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Part Number: [0716612068](#)
Status: **Active**
Overview: [ebbi_50d](#)
Description: 1.27mm (.050") Pitch EBBI™ 50D Plug, Right Angle, 68 Circuits, 2.79mm (.110") PC Tail Length

Documents:

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

Agency Certification

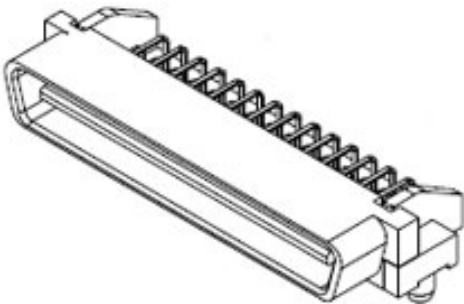
CSA	LR19980
UL	E29179

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)	68
Circuits (maximum)	68
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	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	4
Orientation	Right Angle
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
Pitch - Term. Interface (in)	0.050 In
Pitch - Term. Interface (mm)	1.27 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	50
Plating min: Termination (µm)	1.30
Polarized to Mating Part	Yes
Polarized to PCB	Yes



Series

image - Reference only

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

[71661Series](#)

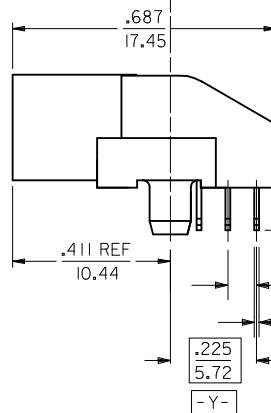
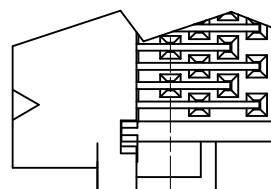
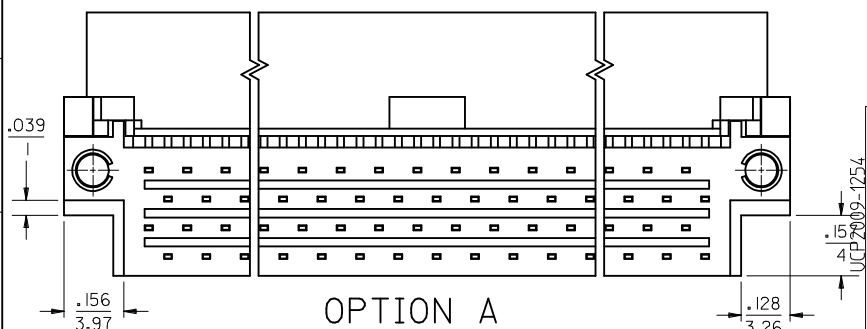
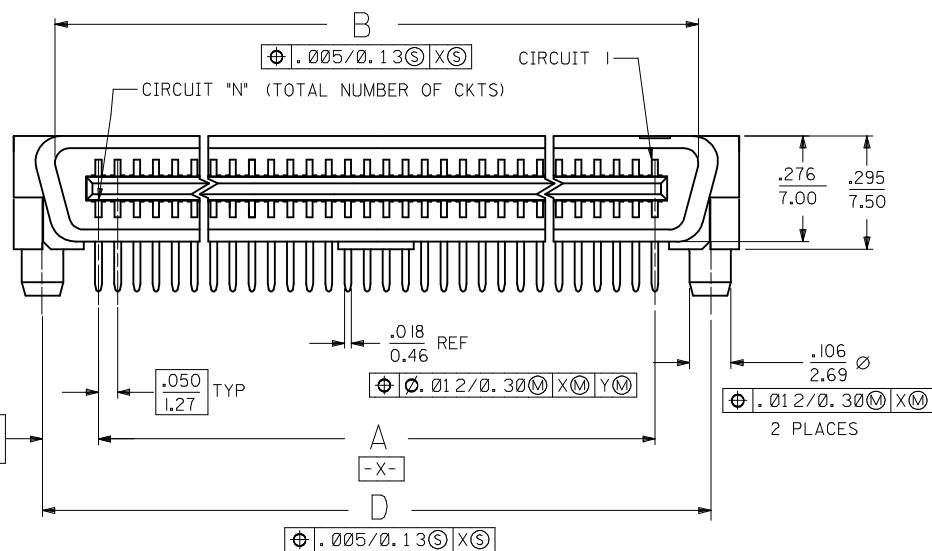
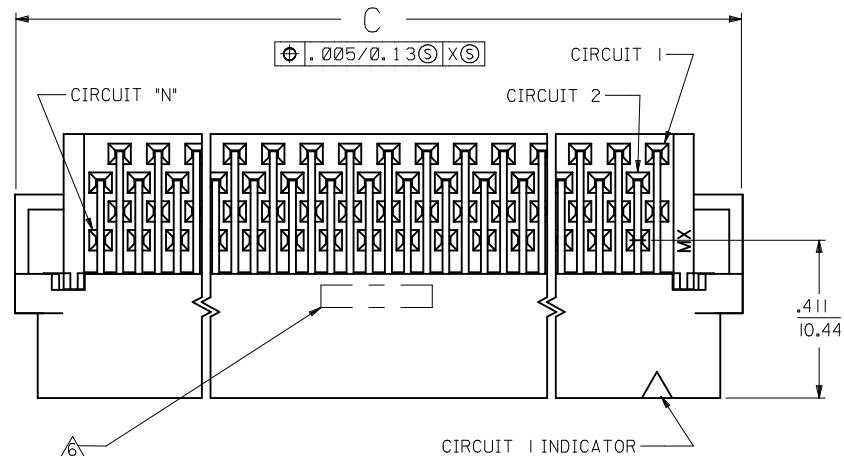
Mates With

