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**Part Number:** [0714390864](#)  
**Status:** **Active**  
**Description:** 1.00mm (.039") Pitch Mezzanine IEEE 1386 Receptacle, Surface Mount, Dual Row, Vertical Stacking, Embossed Tape on Reel, 0.76µm (30µ") Gold (Au), 64 Circuits Pick and Place Cap

**Documents:**  
[3D Model](#) [Product Specification PS-71436-9999 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family PCB Receptacles  
Series [71439](#)  
Application Board-to-Board  
Comments Plugs  
Product Name Mezzanine

**Physical**

Circuits (Loaded) 64  
Color - Resin Natural  
Flammability 94V-0  
Glow-Wire Compliant No  
Lock to Mating Part Yes  
Mated Height (in) 0.315 In, 0.354 In, 0.394 In  
Mated Height (mm) 10.00 mm, 8.00 mm, 9.00 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  
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)

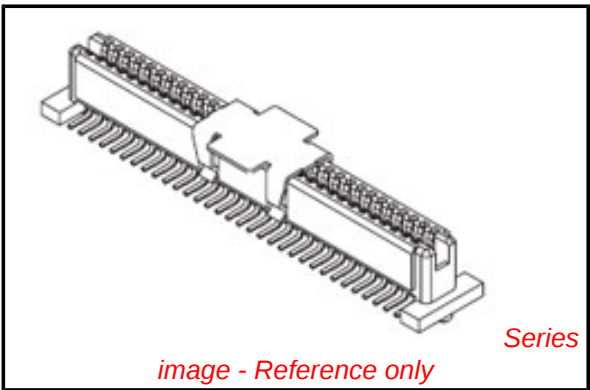


image - Reference only

**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](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**  
[71439Series](#)

**Mates With**  
[714360](#) for Stack Height 8.00mm (.315"),  
[714361](#) for Stack Height 9.00mm (.354"),  
[714362](#) for Stack Height 10.00mm (.394")

|                                         |     |
|-----------------------------------------|-----|
| Max. Cycles at Max. Process Temperature | 3   |
| Process Temperature max. C              | 260 |

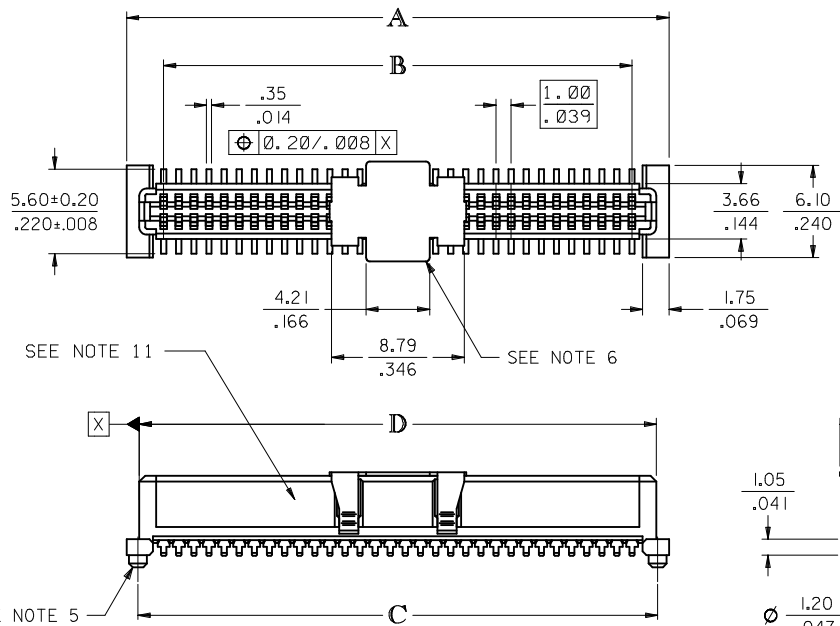
**Material Info**

**Reference - Drawing Numbers**

|                       |                                             |
|-----------------------|---------------------------------------------|
| Product Specification | PS-71436-9999, RPS-71436-002, RPS-71436-003 |
| Sales Drawing         | SDA-71439-0***                              |

