

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0015921050
Status: Active
Description: 1.27mm (.050") Pitch EBBI™ 50D Receptacle, Vertical, 50 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
Application Tooling Part Link 622004600
Application Tooling Part Link 622005500
Product Name EBBI™

Physical

Circuits (Loaded) 50
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) 0.134 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) 0.75
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

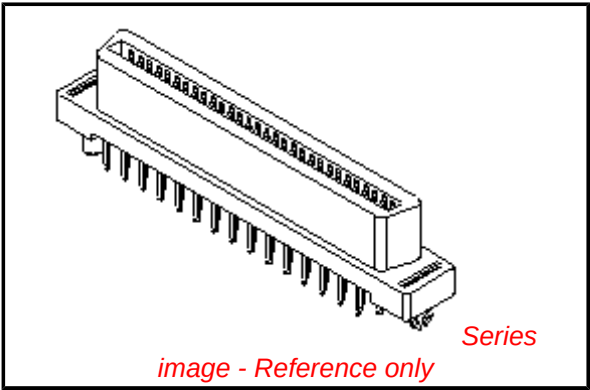


image - Reference only

Series

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

71660Series

Mates With

71661

Application Tooling | FAQ

*Tooling specifications and manuals are
found by selecting the products below.
Crimp Height Specifications are then
contained in the Application Tooling
Specification document.*

Global

Description	Product #
IDT - Manual Press	0622004600
IDT - Manual Press	0622005500

Material Info

Old Part Number A-71660-1050

Reference - Drawing Numbers

Product Specification PS-71660
Sales Drawing SDA-71660-1***, SDA-71660-1****

This document was generated on 04/14/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

13

12

11

10

9

8

7

6

5

4

3

2

1

J

I

H

G

F

E

D

C

B

A

J

I

H

G

F

E

D

C

B

A

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.

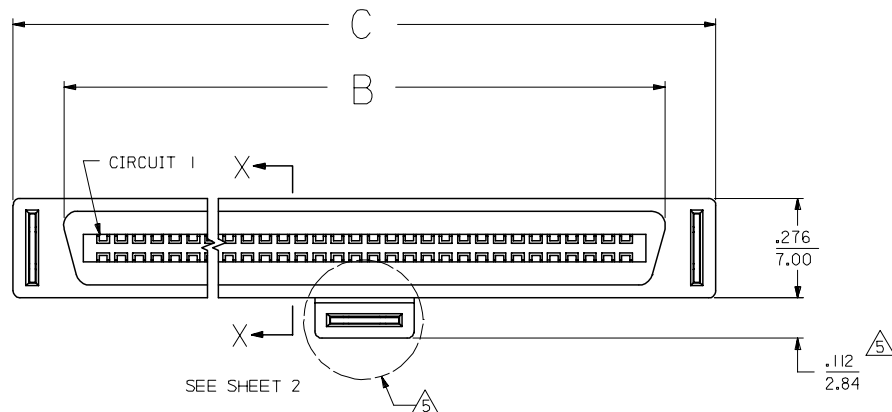
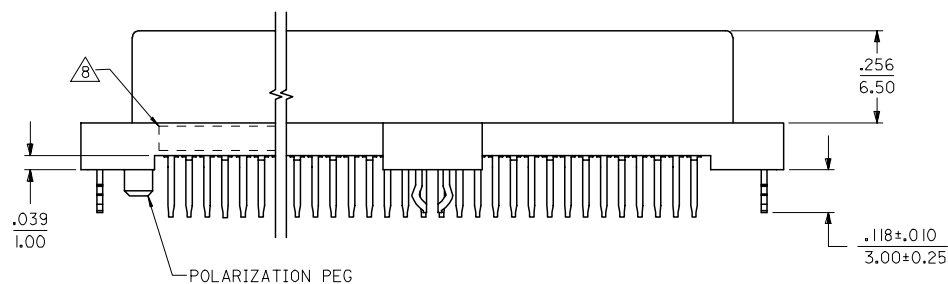
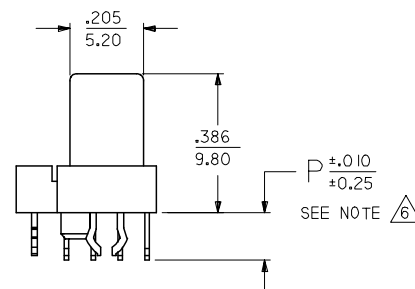
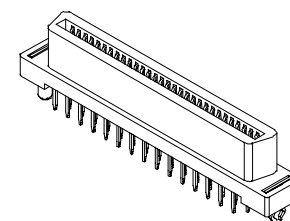
3) ASSEMBLY MATES WITH MOLEX P/N SDA-71661-****.

