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**Part Number:** 0741395569

**Status:** Active

**Description:** 1.27mm (.050") Pitch EBBI™ 50D Plug, Surface Mount, Vertical, with Latch, 68 Circuits, 4.37mm (.172") Retention Clip



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
Product Specification PS-71660 (PDF)
RoHS Certificate of Compliance (PDF)

## General

| | |
|---|---|
| Product Family | PCB Headers |
| Series | 74139 |
| Application | Board-to-Board, Wire-to-Board |
| Product Name | EBBI™ |

## Physical

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 68 |
| Circuits (maximum) | 68 |
| Color - Resin | Black |
| Durability (mating cycles max) | 500 |
| Glow-Wire Compliant | No |
| Lock to Mating Part | Yes |
| Material - Metal | Brass, 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 | Yes |
| PCB Thickness Recommended (in) | 0.120 In |
| PCB Thickness Recommended (mm) | 3.00 mm |
| Packaging Type | Tray |
| Pitch - Mating Interface (in) | 0.050 In |
| Pitch - Mating Interface (mm) | 1.27 mm |
| Plating min: Mating (µin) | 30 |
| Plating min: Mating (µm) | 0.75 |
| Plating min: Termination (µin) | 50 |
| Plating min: Termination (µm) | 1.25 |
| Polarized to Mating Part | Yes |
| Shrouded | Fully |
| Stackable | No |
| Temperature Range - Operating | -40°C to +105°C |
| Termination Interface: Style | Through Hole |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 1A |
| Voltage - Maximum | 30V |

## 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

**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**
74139Series

**Mates With**
71660 , 87552

## Reference - Drawing Numbers

| | |
|---|---|
| Product Specification | PS-71660 |
| Sales Drawing | SD-74139-002 |

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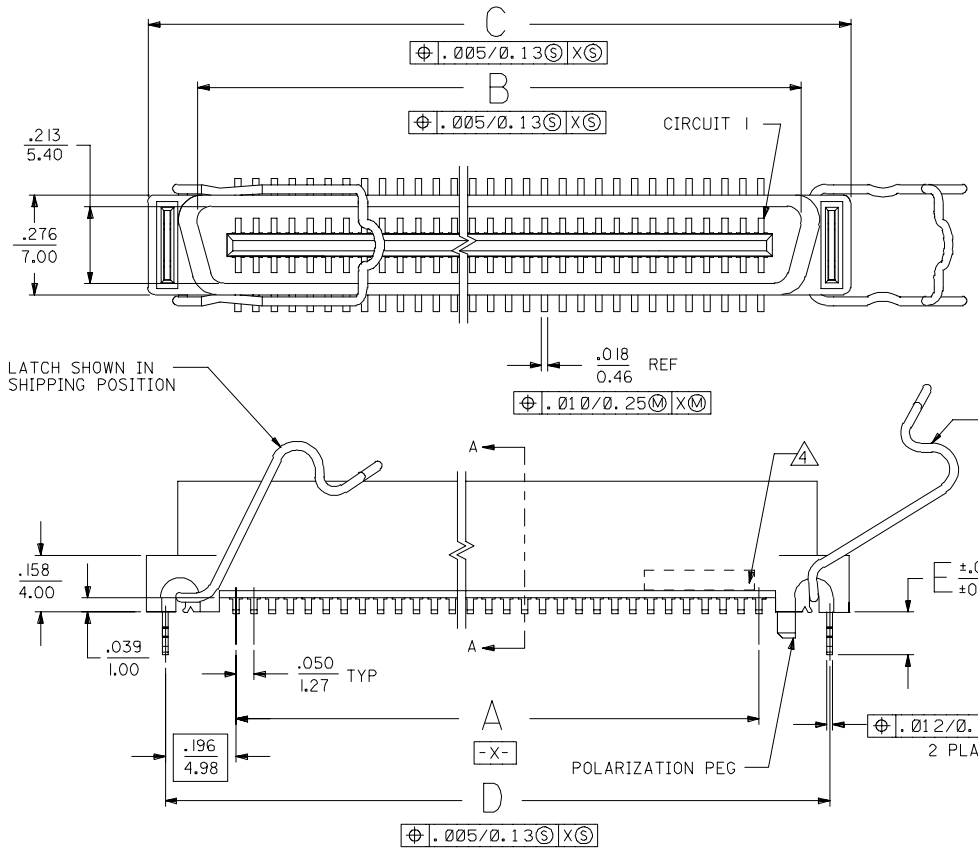
NOTES:

