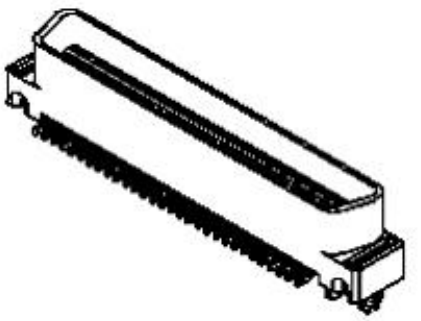
This document was generated on 04/21/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0741395080

Status: Active

Description: 1.27mm (.050") Pitch EBBI™ 50D Plug, Surface Mount, Vertical, 80 Circuits, 3.00mm (.118") 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)	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
Halogen-Free

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-74139-001

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NOTES:

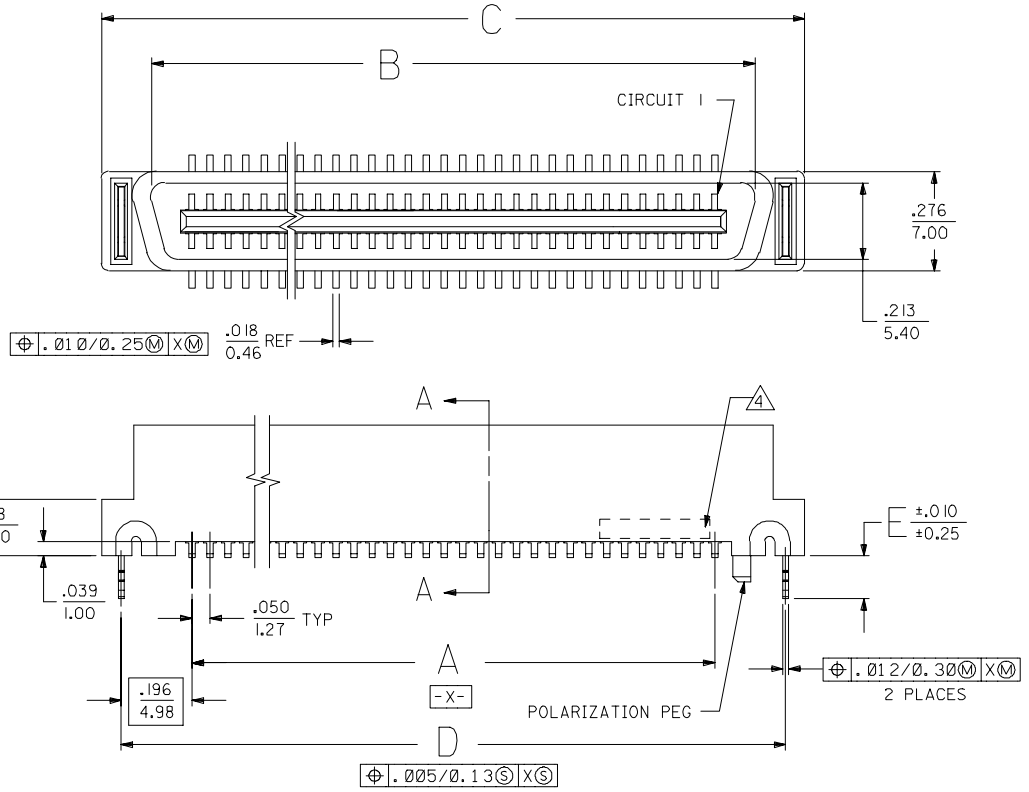
1) MATERIALS:
HOUSING: GLASS-FILLED LCP (LIQUID CRYSTAL POLYMER) UL 94 V 0, BLACK
TERMINALS: BRASS
BOARDLOCK: PHOSPHOR BRONZE

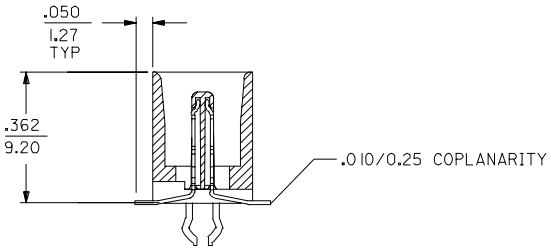
2) PLATING:
.000030/(0.00076) MINIMUM GOLD IN CONTACT AREA AND .000050/(0.00127) MINIMUM TIN IN TAIL AREA OVER .000075/(0.00191) MINIMUM NICKEL UNDERPLATING OVERALL.

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

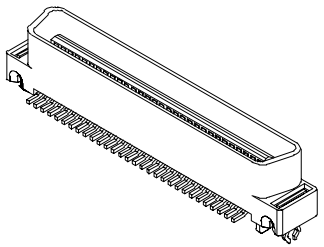
4 FOUR DIGIT DATE CODE (WK, YR), EXAMPLE => 26 96 LOCATED IN AREA INDICATED.

5) PACKAGED PER SPECIFICATION PK-70873-055.





SECTION A-A
SCALE 4:1



60 CIRCUIT ASSEMBLY SHOWN
SCALE = 2:1

FIX PCB LYOUT GEOM
EC NO: UCP2007-2252
DRWN:BBARKER 2007/05/06
CH'KD:MIBARRA 2007/05/17
APPR:SMILLER 2007/05/21
DESCRIPTION
REV
B

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

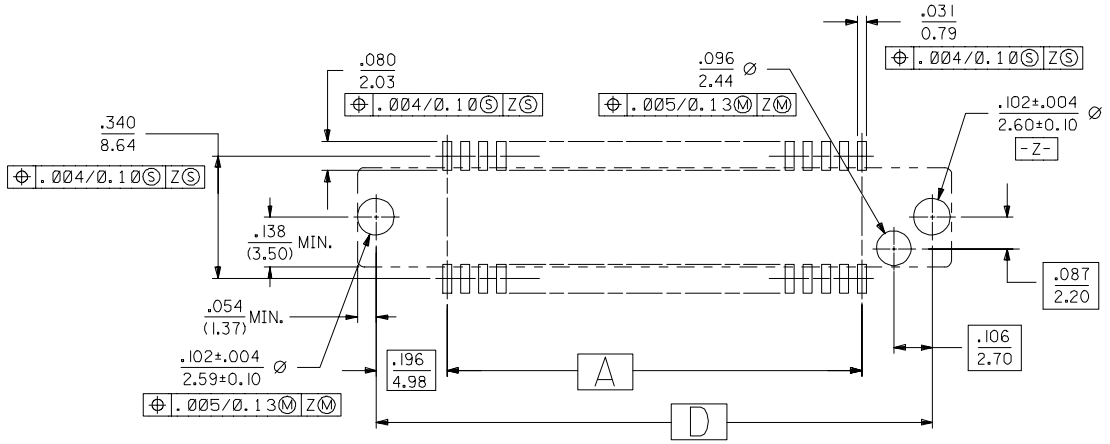
TITLE: SALES ASSY EBBI 50D VERT SMT PLUG-NO LATCHES, NO VAC CAP

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-74139-001
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

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
EC NO: UCP2007-2252
DRWN:BBARKER 2007/05/06
CH'KD:MIBARRA 2007/05/17
APPR:SMILLER 2007/05/21
DESCRIPTION
REV B

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-NO LATCHES, NO VAC CAP

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-74139-001
SHEET NO.: 2 OF 2
SIZE: C

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