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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

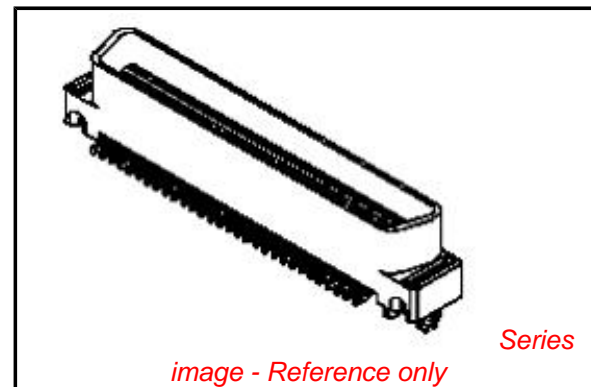
Electrical

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
 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

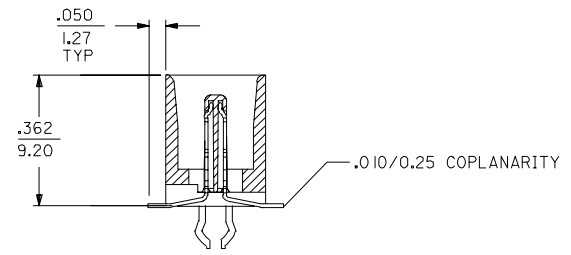
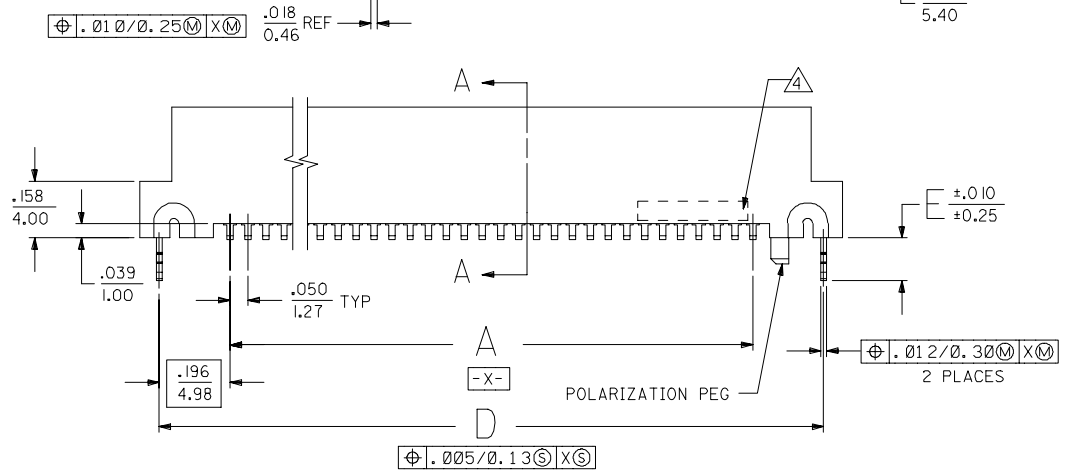
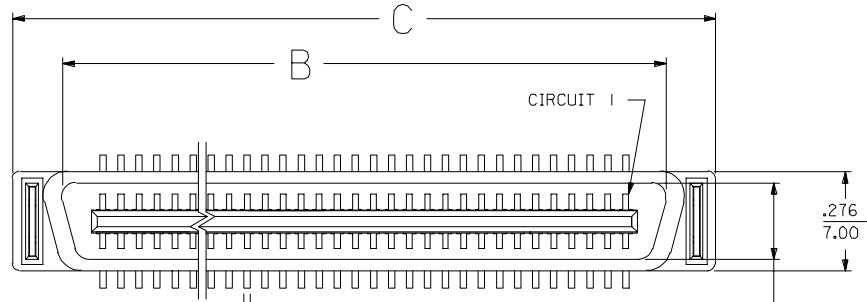
PS-71660
SD-74139-001

This document was generated on 04/21/2010

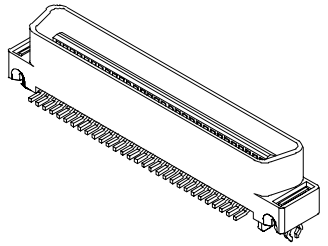
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NOTES:

- 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.



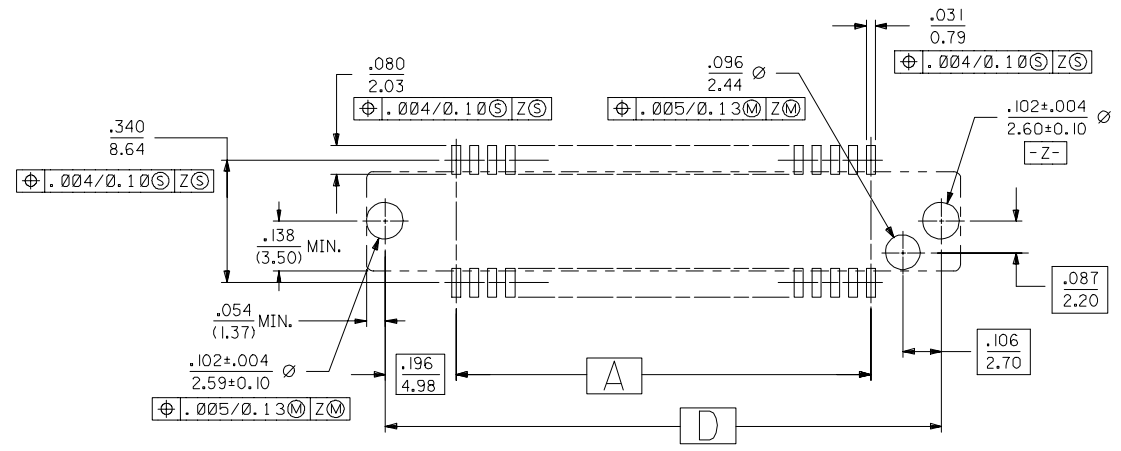
SECTION A-A
SCALE 4:1



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 REV:	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	=0 ∇=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± 0.13 ± .01 1 PLACE ± 0.25 ± --- ANGULAR ±1/2°	IN/MM	4:1	INCH	DRAWN BY DATE BSMART 01/20/2005 CHECKED BY DATE BBARKER 01/20/2005 APPROVED BY DATE SMILLER 01/20/2005
	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	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	SEE TABLE	SIZE C			

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)



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