

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0716617320

Status:

Active

Overview:

ebbi_50d

Description:

1.27mm (.050") Pitch EBBI™ 50D Plug, Vertical, Blind Mate, 120 Circuits, 3.40mm (.134") PC Tail Length

Documents:	
3D Model	Product Specification PS-71660 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

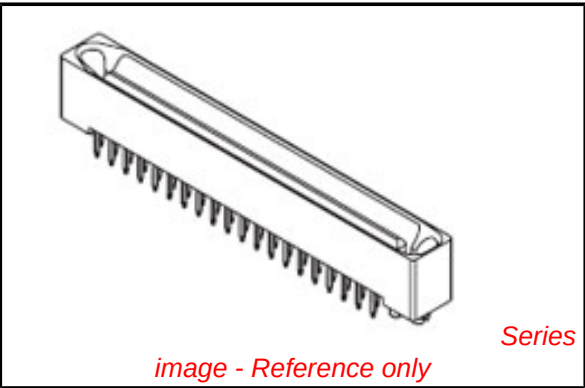
CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	71661
Application	Board-to-Board, Wire-to-Board
Overview	ebbi_50d
Product Name	EBBI™

Physical

Breakaway	No
Circuits (Loaded)	120
Circuits (maximum)	120
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)	0.134 In
PC Tail Length (mm)	3.40 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



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

Halogen-Free Status

Not Reviewed

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

71661Series

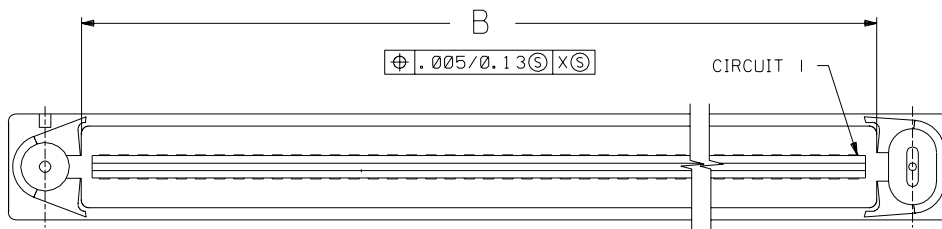
Mates With

EBBI™ 50D Receptacle 71660

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

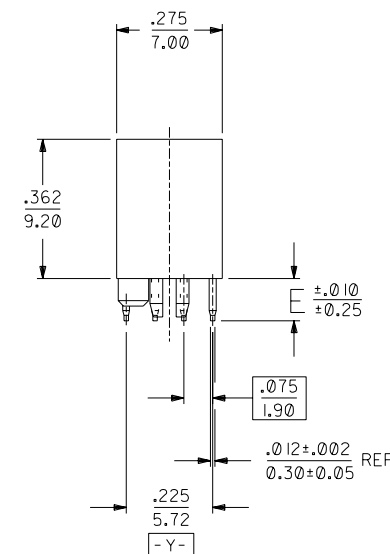
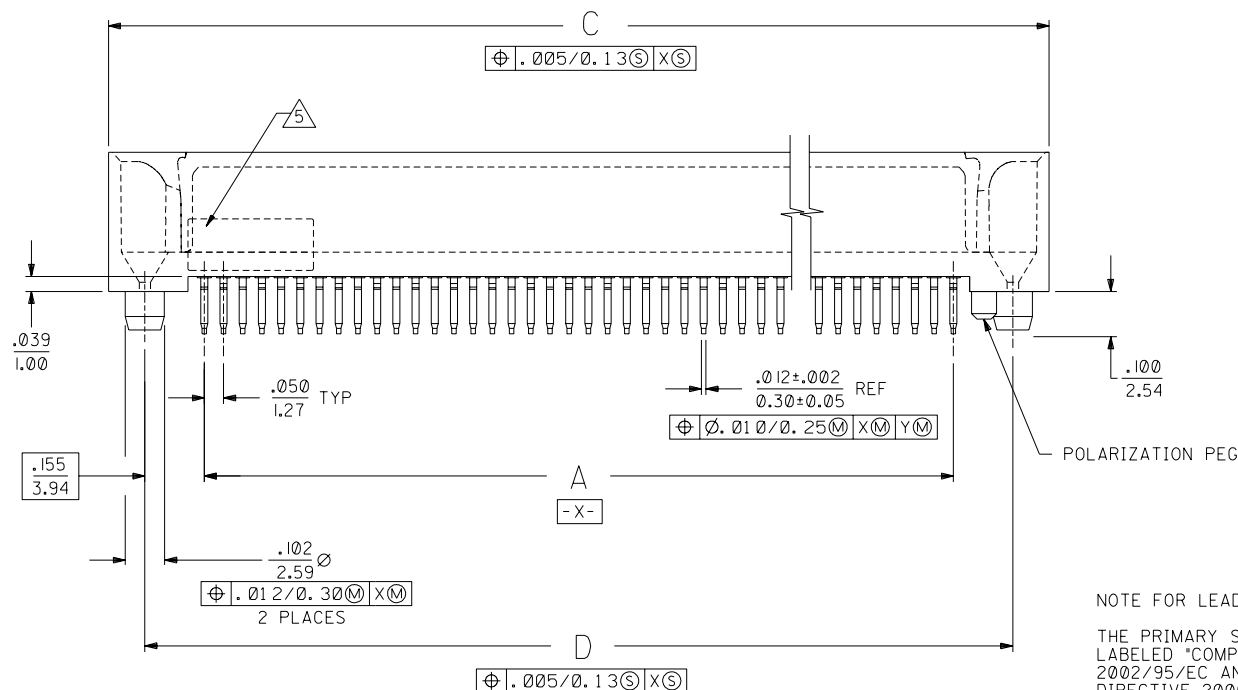
This document was generated on 05/31/2010