4) CONFORMS TO PRODUCT SPECIFICATION PS-71660.

△5 CENTER PEG IS ONLY ON 120 AND 130 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.

60 CIRCUIT ASSEMBLY SHOWN
SCALE 2:1

3	0
2	0
1	0
SHT	REV

UPDATE BORDER EC NO: UCP2007-0935 DRAWN BY: 2006/11/06 CHKD: MIBARRA 2006/11/06 APPR: SMILLER 2006/11/07 REV:	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
		mm	INCH	IN/MM		4:1	INCH			
		4 PLACES ±---	±---	DRAWN BY	DATE	SALES ASSEMBLY MOLEX EBBI 50D VERTICAL RECEPTACLE CONNECTOR				
		3 PLACES ±---	±.005	CHECKED BY	DATE					
		2 PLACES ±0.13	±.010	RAN	6/15/92	MOLEX INCORPORATED				
		1 PLACE ±0.25	±---	APPROVED BY	DATE					
		ANGULAR ±1/2°		CAB	6/15/92	SDA-71660-1***				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
				SEE TABLE				1 OF 3		
		SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

12

11

10

9

8

7

6

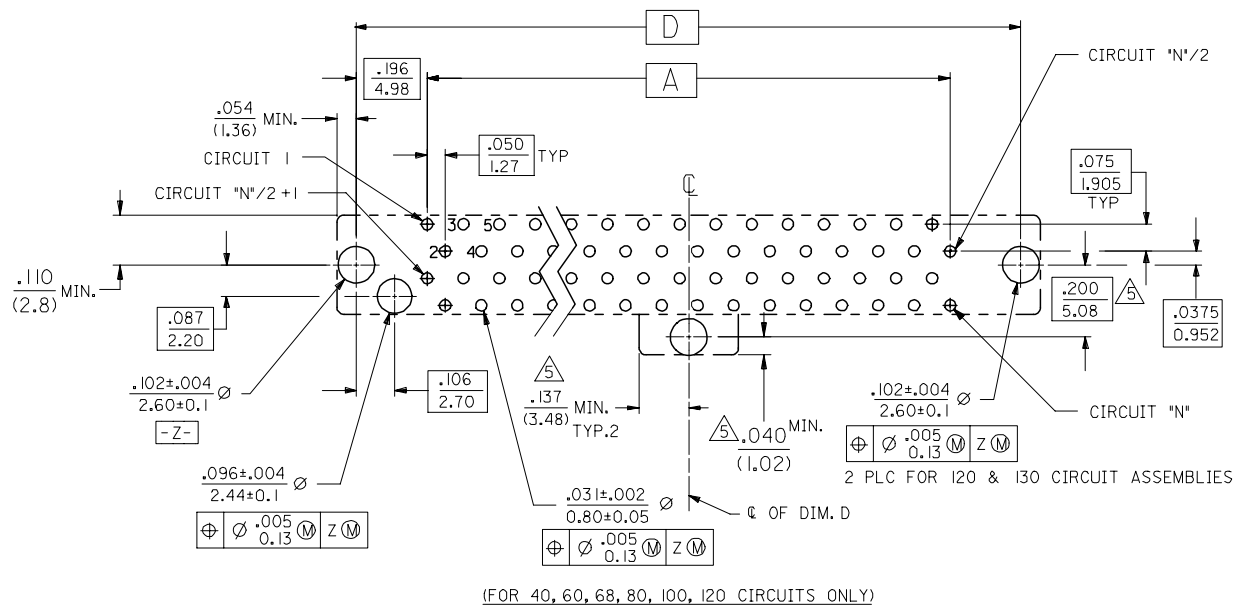
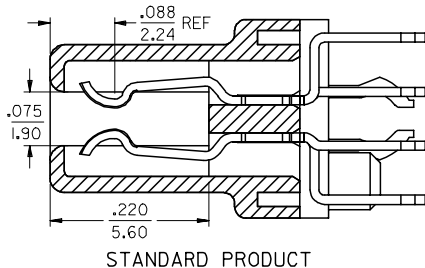
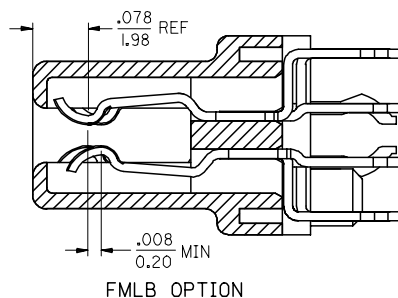
5

