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Part Number: [0015921468](#)
Status: **Active**
Description: 1.27mm (.050") Pitch EBBI™ 50D Receptacle, Vertical, 68 Circuits

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 Receptacles
Series	71660
Application	Board-to-Board
Product Name	EBBI™

Physical

Circuits (Loaded)	68
Color - Resin	Black
Durability (mating cycles max)	2,000
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.110 In
PC Tail Length (mm)	2.79 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)	0.75
Plating min: Termination (µin)	10
Plating min: Termination (µm)	0.25
Polarized to PCB	Yes
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

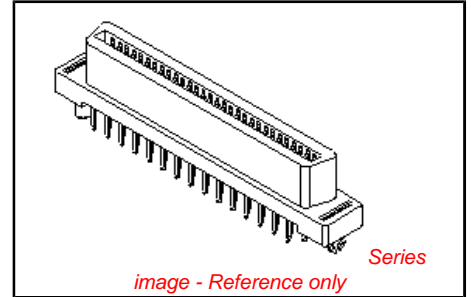
Electrical

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



<p>EU RoHS ELV and RoHS Compliant REACH SVHC Contains SVHC: No Halogen-Free Status Halogen-Free</p>	<p>China RoHS</p>
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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
[71660Series](#)

Mates With
[71661](#)

Old Part Number

71660-1368

Reference - Drawing Numbers

Product Specification

PS-71660

Sales Drawing

SDA-71660-1***, SDA-71660-1****

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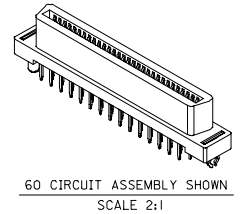
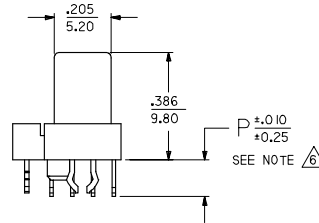
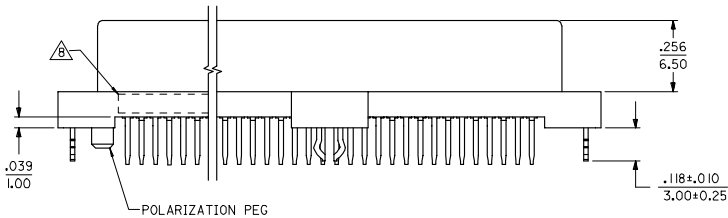
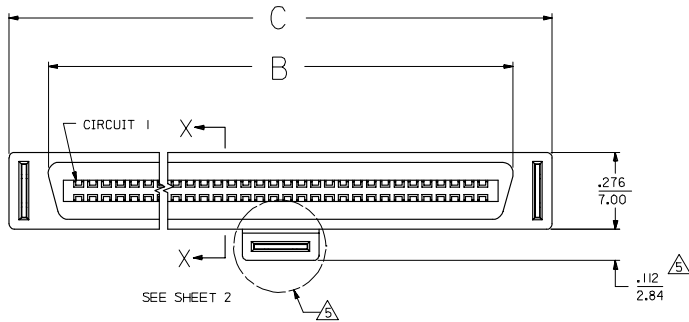
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NOTES:

- 1) MATERIALS:
HOUSING- LCP, GLASS FILLED, 94V-0, BLACK.
TERMINALS- COPPER ALLOY
METAL PEGS- COPPER ALLOY
- 2) FINISH:
TERMINALS:
.000030/(0.00076) MINIMUM GOLD IN CONTACT AREA OVER
.000050/(0.00127) MINIMUM TIN IN TAIL AREA OVER
.000075/(0.00191) MINIMUM NICKEL UNDERPLATE OVERALL.
- 3) ASSEMBLY MATES WITH MOLEX P/N SDA-71661-****.
- 4) CONFORMS TO PRODUCT SPECIFICATION PS-71660.
- 5) CENTER PEG IS ONLY ON I20 AND I30 CIRCUIT ASSEMBLIES.
- 6) TAIL LENGTH ON FIRST MATE CONTACTS IS APPROXIMATELY
.010 INCH/0.25 MM SHORTER THAN THE TAIL LENGTH SPECIFIED.
- 7) CONNECTOR WILL ACCEPT MATING TO A P.C. BOARD WITH
A THICKNESS OF .062±.003.
- 8) FOUR DIGIT DATE CODE (WK YR), EXAMPLE => 26 96
LOCATED IN AREA INDICATED.
- 9) SEE CHART FOR PACKAGING INFORMATION.



