

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

**Part Number:** [0741395080](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Pitch EBJ™ 50D Plug, Surface Mount, Vertical, 80 Circuits, 3.00mm (.118") Retention Clip

**Documents:**

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

**General**

Product Family PCB Headers  
 Series [74139](#)  
 Application Board-to-Board, Wire-to-Board  
 Product Name EBJ™

**Physical**

Breakaway No  
 Circuits (Loaded) 80  
 Circuits (maximum) 80  
 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) 0.062 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) 0.75  
 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

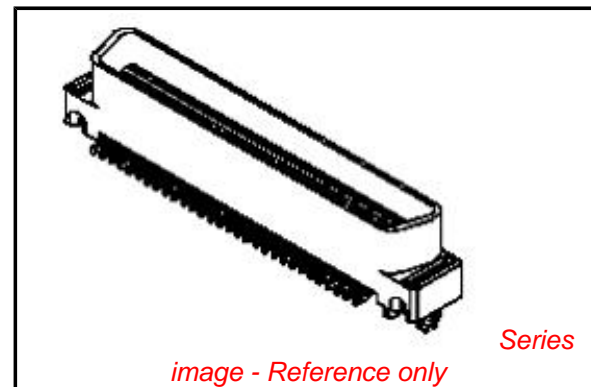
**Electrical**

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  
 Contains SVHC: No**  
**Halogen-Free  
 Status**

**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**

[74139Series](#)

**Mates With**

[71660](#) , [87552](#)

**Reference - Drawing Numbers**

Product Specification  
Sales Drawing

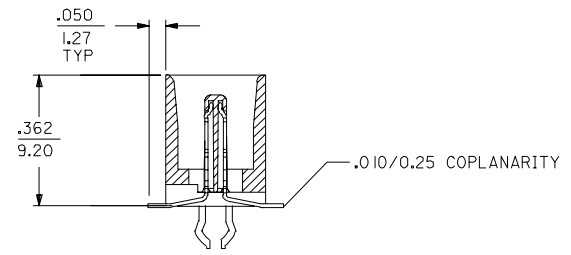
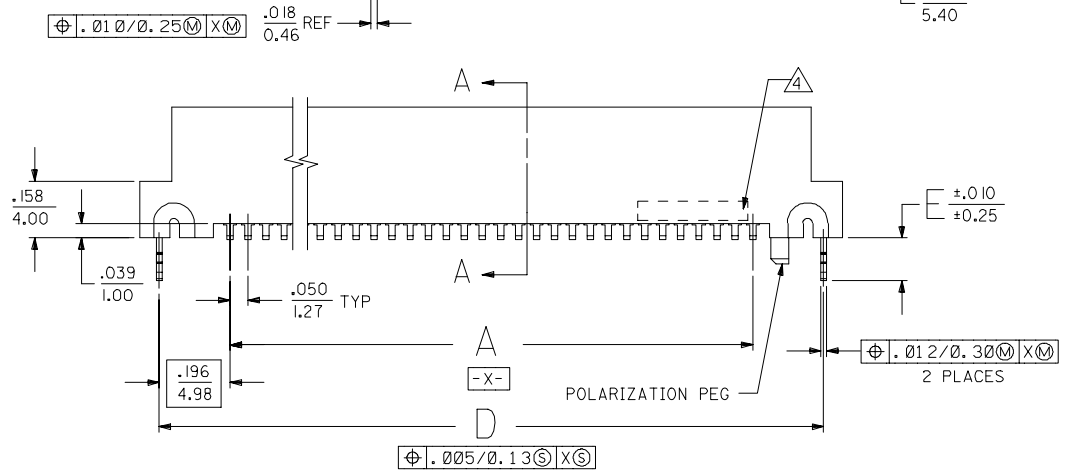
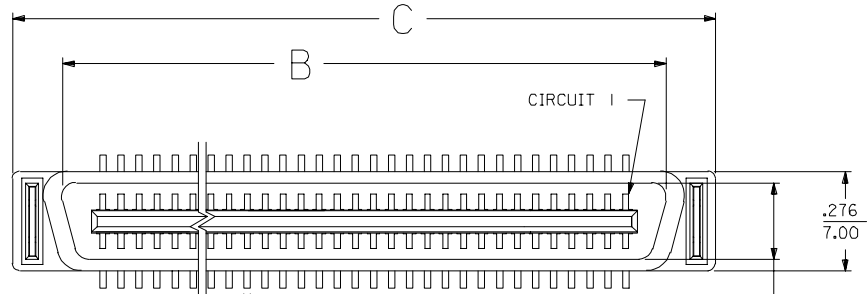
PS-71660  
SD-74139-001

This document was generated on 04/21/2010

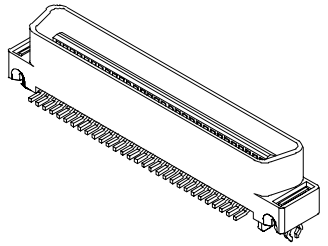
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NOTES:

- 1) MATERIALS:  
HOUSING: GLASS-FILLED LCP (LIQUID CRYSTAL POLYMER)  
UL 94 V 0, BLACK  
TERMINALS: BRASS  
BOARDLOCK: PHOSPHOR BRONZE
- 2) PLATING:  
.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.
- 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.
- 5) PACKAGED PER SPECIFICATION PK-70873-055.



SECTION A-A  
SCALE 4:1



60 CIRCUIT ASSEMBLY SHOWN  
SCALE = 2:1

FIX PCB LAYOUT GEOM EC NO: UCP2007-2252 DRAWN: BBARKER 2007/05/06 CHKD: MBARRA 2007/05/17 APPR: SMILLER 2007/05/21	DESCRIPTION QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
		4 PLACES ± .005	± .005	DRAWN BY BSMART	DATE 01/20/2005	TITLE SALES ASSY EBBI 50D VERT SMT PLUG-NO LATCHES, NO VAC CAP				
		3 PLACES ± .005	± .005	CHECKED BY BBARKER	DATE 01/20/2005	MATERIAL NO. MOLEX INCORPORATED				
		2 PLACES ± 0.13	± .01	APPROVED BY SMILLER	DATE 01/20/2005	DOCUMENT NO. SD-74139-001				
1 PLACE ± 0.25 ± .01 ANGULAR ±1/2°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SHEET NO. 1 OF 2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