4

3

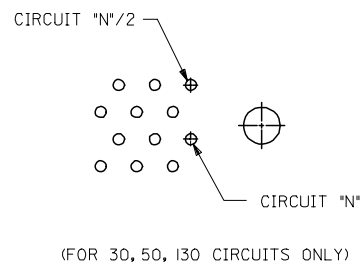
2

1

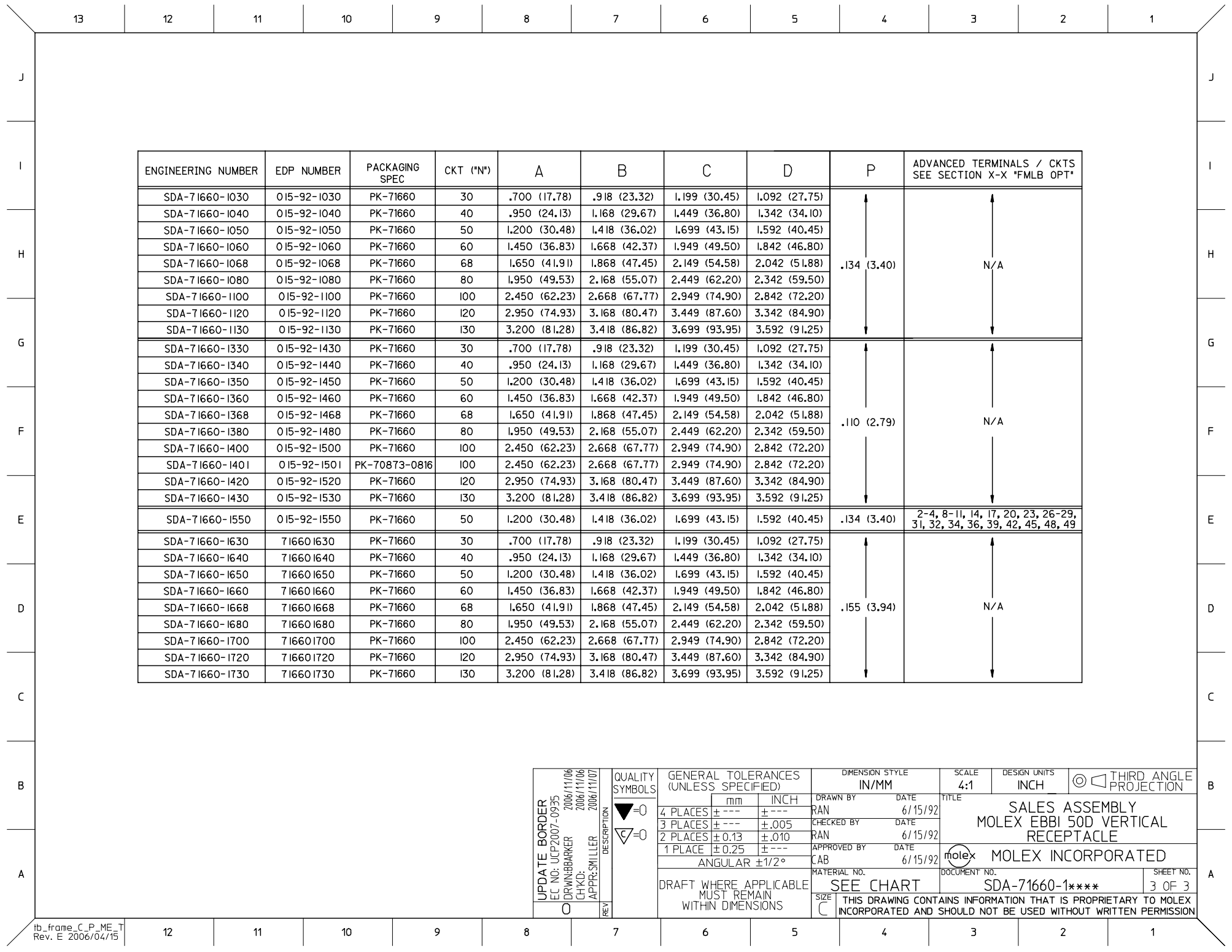


SECTION X-X
SCALE - 8:1

RECOMMENDED PC BOARD LAYOUT COMPONENT SIDE



UPDATE BORDER EC NO: UCP2007-0935 DRAWN BY: 2006/11/06 CHKD: MIBARRA 2006/11/06 APPR: SMILLER 2006/11/07 REV: O	QUALITY SYMBOLS ▽=0 ▽=0 DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
			IN/MM		4:1	INCH				
			mm	INCH	DRAWN BY	DATE	SALES ASSEMBLY MOLEX EBBI 50D VERTICAL RECEPTACLE			
			4 PLACES ± ---	± ---	RAN	6/15/92				
			3 PLACES ± ---	± .005	CHECKED BY	DATE				
			2 PLACES ± 0.13	± .010	RAN	6/15/92	MOLEX MOLEX INCORPORATED			
			1 PLACE ± 0.25	± ---	APPROVED BY	DATE				
			ANGULAR ± 1/2°		CAB	6/15/92	DOCUMENT NO. SDA-71660-1*** SHEET NO. 2 OF 3			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE CHART					
					SIZE C THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