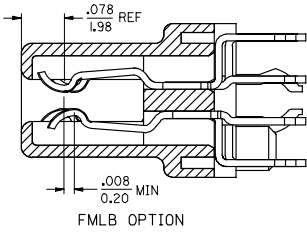
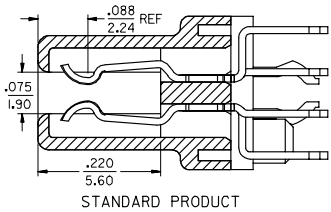
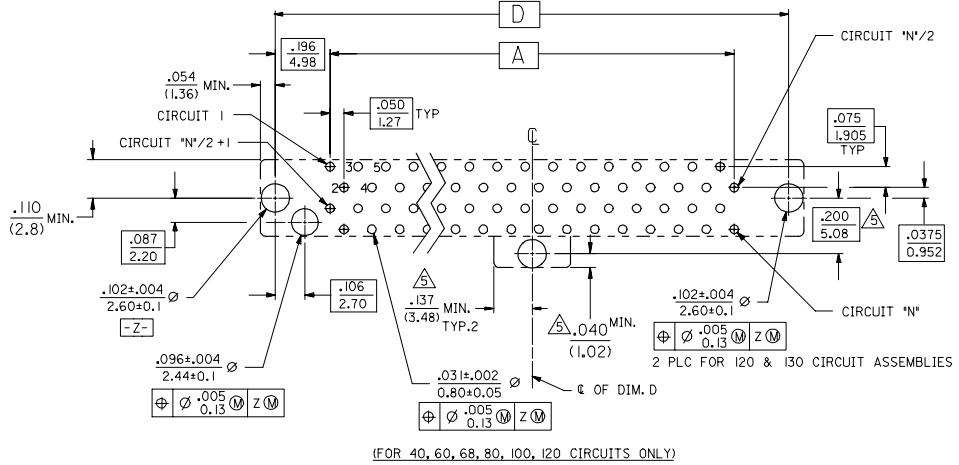
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SHT	REV

UPDATE BORDER EC NO. UCP2007-0935 DRWNSBARER 2006/11/06 CHACKIDBARA 2006/11/06 APPR:SHILLER 2006/11/07	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>±.005</td> <td>±.0005</td> </tr> <tr> <td>3 PLACES</td> <td>±.010</td> <td>±.0010</td> </tr> <tr> <td>2 PLACES</td> <td>±.013</td> <td>±.0013</td> </tr> <tr> <td>1 PLACE</td> <td>±.025</td> <td>±.0025</td> </tr> </table> ANGULAR ±1/2°		mm	INCH	4 PLACES	±.005	±.0005	3 PLACES	±.010	±.0010	2 PLACES	±.013	±.0013	1 PLACE	±.025	±.0025	DIMENSION STYLE IN/MM	SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
			mm	INCH																	
	4 PLACES		±.005	±.0005																	
	3 PLACES		±.010	±.0010																	
2 PLACES	±.013	±.0013																			
1 PLACE	±.025	±.0025																			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY RAN DATE 6/15/92	CHECKED BY RAN DATE 6/15/92	APPROVED BY LAB DATE 6/15/92	MATERIAL NO. SEE TABLE	DOCUMENT NO. SDA-71660-1***	SHEET NO. 1 OF 3															
TITLE SALES ASSEMBLY MOLEX EBB1 50D VERTICAL RECEPTACLE CONNECTOR	MOLEX INCORPORATED																				
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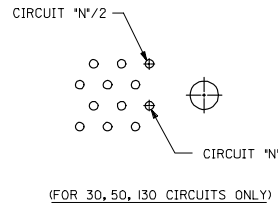
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SECTION X-X
SCALE - 8:1

RECOMMENDED PC BOARD LAYOUT
COMPONENT SIDE



UPDATE BORDER EC NO. UCP2007-0935 DRW:BARBER 2006/11/06 CHK:BARBER 2006/11/06 APPR:STILLER 2006/11/07	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
		4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± .13 ± .10 1 PLACE ± 0.25 ± --- ANGULAR ±1/2°	mm INCH DRAWN BY DATE RAN 6/15/92 CHECKED BY DATE RAN 6/15/92 APPROVED BY DATE LAB 6/15/92	TITLE SALES ASSEMBLY MOLEX EBBI 50D VERTICAL RECEPTACLE			MOLEX INCORPORATED	MATERIAL NO. SEE CHART
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						