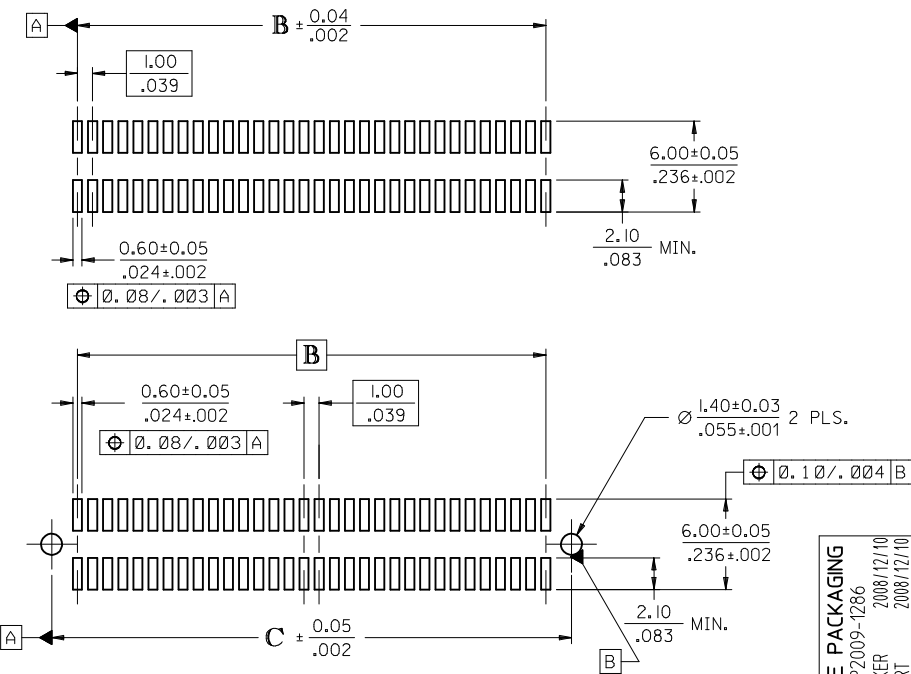
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NOTES:

- HOUSING MATERIAL: GLASS FILLED LIQUID CRYSTAL POLYMER (LCP); UL 94V-0; SEE SHEET 2 FOR COLOR.  
TERMINAL MATERIAL: PHOSPHOR BRONZE; 0.205/-.0080 THICK  
VACUUM CAP MATERIAL: STAINLESS STEEL; 0.255/-.0100 THICK
- CONTACT PLATING FINISH: REFER TO CHART ON SHEET 2
- THIS PART, WHEN MATED WITH MOLEX 1.0mm PLUG CONNECTOR SERIES 71439, CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-71436-9999. REFER TO CHART ON SHEET 2 FOR MATED STACK HEIGHTS FOR THIS RECEPTACLE.
- PACKAGING SPECIFICATIONS: REFER TO CHART ON SHEET 2.
- PEGS ARE OPTIONAL. REFER TO CHART ON SHEET 2.
- VACUUM PICK & PLACE CAP IS OPTIONAL. REFER TO CHART ON SHEET 2.
- THIS PART CONFORMS TO EIA STANDARD 700 AAAB FOR 1.0mm TWO-PART CONNECTORS FOR USE WITH PARALLEL PRINTED BOARDS.
- COPLANARITY OF SMT TAILS: 0.10 MM/-.004 INCH MAXIMUM
- 64-CIRCUIT RECEPTACLE ASSEMBLY WITH PEGS AND VACUUM CAP SHOWN FOR ILLUSTRATION PURPOSES ONLY.
- INCH DIMENSIONS SHOWN FOR REFERENCE ONLY.
- ASSEMBLY TO HAVE DATE CODE: XX XX  
WEEK \_\_\_\_\_ YEAR \_\_\_\_\_



RECOMMENDED PCB LAYOUT  
(WITH AND WITHOUT PEGS)