ENGINEERING NUMBER	EDP NUMBER	PACKAGING SPEC	CKT (*N*)	A	B	C	D	P	ADVANCED TERMINALS / CKTS SEE SECTION X-X *FMLB OPT*
SDA-7 I660- I030	0 I5-92- I030	PK-7 I660	30	.700 (17.78)	.918 (23.32)	1.199 (30.45)	1.092 (27.75)	.134 (3.40)	N/A
SDA-7 I660- I040	0 I5-92- I040	PK-7 I660	40	.950 (24.13)	1.168 (29.67)	1.449 (36.80)	1.342 (34.10)		
SDA-7 I660- I050	0 I5-92- I050	PK-7 I660	50	1.200 (30.48)	1.418 (36.02)	1.699 (43.15)	1.592 (40.45)		
SDA-7 I660- I060	0 I5-92- I060	PK-7 I660	60	1.450 (36.83)	1.668 (42.37)	1.949 (49.50)	1.842 (46.80)		
SDA-7 I660- I068	0 I5-92- I068	PK-7 I660	68	1.650 (41.91)	1.868 (47.45)	2.149 (54.58)	2.042 (51.88)		
SDA-7 I660- I080	0 I5-92- I080	PK-7 I660	80	1.950 (49.53)	2.168 (55.07)	2.449 (62.20)	2.342 (59.50)		
SDA-7 I660- I100	0 I5-92- I100	PK-7 I660	100	2.450 (62.23)	2.668 (67.77)	2.949 (74.90)	2.842 (72.20)		
SDA-7 I660- I120	0 I5-92- I120	PK-7 I660	120	2.950 (74.93)	3.168 (80.47)	3.449 (87.60)	3.342 (84.90)		
SDA-7 I660- I130	0 I5-92- I130	PK-7 I660	130	3.200 (81.28)	3.418 (86.82)	3.699 (93.95)	3.592 (91.25)	.110 (2.79)	N/A
SDA-7 I660- I330	0 I5-92- I430	PK-7 I660	30	.700 (17.78)	.918 (23.32)	1.199 (30.45)	1.092 (27.75)		
SDA-7 I660- I340	0 I5-92- I440	PK-7 I660	40	.950 (24.13)	1.168 (29.67)	1.449 (36.80)	1.342 (34.10)		
SDA-7 I660- I350	0 I5-92- I450	PK-7 I660	50	1.200 (30.48)	1.418 (36.02)	1.699 (43.15)	1.592 (40.45)		
SDA-7 I660- I360	0 I5-92- I460	PK-7 I660	60	1.450 (36.83)	1.668 (42.37)	1.949 (49.50)	1.842 (46.80)		
SDA-7 I660- I368	0 I5-92- I468	PK-7 I660	68	1.650 (41.91)	1.868 (47.45)	2.149 (54.58)	2.042 (51.88)		
SDA-7 I660- I380	0 I5-92- I480	PK-7 I660	80	1.950 (49.53)	2.168 (55.07)	2.449 (62.20)	2.342 (59.50)		
SDA-7 I660- I400	0 I5-92- I500	PK-7 I660	100	2.450 (62.23)	2.668 (67.77)	2.949 (74.90)	2.842 (72.20)		
SDA-7 I660- I40 I	0 I5-92- I50 I	PK-70873-08 I6	100	2.450 (62.23)	2.668 (67.77)	2.949 (74.90)	2.842 (72.20)	.134 (3.40)	2-4, 8-11, 14, 17, 20, 23, 26-29, 31, 32, 34, 36, 39, 42, 45, 48, 49