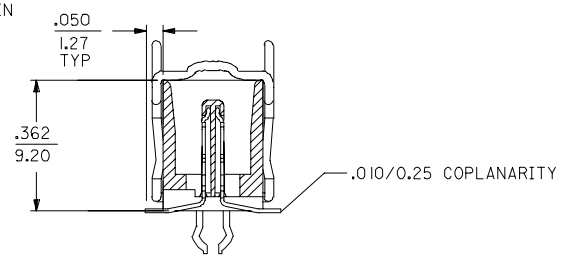
1) MATERIALS:
HOUSING: GLASS-FILLED LCP (LIQUID CRYSTAL POLYMER) UL 94 V 0, BLACK
TERMINALS: BRASS
BOARD LOCKS: PHOSPHOR BRONZE
METAL LATCHES: 302 STAINLESS STEEL.

2) FINISH:
TERMINALS:
.000030/(0.00076) MINIMUM GOLD IN CONTACT AREA AND
.000050/(0.00127) MINIMUM TIN IN TAIL AREA OVER
.000075/(0.00191) MINIMUM NICKEL UNDERPLATING OVERALL.
BOARD LOCKS:
.000050/(0.00127) MINIMUM TIN

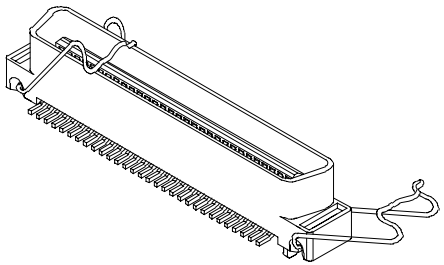
3) ASSEMBLY MATES WITH MOLEX P/N SDA-71660-****.
CONFORMS TO PRODUCT SPECIFICATION PS-71660.

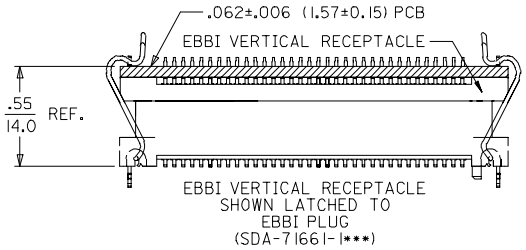
4 FOUR DIGIT DATE CODE (WK, YR), EXAMPLE => 26 96
LOCATED IN AREA INDICATED.

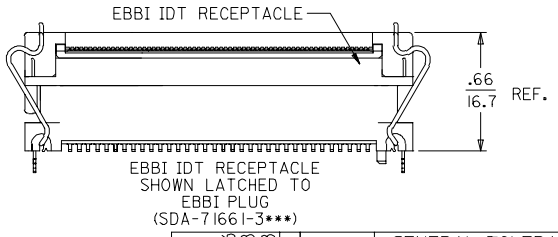



SECTION A-A
SCALE 4:1






REFERENCE APPLICATION VIEWS

| | |
|---|---|
| 2 | D |
| 1 | D |
| SHT | REV |

ADD -5540
EC NO: UCP2008-0028 2007/08/06
DRWN: BBARKER 2007/08/08
CHK'D:
APPR: SMILLER 2007/08/08
DESCRIPTION
REV
D

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

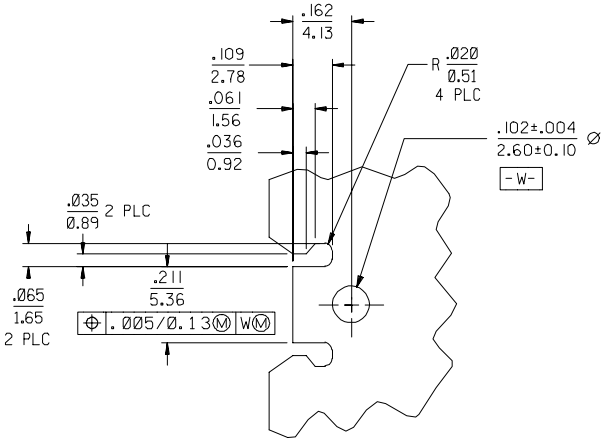
| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .005 |
| 2 PLACES | ± 0.13 | ± .01 |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