EBBI™ 50D Receptacle [71660](#) , [87552](#)

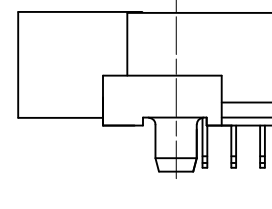
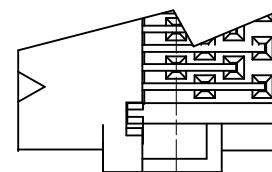
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole
Electrical	
Current - Maximum per Contact	1A
Voltage - Maximum	30V
Solder Process Data	
Lead-free Process Capability	SMC & Wave Capable (TH only)
Process Temperature max. C	235
Material Info	
Reference - Drawing Numbers	
Packaging Specification	PK-70873-084*
Product Specification	PS-71660
Sales Drawing	SDA-71661-2***

This document was generated on 05/31/2010

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END DETAIL
OPTION A
(BOTH ENDS)



END DETAIL
OPTION B
(BOTH ENDS)

NOTES:

1. MATERIAL:

HOUSING: LIQUID CRYSTAL POLYMER (LCP), GLAS-FILLED, UL 94V-0,
COLOR: BLACK

TERMINALS: BRASS

2. FINISH:

TERMINAL: 0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECTIVE GOLD
IN CONTACT AREA, 1.27 MICROMETERS/50 MICROINCHES MINIMUM
SELECTIVE TIN IN THE PC TAIL AREA; NICKEL UNDERPLATE OVERALL

