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Part Number: [0015921060](#)
Status: **Active**
Description: 1.27mm (.050") Pitch EBBI™ 50D Receptacle, Vertical, 60 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) 60
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

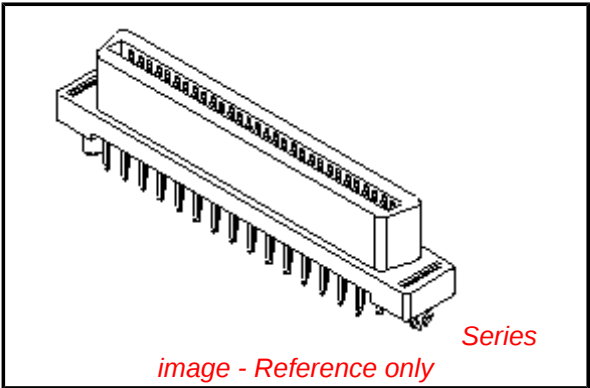
Electrical

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

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
[71660Series](#)

Mates With
[71661](#)

Old Part Number	716601060
Reference - Drawing Numbers	
Product Specification	PS-71660
Sales Drawing	SDA-71660-1***, SDA-71660-1****

This document was generated on 04/20/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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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.

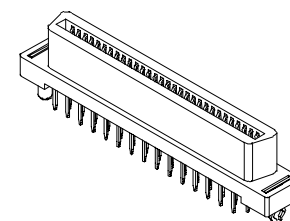
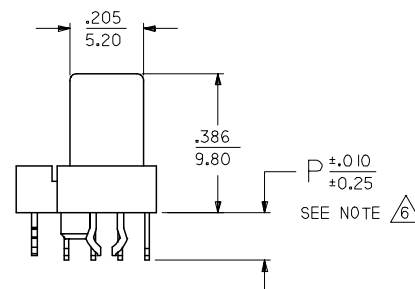
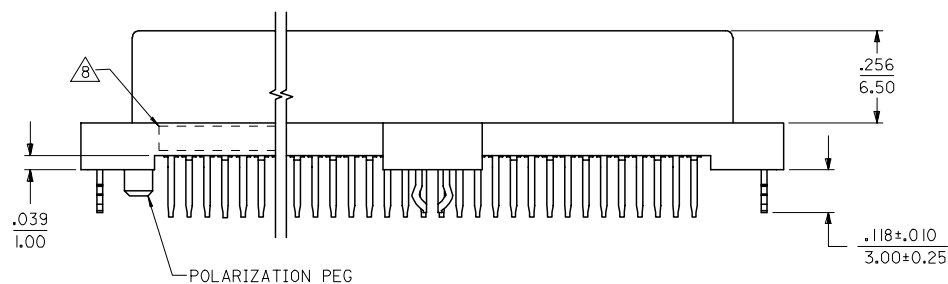
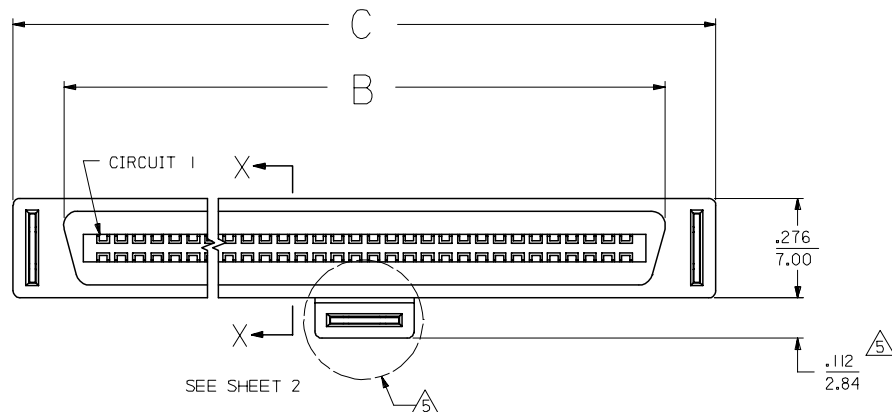
3) ASSEMBLY MATES WITH MOLEX P/N SDA-71661-****.

4) CONFORMS TO PRODUCT SPECIFICATION PS-71660.

△5 CENTER PEG IS ONLY ON 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	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION		
				IN/MM		4:1	INCH			
				mm	INCH	DRAWN BY			DATE	TITLE SALES ASSEMBLY MOLEX EBBI 50D VERTICAL RECEPTACLE CONNECTOR  MOLEX INCORPORATED
				4 PLACES	±.005	±.005	CHECKED BY		DATE	
				3 PLACES	±.013	±.013	RAN		6/15/92	
				2 PLACES	±.025	±.025	APPROVED BY		DATE	
				1 PLACE	±.050	±.050	CAB		6/15/92	
				ANGULAR ±1/2°		MATERIAL NO.			DOCUMENT NO.	SHEET NO.
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE			SDA-71660-1*** 1 OF 3	
						SIZE			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

