

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

**Part Number:** [0741395030](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Pitch EBJ™ 50D Plug, Surface Mount, Vertical, 30 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) 30  
 Circuits (maximum) 30  
 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

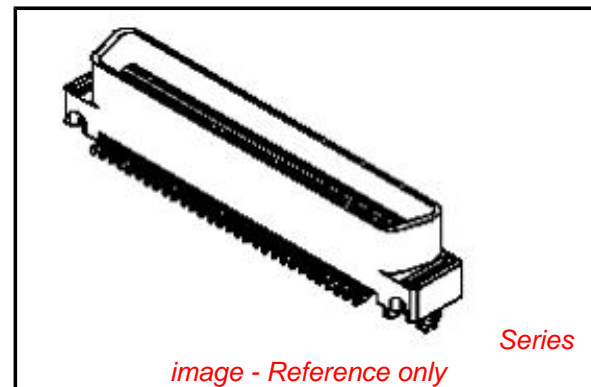
**Electrical**

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

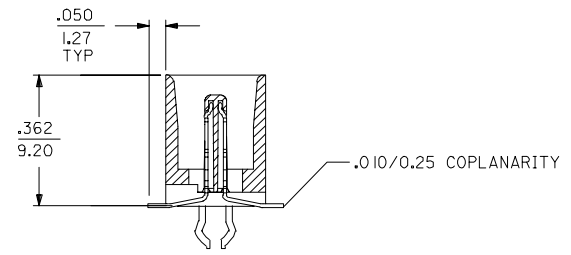
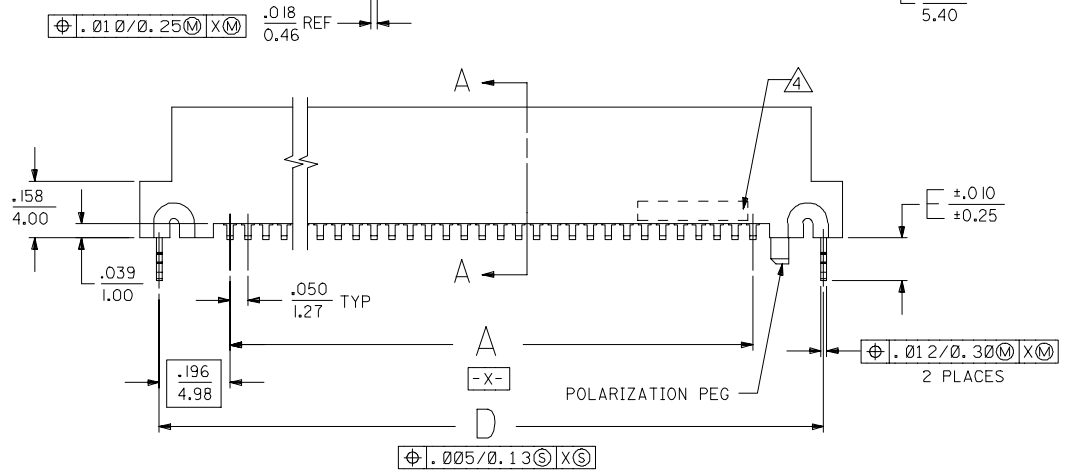
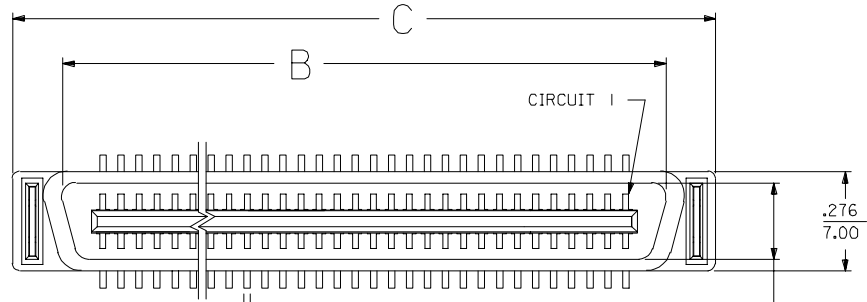
PS-71660  
SD-74139-001

This document was generated on 04/21/2010

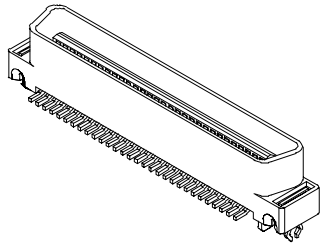
**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**

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.