3. ASSEMBLY MATES WITH MOLEX P/N SDA-71660-****

4. CONFORMS TO PRODUCT SPEC: PS-71660

RECOMMENDED PC BOARD THICKNESS IS .062/160

FOUR DIGIT DATE CODE (WK,YR) EXAMPLE 26 96 LOCATED IN AREA SHOWN

TOOLING STATUS: "X" INDICATES NO TOOLING AVAILABLE

CONTACT FACTORY FOR FURTHER INFORMATION

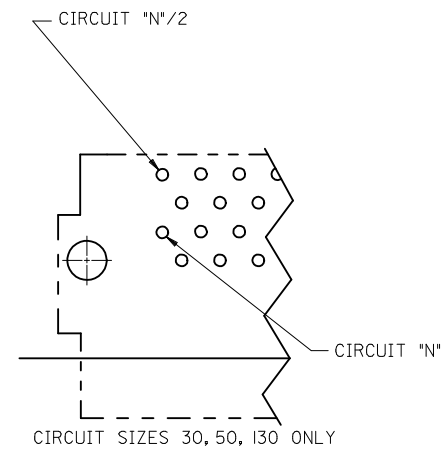
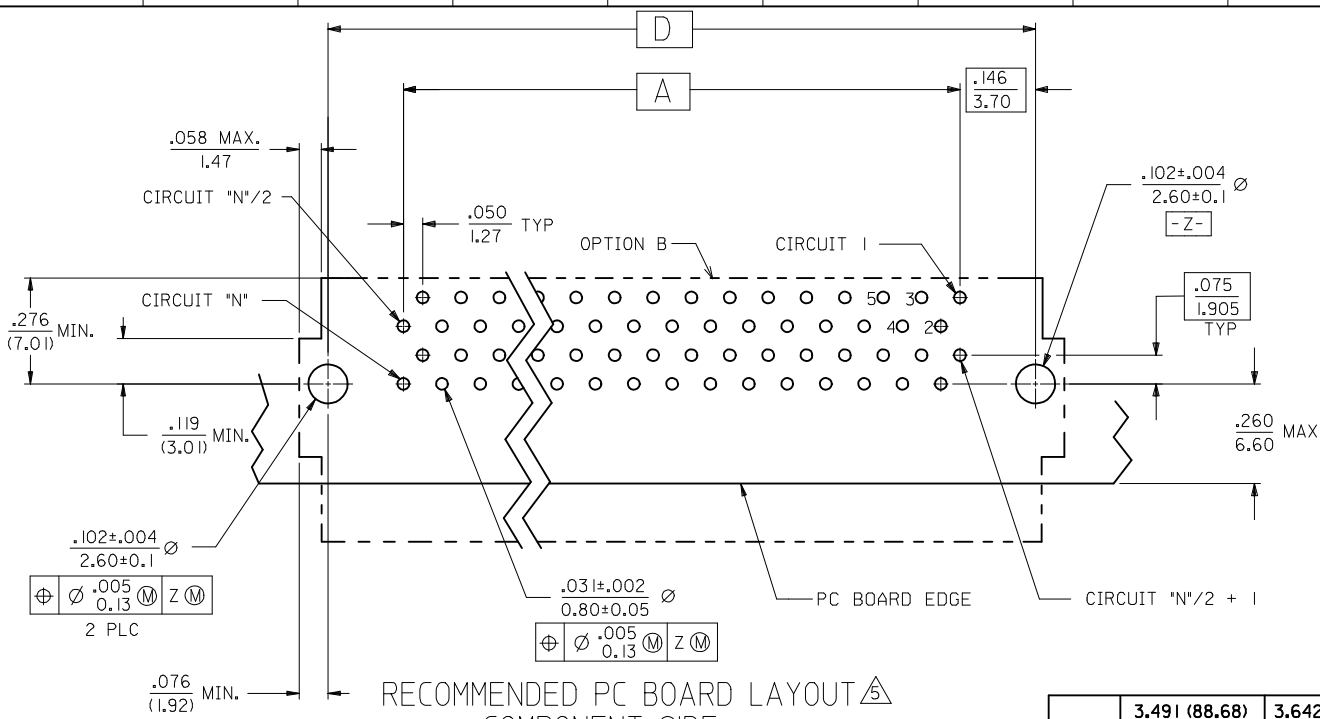
REV	DESCRIPTION	DATE	BY	CHKD	APPD
1	CHANGE MATERIAL	2008/12/19	DRWN:MS BARRA	CHKD:BBARKER	APPD:SMILLER
2		2009/01/06			

QUALITY SYMBOLS
0
0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 1/2°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	IN/MM
DRAWN BY	DATE
RAN	1993/02/23
CHECKED BY	DATE
RAN	1993/02/23
APPROVED BY	DATE
CAB	1993/02/23
MATERIAL NO.	SEE TABLE
DOCUMENT NO.	SDA-71661-2***
SIZE	C

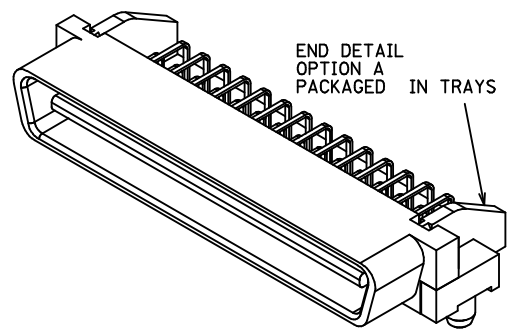
SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
4:1	INCH	
SALES ASSEMBLY		
EBBI 50D RIGHT ANGLE		
PLUG CONNECTOR		
MOLEX INCORPORATED		
SHEET NO.		1 OF 2
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