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NOTES:

- 1) MATERIALS:
HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS FILLED,
UL94V-0, COLOR: BLACK
TERMINALS - COPPER ALLOY
- 2) TERMINAL FINISH:
30 MICROINCH/0.76 MICROMETER MINIMUM GOLD IN CONTACT AREA AND
50 MICROINCH/1.27 MICROMETER MINIMUM TIN IN TAIL AREA OVER
NICKEL UNDERPLATE OVERALL.
- 3) ASSEMBLY MATES WITH MOLEX PART NUMBER 71660-7***.
CONFORMS TO PRODUCT SPECIFICATION PS-71660.
- 4) RECOMMENDED P.C. BOARD THICKNESS IS .062/1.6 MILLIMETER.
- 5) FOUR DIGIT DATE CODE TO BE LOCATED ON SURFACE
AS SHOWN.
- 6) PRODUCT PACKAGED PER SPECIFICATION PK-71660.



NOTE FOR LEAD FREE CONVERSION:

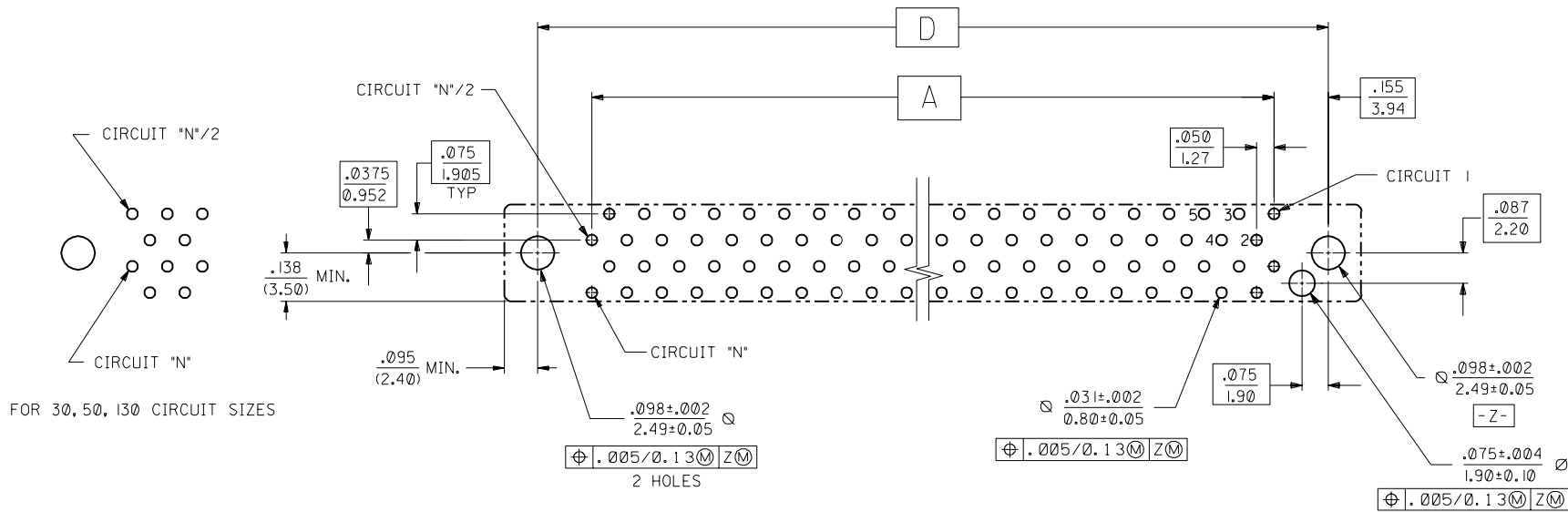
THE PRIMARY SHIPPING CARTON WILL BE
LABELED "COMPLIANT TO ROHS DIRECTIVE
2002/95/EC AND ELV ANNEX II OF
DIRECTIVE 2000/53/EC". CARTONS WITHOUT
THIS LABEL MAY CONTAIN PRODUCT WITH
LEAD.