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ENGINEERING NUMBER	EDP NUMBER	PACKAGING SPEC	CKT (*N*)	A	B	C	D	P	ADVANCED TERMINALS / CKTS SEE SECTION X-X *FMLB OPT*
SDA-71660-1030	015-92-1030	PK-71660	30	.700 (17.78)	.918 (23.32)	1.199 (30.45)	1.092 (27.75)		
SDA-71660-1040	015-92-1040	PK-71660	40	.950 (24.13)	1.168 (29.67)	1.449 (36.80)	1.342 (34.10)		
SDA-71660-1050	015-92-1050	PK-71660	50	1.200 (30.48)	1.418 (36.02)	1.699 (43.15)	1.592 (40.45)		
SDA-71660-1060	015-92-1060	PK-71660	60	1.450 (36.83)	1.668 (42.37)	1.949 (49.50)	1.842 (46.80)		
SDA-71660-1068	015-92-1068	PK-71660	68	1.650 (41.91)	1.868 (47.45)	2.149 (54.58)	2.042 (51.88)	.134 (3.40)	N/A
SDA-71660-1080	015-92-1080	PK-71660	80	1.950 (49.53)	2.168 (55.07)	2.449 (62.20)	2.342 (59.50)		
SDA-71660-1100	015-92-1100	PK-71660	100	2.450 (62.23)	2.668 (67.77)	2.949 (74.90)	2.842 (72.20)		
SDA-71660-1120	015-92-1120	PK-71660	120	2.950 (74.93)	3.168 (80.47)	3.449 (87.60)	3.342 (84.90)		
SDA-71660-1130	015-92-1130	PK-71660	130	3.200 (81.28)	3.418 (86.82)	3.699 (93.95)	3.592 (91.25)		
SDA-71660-1330	015-92-1430	PK-71660	30	.700 (17.78)	.918 (23.32)	1.199 (30.45)	1.092 (27.75)		
SDA-71660-1340	015-92-1440	PK-71660	40	.950 (24.13)	1.168 (29.67)	1.449 (36.80)	1.342 (34.10)		
SDA-71660-1350	015-92-1450	PK-71660	50	1.200 (30.48)	1.418 (36.02)	1.699 (43.15)	1.592 (40.45)		
SDA-71660-1360	015-92-1460	PK-71660	60	1.450 (36.83)	1.668 (42.37)	1.949 (49.50)	1.842 (46.80)		
SDA-71660-1368	015-92-1468	PK-71660	68	1.650 (41.91)	1.868 (47.45)	2.149 (54.58)	2.042 (51.88)	.110 (2.79)	N/A
SDA-71660-1380	015-92-1480	PK-71660	80	1.950 (49.53)	2.168 (55.07)	2.449 (62.20)	2.342 (59.50)		
SDA-71660-1400	015-92-1500	PK-71660	100	2.450 (62.23)	2.668 (67.77)	2.949 (74.90)	2.842 (72.20)		
SDA-71660-1401	015-92-1501	PK-70873-0816	100	2.450 (62.23)	2.668 (67.77)	2.949 (74.90)	2.842 (72.20)		
SDA-71660-1420	015-92-1520	PK-71660	120	2.950 (74.93)	3.168 (80.47)	3.449 (87.60)	3.342 (84.90)		
SDA-71660-1430	015-92-1530	PK-71660	130	3.200 (81.28)	3.418 (86.82)	3.699 (93.95)	3.592 (91.25)		
SDA-71660-1550	015-92-1550	PK-71660	50	1.200 (30.48)	1.418 (36.02)	1.699 (43.15)	1.592 (40.45)	.134 (3.40)	2-4, 8-11, 14, 17, 20, 23, 26-29, 31, 32, 34, 36, 39, 42, 45, 48, 49
SDA-71660-1630	716601630	PK-71660	30	.700 (17.78)	.918 (23.32)	1.199 (30.45)	1.092 (27.75)		
SDA-71660-1640	716601640	PK-71660	40	.950 (24.13)	1.168 (29.67)	1.449 (36.80)	1.342 (34.10)		
SDA-71660-1650	716601650	PK-71660	50	1.200 (30.48)	1.418 (36.02)	1.699 (43.15)	1.592 (40.45)		
SDA-71660-1660	716601660	PK-71660	60	1.450 (36.83)	1.668 (42.37)	1.949 (49.50)	1.842 (46.80)		
SDA-71660-1668	716601668	PK-71660	68	1.650 (41.91)	1.868 (47.45)	2.149 (54.58)	2.042 (51.88)	.155 (3.94)	N/A
SDA-71660-1680	716601680	PK-71660	80	1.950 (49.53)	2.168 (55.07)	2.449 (62.20)	2.342 (59.50)		
SDA-71660-1700	716601700	PK-71660	100	2.450 (62.23)	2.668 (67.77)	2.949 (74.90)	2.842 (72.20)		
SDA-71660-1720	716601720	PK-71660	120	2.950 (74.93)	3.168 (80.47)	3.449 (87.60)	3.342 (84.90)		
SDA-71660-1730	716601730	PK-71660	130	3.200 (81.28)	3.418 (86.82)	3.699 (93.95)	3.592 (91.25)		

UPDATE BORDER EC NO: UCP2007-0935 DRWNSBARBER 2006/11/06 CHKCD: 2006/11/06 APPR: SNILLER 2006/11/07 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	IN/MM	4:1	INCH	
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE		
		3 PLACES ± --- ± .005	RAN 6/15/92	SALES ASSEMBLY		
	2 PLACES ± 0.13 ± 0.10	CHECKED BY DATE	MOLEX EBBI 50D VERTICAL			
	1 PLACE ± 0.25 ± ---	RAN 6/15/92	RECEPTACLE			
	ANGULAR ±1/2°	APPROVED BY DATE	MOLEX MOLEX INCORPORATED			
		LAB 6/15/92	MOLEX INCORPORATED			
		MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
		SEE CHART	SDA-71660-1****	3 OF 3		
		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				

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