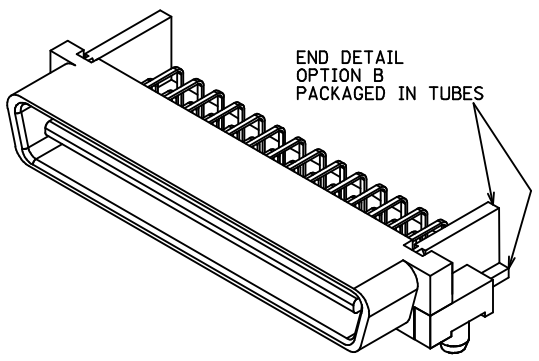
TRAY PACK
PER SPEC.
PK-70873-084*

END DETAIL
OPTION "A"

RECOMMENDED PC BOARD LAYOUT
COMPONENT SIDE



50 CIRCUIT ASSEMBLY SHOWN



END DETAIL
OPTION B
PACKAGED IN TUBES

.125 (3.18)	3.491 (88.68)	3.642 (92.50)	3.426 (87.02)	3.200 (81.28)	130	7166 I-2430
	3.241 (82.33)	3.392 (86.15)	3.176 (80.67)	2.950 (74.93)	120	7166 I-2420
	2.741 (69.63)	2.892 (73.45)	2.676 (67.97)	2.450 (62.23)	100	7166 I-2400
	2.241 (56.93)	2.392 (60.75)	2.176 (55.27)	1.950 (49.53)	80	7166 I-2380
	1.941 (49.31)	2.092 (53.13)	1.875 (47.65)	1.650 (41.91)	68	7166 I-2368
	1.741 (44.23)	1.892 (48.05)	1.676 (42.57)	1.450 (36.83)	60	7166 I-2360
	1.491 (37.88)	1.642 (41.70)	1.426 (36.22)	1.200 (30.48)	50	7166 I-2350
	1.241 (31.53)	1.392 (35.35)	1.176 (29.87)	.950 (24.13)	40	7166 I-2340
.110 (2.79)	.991 (25.18)	1.142 (29.00)	.925 (23.52)	.700 (17.78)	30	7166 I-2330
	3.491 (88.68)	3.642 (92.50)	3.426 (87.02)	3.200 (81.28)	130	7166 I-2130
	3.241 (82.33)	3.392 (86.15)	3.176 (80.67)	2.950 (74.93)	120	7166 I-2120
	2.741 (69.63)	2.892 (73.45)	2.676 (67.97)	2.450 (62.23)	100	7166 I-2100
	2.241 (56.93)	2.392 (60.75)	2.176 (55.27)	1.950 (49.53)	80	7166 I-2080
	1.941 (49.31)	2.092 (53.13)	1.875 (47.65)	1.650 (41.91)	68	7166 I-2068
	1.741 (44.23)	1.892 (48.05)	1.676 (42.57)	1.450 (36.83)	60	7166 I-2060
	1.491 (37.88)	1.642 (41.70)	1.426 (36.22)	1.200 (30.48)	50	7166 I-2050
	1.241 (31.53)	1.392 (35.35)	1.176 (29.87)	.950 (24.13)	40	7166 I-2040
	.991 (25.18)	1.142 (29.00)	.925 (23.52)	.700 (17.78)	30	7166 I-2030
E	D	C	B	A	CKT ("N")	ITEM NUMBER

CHANGE MATERIAL
EC NO: UCP2009-1254
DRWN:MS BARRA 2008/12/19
CHKD:BBARKER 2009/01/06
APPR:SMILLER 2009/01/06

REV N

QUALITY SYMBOLS
=0
=0

DESCRIPTION

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

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY
RAN
1993/02/23

CHECKED BY
RAN
1993/02/23

APPROVED BY
CAB
1993/02/23

MATERIAL NO.
SEE TABLE

SIZE
C

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE PROJECTION

SALES ASSEMBLY
EBBI 50D RIGHT ANGLE
PLUG CONNECTOR

MOLEX INCORPORATED

DOCUMENT NO.
SDA-71661-2***

SHEET NO.
2 OF 2

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