L	LEAD FREE CONV ECN UCP2004-2096 RKADAMS 04/04/26
K	REVIS PER ECN U71314 ACHAMMER 97-4-28
J	REVIS PER ECN U70133 ACHAMMER 96-8-7
I	REVIS PER ECN U61477 7-3-96 DGA
H	REVIS PER ECN U61278 5-2-96 DGA
G	REVIS PER ECN U60641 11-28-95 DRS
F	REVIS PER ECN U60564 11-8-95 RAN
E	REVIS PER ECN U50229 9-23-94 RAN
D	REVIS PER ECN U40090 8-30-94 RAN
C	REVIS PER ECN U40506 4-15-94 RAN
B	REVIS PER ECN U40305 3-4-94 RAN
A	INITIAL RELEASE PER ECN U51832 12-15-93 RAN

2	K
I	L
MFG.	SH.
REV.	LTR.
REV.	REVISIONS

DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 1/2^\circ$		TITLE SALES ASSEMBLY EBBI 50D, VERTICAL PLUG BLIND MATE CONNECTOR														
<table border="1"> <tr> <th>3 PLACE</th> <th>INCH</th> <th>METRIC</th> </tr> <tr> <td>2 PLACE</td> <td>$\pm .01$</td> <td>$\pm$</td> </tr> <tr> <td>1 PLACE</td> <td>$\pm$</td> <td>$\pm$</td> </tr> </table>		3 PLACE	INCH	METRIC	2 PLACE	$\pm .01$	$\pm$	1 PLACE	$\pm$	$\pm$	<table border="1"> <tr> <td>DATE</td> <td>11/17/93</td> </tr> <tr> <td>SHEET NO.</td> <td>1 OF 2</td> </tr> </table>		DATE	11/17/93	SHEET NO.	1 OF 2
3 PLACE	INCH	METRIC														
2 PLACE	$\pm .01$	$\pm$														
1 PLACE	$\pm$	$\pm$														
DATE	11/17/93															
SHEET NO.	1 OF 2															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MOLEX INCORPORATED U.S.A.														
PART NO. SEE TABLE		DRWG. NO. SDA-71661-7***														
DRWG. BY RAN		CHK'D. BY RAN														
APP'D. BY CAB		SCALE 4: 1														
FILE NAME ST1661X7		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														

13		12	11		10	9	8	7	6	5	4	3	2	1
ITEM NUMBER		CKT ("N")	A		B		C		D		E			
J	71661-7030	30	.700 (17.78)		.820 (20.83)		1.199 (30.45)		1.010 (25.65)		.110 (2.79)			
	71661-7040	40	.950 (24.13)		1.070 (27.18)		1.449 (36.80)		1.260 (32.00)					
	71661-7050	50	1.200 (30.48)		1.320 (33.53)		1.699 (43.15)		1.510 (38.35)					
	71661-7060	60	1.450 (36.83)		1.570 (39.88)		1.949 (49.50)		1.760 (44.70)					
I	71661-7068	68	1.650 (41.91)		1.770 (44.96)		2.149 (54.58)		1.960 (49.78)					
	71661-7080	80	1.950 (49.53)		2.070 (52.58)		2.449 (62.20)		2.260 (57.40)					
	71661-7100	100	2.450 (62.23)		2.570 (65.28)		2.949 (74.90)		2.760 (70.10)					
	71661-7120	120	2.950 (74.93)		3.070 (77.98)		3.449 (87.60)		3.260 (82.80)					
H	71661-7130	130	3.200 (81.28)		3.320 (84.33)		3.699 (93.95)		3.510 (89.15)					
	71661-7230	30	.700 (17.78)		.820 (20.83)		1.199 (30.45)		1.010 (25.65)		.134 (3.40)			
	71661-7240	40	.950 (24.13)		1.070 (27.18)		1.449 (36.80)		1.260 (32.00)					
	71661-7250	50	1.200 (30.48)		1.320 (33.53)		1.699 (43.15)		1.510 (38.35)					
G	71661-7260	60	1.450 (36.83)		1.570 (39.88)		1.949 (49.50)		1.760 (44.70)					
	71661-7268	68	1.650 (41.91)		1.770 (44.96)		2.149 (54.58)		1.960 (49.78)					
	71661-7280	80	1.950 (49.53)		2.070 (52.58)		2.449 (62.20)		2.260 (57.40)					
	71661-7300	100	2.450 (62.23)		2.570 (65.28)		2.949 (74.90)		2.760 (70.10)					
	71661-7320	120	2.950 (74.93)		3.070 (77.98)		3.449 (87.60)		3.260 (82.80)					
	71661-7330	130	3.200 (81.28)		3.320 (84.33)		3.699 (93.95)		3.510 (89.15)					



RECOMMENDED PC BOARD LAYOUT 
COMPONENT SIDE
FOR 40, 60, 68, 80, 100, 120 CIRCUIT SIZES

DIMENSIONS SHOWN (METRIC) INCH		▽ = 0		▽ = 0		REVISE ONLY ON CAD SYSTEM	
UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR ± 1/2°		TITLE		SALES ASSEMBLY EBBI 50D, VERTICAL PLUG BLIND MATE CONNECTOR		SHEET NO. 2	
3 PLACE ± .005 ---		INCH		METRIC		DATE 11/17/93	
2 PLACE ± --- ± 0.13		1 PLACE --- ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		PART NO. 135LJLL 60532	
DRAWN BY RAN		CHK'D BY RAN		SCALE 4: 1		DIV. C	
APP'D BY CAB		FILE NAME 57165 V17		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SIZE C	