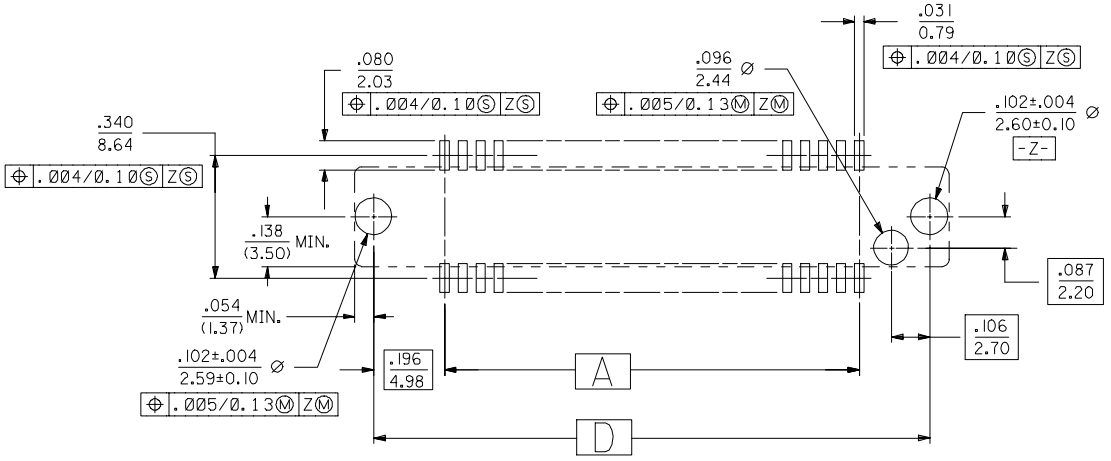
| | |
|---|---|
| DIMENSION STYLE | IN/MM |
| SCALE | 1:1 |
| DESIGN UNITS | INCH |
| | THIRD ANGLE PROJECTION |
| DRAWN BY | BSMART |
| DATE | 01/20/2005 |
| CHECKED BY | BBARKER |
| DATE | 01/20/2005 |
| APPROVED BY | SMILLER |
| DATE | 01/20/2005 |
| TITLE | SALES ASSY EBBI 50D VERT SMT PLUG-WITH LATCHES, NO VAC CAP |
| | MOLEX INCORPORATED |
| MATERIAL NO. | SEE TABLE |
| DOCUMENT NO. | SD-74139-002 |
| SHEET NO. | 1 OF 2 |
| SIZE | C |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| MATERIAL NUMBER | CKT | A | B | C | D | E | PCB THICKNESS | PACKAGING SPEC. |
|---|---|---|---|---|---|---|---|---|
| 74139-5530 | 30 | .700 (17.78) | .926 (23.52) | 1.199 (30.45) | 1.092 (27.74) | .118 (3.00) | .062 (1.57)±.006 (0.15) | PK-70873-055 |
| 74139-5540 | 40 | .950 (24.13) | 1.176 (29.87) | 1.449 (36.80) | 1.342 (34.09) | .118 (3.00) | .062 (1.57)±.006 (0.15) | PK-70873-055 |
| 74139-5660 | 60 | 1.450 (36.83) | 1.676 (42.57) | 1.949 (49.50) | 1.842 (46.79) | .118 (3.00) | .062 (1.57)±.006 (0.15) | PK-70873-055 |
| 74139-5568 | 68 | 1.650 (41.91) | 1.876 (47.65) | 2.149 (54.58) | 2.042 (51.88) | .118 (3.00) | .062 (1.57)±.006 (0.15) | PK-70873-055 |
| 74139-5569 | 68 | 1.650 (41.91) | 1.876 (47.65) | 2.149 (54.58) | 2.042 (51.88) | .172 (4.37) | .116 (2.95)±.006 (0.15) | PK-70873-055 |
| 74139-5600 | 100 | 2.450 (62.23) | 2.676 (67.97) | 2.949 (74.90) | 2.842 (72.19) | .118 (3.00) | .062 (1.57)±.006 (0.15) | PK-70873-055 |




DETAIL FOR RECEPTACLE PCB LATCHING




PCB LAYOUT: COMPONENT SIDE
SEE TABLE FOR RECOMMENDED PCB THICKNESS

ADD -5540
EC NO: UCP2008-0028 2007/08/06
DRWN:BBARKER 2007/08/08
CHKD:SDANNELLEY 2007/08/08
APPR:SMILLER 2007/08/08
DESCRIPTION
REV
D

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: IN/MM
SCALE: 4:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

| | | |
|---|---|---|
| DRAWN BY | BSMART | DATE 01/20/2005 |
| CHECKED BY | BBARKER | DATE 01/20/2005 |
| APPROVED BY | SMILLER | DATE 01/20/2005 |

TITLE: SALES ASSY EBBI 50D VERT SMT PLUG-WITH LATCHES, NO VAC CAP

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-74139-002
SHEET NO.: 2 OF 2

SIZE C

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