RECOMMENDED PCB THICKNESS: 1.00±0.10/-.039±.004

|                                                                                                                               |             |                                   |                                                            |        |                          |                   |                                                                                                                               |                                                                   |                                                                                                              |           |  |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|------------------------------------------------------------|--------|--------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------|--|
| CHG TUBE PACKAGING<br>EC NO: UCP2009-1286<br>Z<br>DRWN:BARKER 2008/12/10<br>CHKD:BSWART 2008/12/10<br>APPR:SMILLER 2008/12/10 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM/IN |                   | SCALE                                                                                                                         | DESIGN UNITS<br>INCH                                              |  THIRD ANGLE PROJECTION |           |  |
|                                                                                                                               |             |                                   |                                                            | mm     | INCH                     | DRAWN BY DATE     |                                                                                                                               | TITLE                                                             |                                                                                                              |           |  |
|                                                                                                                               |             |                                   | 4 PLACES                                                   | ± ---  | ± ---                    | REED 1995/04/03   |                                                                                                                               | ASSY MFG. 1.0MM BOARD TO BOARD RECEPT CONNECTOR<br>5.30/.209 HIGH |                                                                                                              |           |  |
|                                                                                                                               |             |                                   | 3 PLACES                                                   | ± ---  | ± .005                   | CHECKED BY DATE   |                                                                                                                               |                                                                   |                                                                                                              |           |  |
|                                                                                                                               |             |                                   | 2 PLACES                                                   | ± 0.13 | ± .01                    | REED 1995/04/03   |                                                                                                                               |                                                                   |                                                                                                              |           |  |
|                                                                                                                               |             |                                   | 1 PLACE                                                    | ± 0.25 | ± ---                    | APPROVED BY DATE  |                                                                                                                               | molex MOLEX INCORPORATED                                          |                                                                                                              |           |  |
|                                                                                                                               |             |                                   | ANGULAR ±1/2°                                              |        |                          | BIXLER 1995/04/03 |                                                                                                                               |                                                                   |                                                                                                              |           |  |
|                                                                                                                               |             |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |                          | MATERIAL NO.      |                                                                                                                               | DOCUMENT NO.                                                      |                                                                                                              | SHEET NO. |  |
|                                                                                                                               |             |                                   |                                                            |        |                          | SEE TABLE         |                                                                                                                               | SDA-71439-0***                                                    |                                                                                                              | 1 OF 2    |  |
|                                                                                                                               |             |                                   |                                                            |        |                          | SIZE C            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                   |                                                                                                              |           |  |

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## WHITE (NATURAL) MATERIAL

| PART NUMBER | CIRCUIT SIZE | CONTACT PLATING<br>SEE NOTE BELOW CHARTS | PEGS | PICK & PLACE<br>CAP | PACKAGING SPEC.<br>NUMBER | PACKAGING<br>TYPE |
|-------------|--------------|------------------------------------------|------|---------------------|---------------------------|-------------------|
| 71439-0164  | 64           | 30 GOLD                                  | YES  | NO                  | PK-70873-013              | TUBE              |
| 71439-0264  | 64           | 50 GOLD                                  | NO   | YES                 | PK-70873-063              | TAPE & REEL       |
| 71439-0364  | 64           | 30 GOLD                                  | YES  | YES                 | PK-70873-014              | TUBE              |
| 71439-0464  | 64           | 30 GOLD                                  | YES  | YES                 | PK-70873-063              | TAPE & REEL       |
| 71439-0564  | 64           | 30 GOLD                                  | NO   | NO                  | PK-70873-015              | TUBE              |
| 71439-0764  | 64           | 30 GOLD                                  | NO   | YES                 | PK-70873-017              | TUBE              |
| 71439-0864  | 64           | 30 GOLD                                  | NO   | YES                 | PK-70873-063              | TAPE & REEL       |
| 71439-0664  | 64           | 50 GOLD                                  | YES  | NO                  | PK-70873-013              | TUBE              |
| 71439-0064  | 64           | 50 GOLD                                  | NO   | NO                  | PK-70873-015              | TUBE              |

## BLACK MATERIAL

| PART NUMBER | CIRCUIT SIZE | CONTACT PLATING<br>SEE NOTE BELOW CHARTS | PEGS | PICK & PLACE<br>CAP | PACKAGING SPEC.<br>NUMBER | PACKAGING<br>TYPE |
|-------------|--------------|------------------------------------------|------|---------------------|---------------------------|-------------------|
| 71439-0964  | 64           | 30 GOLD                                  | NO   | YES                 | PK-70873-063              | TAPE & REEL       |
|             |              |                                          |      |                     |                           |                   |

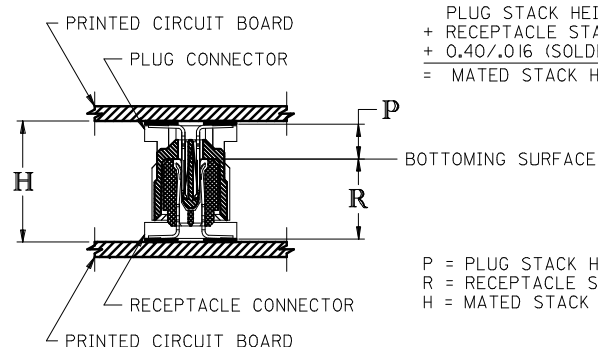
## CONTACT PLATING:

30 GOLD - 0.76 MICROMETER/30 MICROINCH MINIMUM GOLD IN CONTACT AREA AND  
1.91 MICROMETER/75 MICROINCH MINIMUM TIN IN SOLDER  
TAIL AREA. NICKEL UNDERPLATE OVER ENTIRE TERMINAL.

50 GOLD - 1.27 MICROMETER/50 MICROINCH MINIMUM GOLD IN CONTACT AREA AND  
1.91 MICROMETER/75 MICROINCH MINIMUM TIN IN SOLDER  
TAIL AREA. NICKEL UNDERPLATE OVER ENTIRE TERMINAL.

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

| MATED STACK<br>HEIGHT | RECEPTACLE<br>HEIGHT | RECEPTACLE<br>SERIES NO. | PLUG HEIGHT | PLUG SERIES<br>NO. |
|-----------------------|----------------------|--------------------------|-------------|--------------------|
| 8.00/.315             | 5.30/.209            | 71439-0***               | 2.30/.090   | 71436-0***         |
| 9.00/.354             | 5.30/.209            | 71439-0***               | 3.30/.130   | 71436-1***         |
| 10.00/.394            | 5.30/.209            | 71439-0***               | 4.30/.169   | 71436-2***         |



PLUG STACK HEIGHT  
+ RECEPTACLE STACK HEIGHT  
+ 0.40/.016 (SOLDER PASTE ALLOWANCE)  
= MATED STACK HEIGHT

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

CHG TUBE PACKAGING  
EC NO: UCP2009-1286  
DRWN:BBARKER 2008/12/10  
CHKD:BSMART 2008/12/10  
APPR:SMILLER 2008/12/10  
REV N

QUALITY  
SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|          | mm     | INCH   |
|----------|--------|--------|
| 4 PLACES | ± .--- | ± .--- |
| 3 PLACES | ± .--- | ± .005 |
| 2 PLACES | ± 0.13 | ± .01  |
| 1 PLACE  | ± 0.25 | ± .--- |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM/IN

| DRAWN BY    | DATE       |
|-------------|------------|
| REED        | 1995/04/03 |
| CHECKED BY  | DATE       |
| REED        | 1995/04/03 |
| APPROVED BY | DATE       |
| BIXLER      | 1995/04/03 |

MATERIAL NO.  
SEE TABLE

SIZE  
C

SCALE  
DESIGN UNITS  
INCH

THIRD ANGLE  
PROJECTION

TITLE  
ASSY MFG, 1.0MM BOARD TO  
BOARD RECEPT CONNECTOR  
5.30/.209 HIGH

MOLEX MOLEX INCORPORATED

DOCUMENT NO.  
SDA-71439-0\*\*\*

SHEET NO.  
2 OF 2

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