SDA-7 I660- I420	0 I5-92- I520	PK-7 I660	120	2.950 (74.93)	3.168 (80.47)	3.449 (87.60)	3.342 (84.90)		
SDA-7 I660- I430	0 I5-92- I530	PK-7 I660	130	3.200 (81.28)	3.418 (86.82)	3.699 (93.95)	3.592 (91.25)		
SDA-7 I660- I550	0 I5-92- I550	PK-7 I660	50	1.200 (30.48)	1.418 (36.02)	1.699 (43.15)	1.592 (40.45)		
SDA-7 I660- I630	7 I660 I630	PK-7 I660	30	.700 (17.78)	.918 (23.32)	1.199 (30.45)	1.092 (27.75)	.155 (3.94)	N/A
SDA-7 I660- I640	7 I660 I640	PK-7 I660	40	.950 (24.13)	1.168 (29.67)	1.449 (36.80)	1.342 (34.10)		
SDA-7 I660- I650	7 I660 I650	PK-7 I660	50	1.200 (30.48)	1.418 (36.02)	1.699 (43.15)	1.592 (40.45)		
SDA-7 I660- I660	7 I660 I660	PK-7 I660	60	1.450 (36.83)	1.668 (42.37)	1.949 (49.50)	1.842 (46.80)		
SDA-7 I660- I668	7 I660 I668	PK-7 I660	68	1.650 (41.91)	1.868 (47.45)	2.149 (54.58)	2.042 (51.88)		
SDA-7 I660- I680	7 I660 I680	PK-7 I660	80	1.950 (49.53)	2.168 (55.07)	2.449 (62.20)	2.342 (59.50)		
SDA-7 I660- I700	7 I660 I700	PK-7 I660	100	2.450 (62.23)	2.668 (67.77)	2.949 (74.90)	2.842 (72.20)		
SDA-7 I660- I720	7 I660 I720	PK-7 I660	120	2.950 (74.93)	3.168 (80.47)	3.449 (87.60)	3.342 (84.90)		
SDA-7 I660- I730	7 I660 I730	PK-7 I660	130	3.200 (81.28)	3.418 (86.82)	3.699 (93.95)	3.592 (91.25)		

UPDATE BORDER
EC NO: UCP2007-0935
DRAWN: BARKER 2006/11/06
CHKD: 2006/11/06
APPR: SMILLER 2006/11/07
REV

DESCRIPTION

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± .005
2 PLACES ± 0.13 ± .010
1 PLACE ± 0.25 ± ---
ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY DATE
RAN 6/15/92

CHECKED BY DATE
RAN 6/15/92

APPROVED BY DATE
CAB 6/15/92

MATERIAL NO.

SIZE
C

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE PROJECTION

SALES ASSEMBLY
MOLEX EBBI 50D VERTICAL
RECEPTACLE

MOLEX INCORPORATED

SDA-71660-1****

SHEET NO.
3 OF 3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION