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**Part Number:** [0716617100](#)  
**Status:** **Active**  
**Overview:** [ebbi\\_50d](#)  
**Description:** 1.27mm (.050") Pitch EBBI™ 50D Plug, Vertical, Blind Mate, 100 Circuits, 2.79mm (.110") PC Tail Length

**Documents:**

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-71660 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a> |

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                               |
|----------------|-------------------------------|
| Product Family | PCB Headers                   |
| Series         | <a href="#">71661</a>         |
| Application    | Board-to-Board, Wire-to-Board |
| Overview       | <a href="#">ebbi_50d</a>      |
| Product Name   | EBBI™                         |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 100                            |
| Circuits (maximum)             | 100                            |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 2,000                          |
| First Mate / Last Break        | No                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | No                             |
| Guide to Mating Part           | Yes                            |
| Keying to Mating Part          | None                           |
| Lock to Mating Part            | None                           |
| Material - Metal               | Copper Alloy                   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 2                              |
| Orientation                    | Vertical                       |
| PC Tail Length (in)            | 0.110 In                       |
| PC Tail Length (mm)            | 2.79 mm                        |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.062 In                       |
| PCB Thickness Recommended (mm) | 1.60 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)       | 0.76                           |
| Plating min: Termination (µin) | 75                             |
| Plating min: Termination (µm)  | 1.91                           |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |



Series

image - Reference only

**EU RoHS**

**ELV and RoHS  
Compliant**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Not Reviewed**

**China RoHS**



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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**

[71661Series](#)

**Mates With**

EBBI™ 50D Receptacle [71660](#)

|                                    |                              |
|------------------------------------|------------------------------|
| Surface Mount Compatible (SMC)     | No                           |
| Temperature Range - Operating      | -40°C to +105°C              |
| Termination Interface: Style       | Through Hole                 |
| <b>Electrical</b>                  |                              |
| Current - Maximum per Contact      | 1A                           |
| Voltage - Maximum                  | 30V                          |
| <b>Solder Process Data</b>         |                              |
| Lead-free Process Capability       | SMC & Wave Capable (TH only) |
| Process Temperature max. C         | 260                          |
| <b>Material Info</b>               |                              |
| <b>Reference - Drawing Numbers</b> |                              |
| Packaging Specification            | PK-71660                     |
| Product Specification              | PS-71660                     |
| Sales Drawing                      | SDA-71661-7***               |

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|                                                                                             |        |                                                                                                                           |  |                                                                                                      |  |     |
|---------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------|--|-----|
| DIMENSIONS SHOWN: (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR = 1/2° |        | $\nabla = 0$ $\blacktriangledown = 0$ REVISE ONLY ON CAD SYSTEM                                                           |  | TITLE                                                                                                |  |     |
| INCH      METRIC                                                                            |        | SALES ASSEMBLY<br>EBBI 50D, VERTICAL PLUG<br>BLIND MATE CONNECTOR                                                         |  |                                                                                                      |  |     |
| 3 PLACE                                                                                     | ± .005 |                                                                                                                           |  |                                                                                                      |  | --- |
| 2 PLACE                                                                                     | ± .01  |                                                                                                                           |  |                                                                                                      |  | ±   |
| 1 PLACE                                                                                     | ---    |                                                                                                                           |  |                                                                                                      |  | ±   |
| DRAFT HEREIN APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                    |        |                                                                                                                           |  | MOLEX INCORPORATED    SHEET NO.    DATE<br>LITTLE ROCK, AR 68132    U.S.A.    1 OF 2    11 / 17 / 93 |  |     |
| PART NO.      DWG. NO.                                                                      |        | SEE TABLE      SDA-71661-7 ***                                                                                            |  |                                                                                                      |  |     |
| FILE NAME<br>571661.X7                                                                      |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |  |                                                                                                      |  |     |
| DRWG. BY: <b>RAN</b><br>APP'D. BY: <b>CAB</b>                                               |        | CHK'D. BY: <b>RAN</b><br>SCALE: <b>4:1</b>                                                                                |  | DIV. <b>C</b> SIZE <b>C</b>                                                                          |  |     |