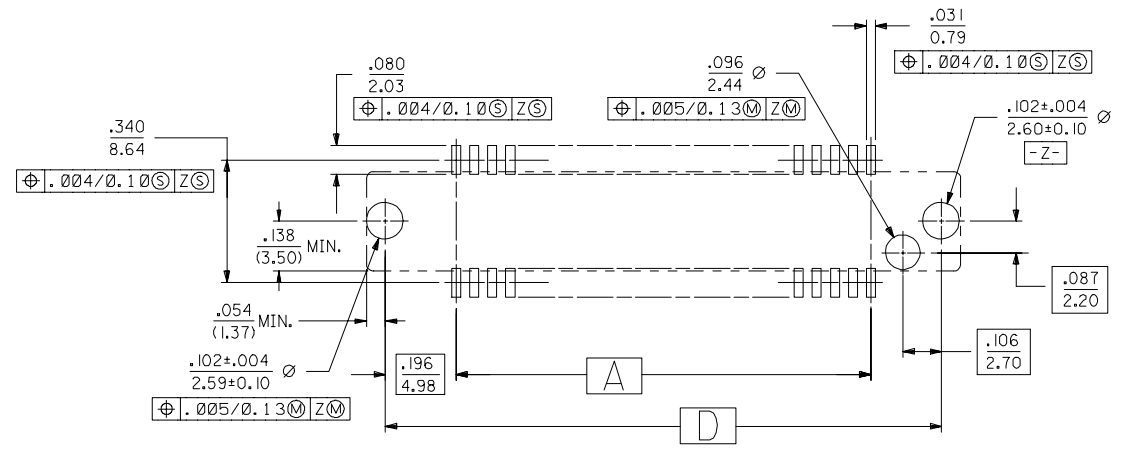
SECTION A-A  
SCALE 4:1



60 CIRCUIT ASSEMBLY SHOWN  
SCALE = 2:1

FIX PCB LAYOUT GEOM EC NO: UCP2007-2252 DRAWN BY: BARKER 2007/05/06 CHKD: MIBARRA 2007/05/17 APPR: SMILLER 2007/05/21 REV:	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± .005 ± .0005 3 PLACES ± .013 ± .01 2 PLACES ± 0.25 ± .01 1 PLACE ± 0.25 ± .01 ANGULAR ±1/2°	DIMENSION STYLE IN/MM DRAWN BY: BSMART DATE: 01/20/2005 CHECKED BY: BBARKER DATE: 01/20/2005 APPROVED BY: SMILLER DATE: 01/20/2005 MATERIAL NO.	SCALE 4:1 DESIGN UNITS INCH THIRD ANGLE PROJECTION	TITLE SALES ASSY EBBI 50D VERT SMT PLUG-NO LATCHES, NO VAC CAP
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE C SEE TABLE	MOLEX INCORPORATED DOCUMENT NO. SD-74139-001	SHEET NO. 1 OF 2
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

ITEM NUMBER	CIRCUIT SIZE	RECOMMENDED CIRCUIT BOARD THICKNESS	A	B	C	D	E
74139-5100	100	.062±.006 (1.57±0.15)	2.450 (62.23)	2.676 (67.97)	2.949 (74.90)	2.842 (72.19)	.118 (3.00)
74139-5080	80	.062±.006 (1.57±0.15)	1.950 (49.53)	2.176 (55.27)	2.449 (62.20)	2.342 (59.50)	.118 (3.00)
74139-5069	68	.116±.006 (2.95±0.15)	1.650 (41.91)	1.875 (47.65)	2.149 (54.58)	2.042 (51.88)	.172 (4.37)
74139-5068	68	.062±.006 (1.57±0.15)	1.650 (41.91)	1.875 (47.65)	2.149 (54.58)	2.042 (51.88)	.118 (3.00)
74139-5060	60	.062±.006 (1.57±0.15)	1.450 (36.83)	1.676 (42.57)	1.949 (49.50)	1.842 (46.80)	.118 (3.00)
74139-5050	50	.062±.006 (1.57±0.15)	1.200 (30.48)	1.426 (36.22)	1.699 (43.15)	1.592 (40.45)	.118 (3.00)
74139-5040	40	.062±.006 (1.57±0.15)	.950 (24.13)	1.176 (29.87)	1.449 (36.80)	1.342 (34.10)	.118 (3.00)
74139-5031	30	.116±.006 (2.95±0.15)	.700 (17.78)	.925 (23.52)	1.199 (30.45)	1.092 (27.75)	.172 (4.37)
74139-5030	30	.062±.006 (1.57±0.15)	.700 (17.78)	.925 (23.52)	1.199 (30.45)	1.092 (27.75)	.118 (3.00)



<b>CORRECT GEOMETRY</b> FCC NO: UICP2007-2252 DRAWN: BBARKER 2007/05/06 CHKD: MBARRA 2007/05/17 APPR: SMILLER 2007/05/21 REV	<b>QUALITY SYMBOLS</b> ▽=0 ▽=0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>		<b>DIMENSION STYLE</b> IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
		4 PLACES ± .005 ± .005	3 PLACES ± .013 ± .005	2 PLACES ± 0.25 ± .01	1 PLACE ± 0.25 ± .01	ANGULAR ±1/2°	DRAWN BY BSMART	DATE 01/20/2005	TITLE SALES ASSY EBBI 50D VERT SMT PLUG-NO LATCHES, NO VAC CAP		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					CHECKED BY BBARKER	DATE 01/20/2005	APPROVED BY SMILLER 01/20/2005		
		SEE TABLE					MATERIAL NO. SD-74139-001		DOCUMENT NO. 2 OF 2		SHEET NO. 2 OF 2