX INCORPORATED**

DOCUMENT NO. SD-71742-002 SHEET NO. 1 OF 2

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RECOMMENDED PLUG/RECEPTACLE COMBINATION FOR  
MATED STACK HEIGHT PER EIA STANDARD 700 AAAB

MATED STACK HEIGHT	RECEPTACLE		PLUG		
	STACK HEIGHT	SERIES NUMBER	OVERALL HEIGHT	STACK HEIGHT	SERIES NUMBER
12.00	7.30	71742-2***	8.30	4.30	71741-0***
10.00			6.30	2.30	71741-2***



INITIAL RELEASE FC NO: UCP2006-1296 DRAWN BY: BBARKER 2006/01/30 CHKD: MBARRA 2006/02/03 APPR: SMILLER 2006/02/06	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.25 ± ---	1 PLACE ± --- ± ---	ANGULAR ±1/2°	DRAWN BY BBARKER	DATE 2005/11/16	CHECKED BY BSMART	DATE 2005/11/16
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE	APPROVED BY SMILLER	DATE 2005/11/16	MATERIAL NO. SD-71742-002	SHEET NO. 2 OF 2
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

SALES ASSY, 1.0MM 84 CKT BOARD-TO-BOARD RECEPT. 7.30/.406 HIGH

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