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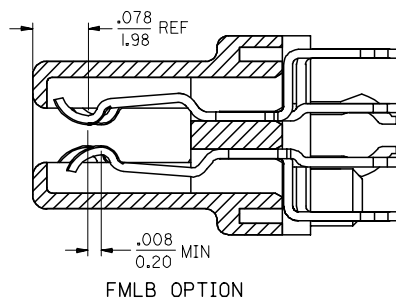
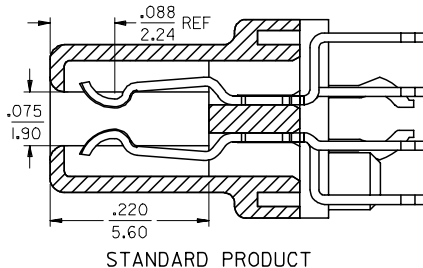
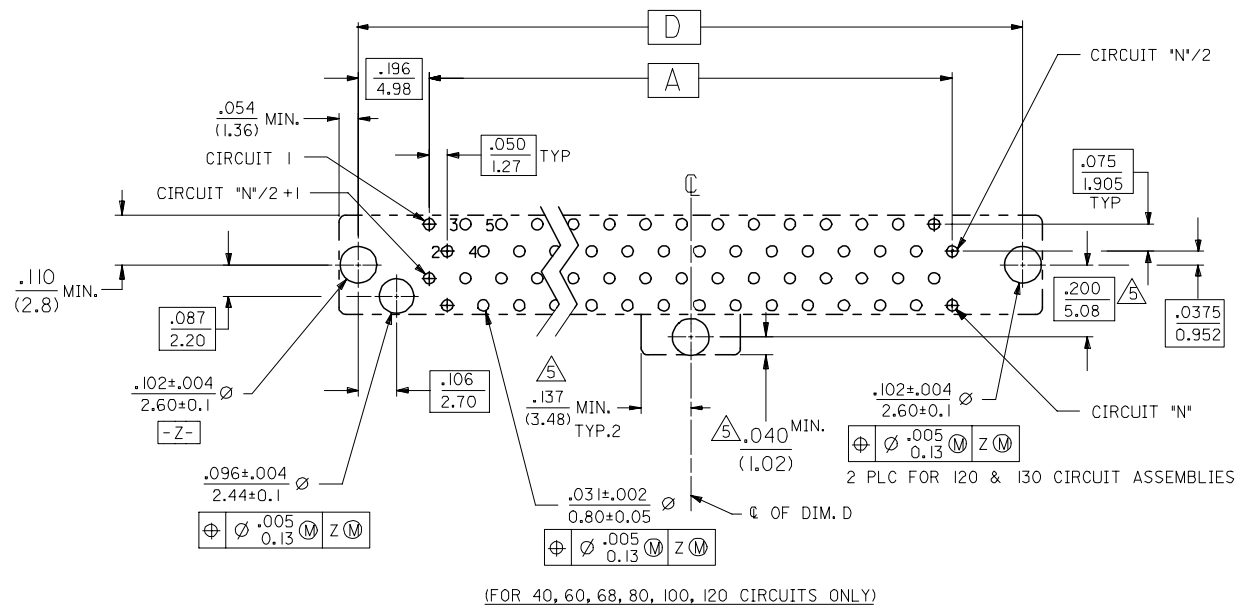
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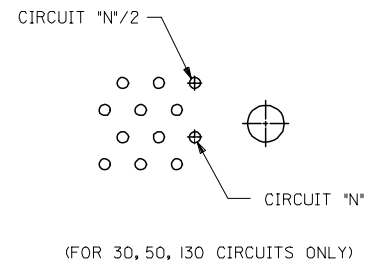
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SECTION X-X
SCALE - 8:1

RECOMMENDED PC BOARD LAYOUT COMPONENT SIDE



UPDATE BORDER EC NO: UCP2007-0935 DRAWN BY: 2006/11/06 CHKD: MIBARRA 2006/11/06 APPR: SMILLER 2006/11/07	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY	DATE	TITLE		
			4 PLACES	± .005	± .005	RAN	6/15/92	SALES ASSEMBLY MOLEX EBBI 50D VERTICAL RECEPTACLE MOLEX INCORPORATED		
			3 PLACES	± .010	± .010	CHECKED BY	DATE			
			2 PLACES	± .013	± .010	RAN	6/15/92			
			1 PLACE	± 0.25	± .010	APPROVED BY	DATE			
			ANGULAR ±1/2°		CAB	6/15/92				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.			SHEET NO.
					SEE CHART		SDA-71660-1***			2 OF 3
					SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
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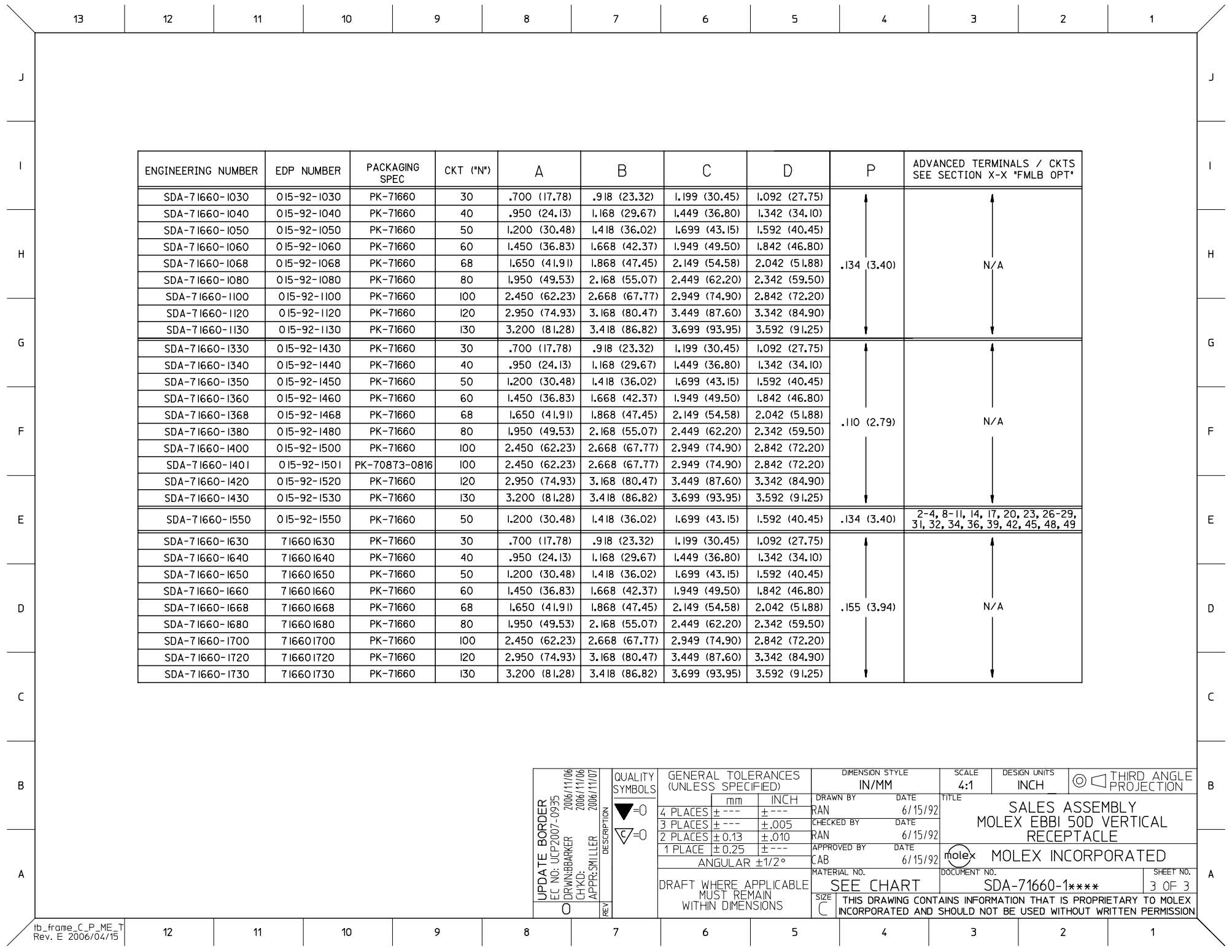
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ENGINEERING NUMBER	EDP NUMBER	PACKAGING SPEC	CKT (*N*)	A	B	C	D	P	ADVANCED TERMINALS / CKTS SEE SECTION X-X *FMLB OPT*
SDA-7 I660-I030	0 I5-92-I030	PK-71660	30	.700 (17.78)	.918 (23.32)	1.199 (30.45)	1.092 (27.75)	.134 (3.40)	N/A
SDA-7 I660-I040	0 I5-92-I040	PK-71660	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-71660	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-71660	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-71660	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-71660	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-71660	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-71660	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-71660	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-71660	30	.700 (17.78)	.918 (23.32)	1.199 (30.45)	1.092 (27.75)		
SDA-7 I660-I340	0 I5-92-I440	PK-71660	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-71660	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-71660	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-71660	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-71660	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-71660	100	2.450 (62.23)	2.668 (67.77)	2.949 (74.90)	2.842 (72.20)		
SDA-7 I660-I401	0 I5-92-I501	PK-70873-0816	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-71660	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-71660	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-71660	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-71660	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-71660	40	.950 (24.13)	1.168 (29.67)	1.449 (36.80)	1.342 (34.10)		
SDA-7 I660-I650	7 I660 I650	PK-71660	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-71660	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-71660	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-71660	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-71660	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-71660	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-71660	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	± .005	± .0005
3 PLACES	± .005	± .0010
2 PLACES	± 0.13	± .010
1 PLACE	± 0.25	± .020
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.	

SEE CHART

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

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