

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0716612330](#)
Status: **Active**
Overview: [ebbi_50d](#)
Description: 1.27mm (.050") Pitch EBBI™ 50D Plug, Right Angle, 30 Circuits, 3.18mm (.125") PC Tail Length

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

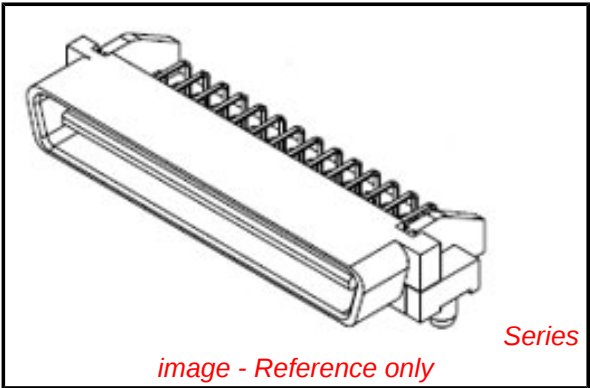
CSA LR19980
UL E29179

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) 30
Circuits (maximum) 30
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) 0.125 In
PC Tail Length (mm) 3.18 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) 0.75
Plating min: Termination (µin) 50
Plating min: Termination (µm) 1.25
Polarized to Mating Part Yes
Polarized to PCB Yes



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Halogen-Free



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

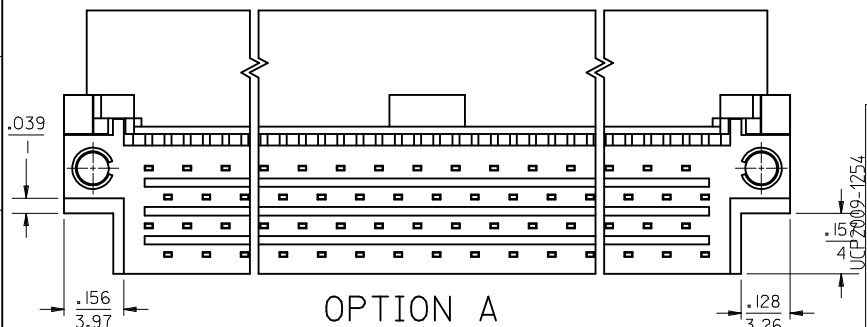
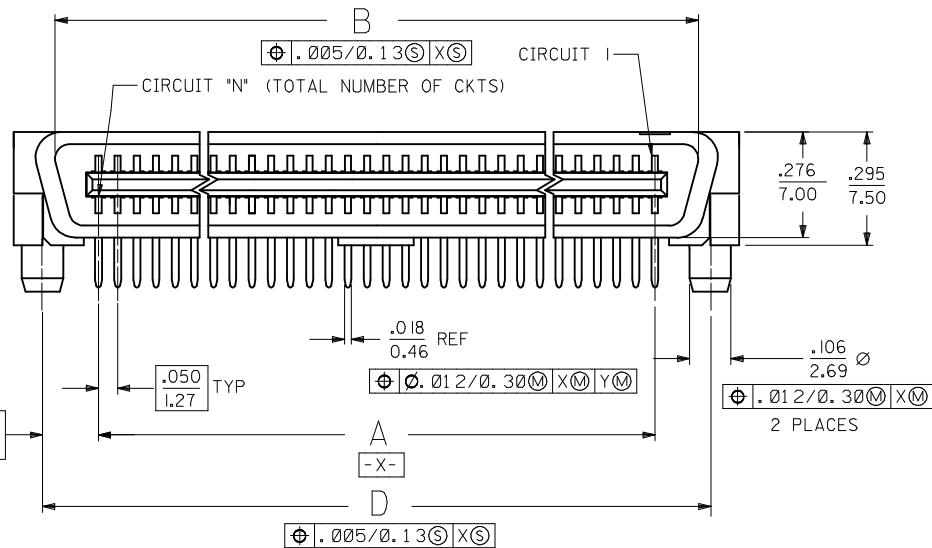
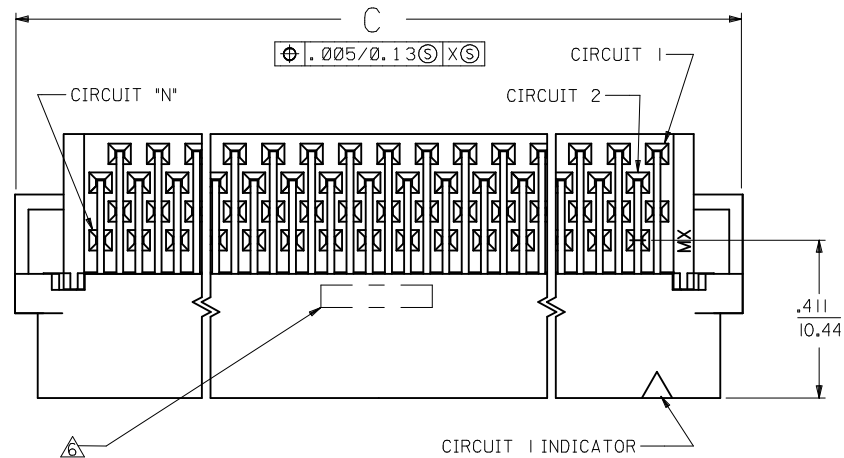
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-70873-084*
Sales Drawing	SDA-71661-2***

This document was generated on 05/31/2010

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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

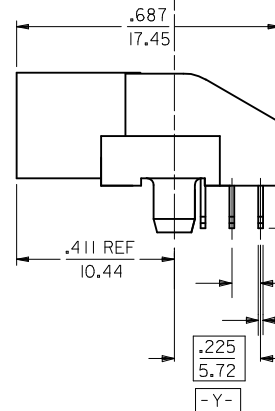
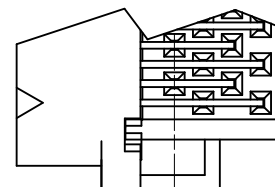
3. ASSEMBLY MATES WITH MOLEX P/N SDA-71660-****

4. CONFORMS TO PRODUCT SPEC: PS-71660

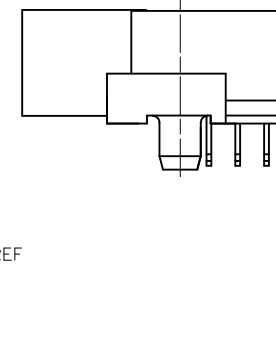
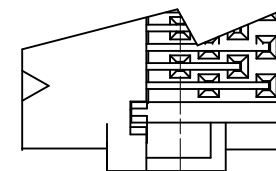
RECOMMENDED PC BOARD THICKNESS IS .062/1.60

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



END DETAIL
OPTION A
(BOTH ENDS)



END DETAIL
OPTION B
(BOTH ENDS)

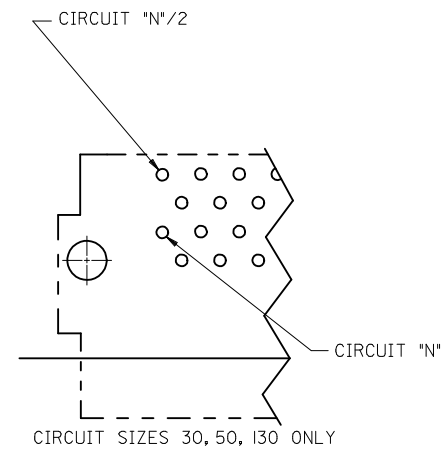
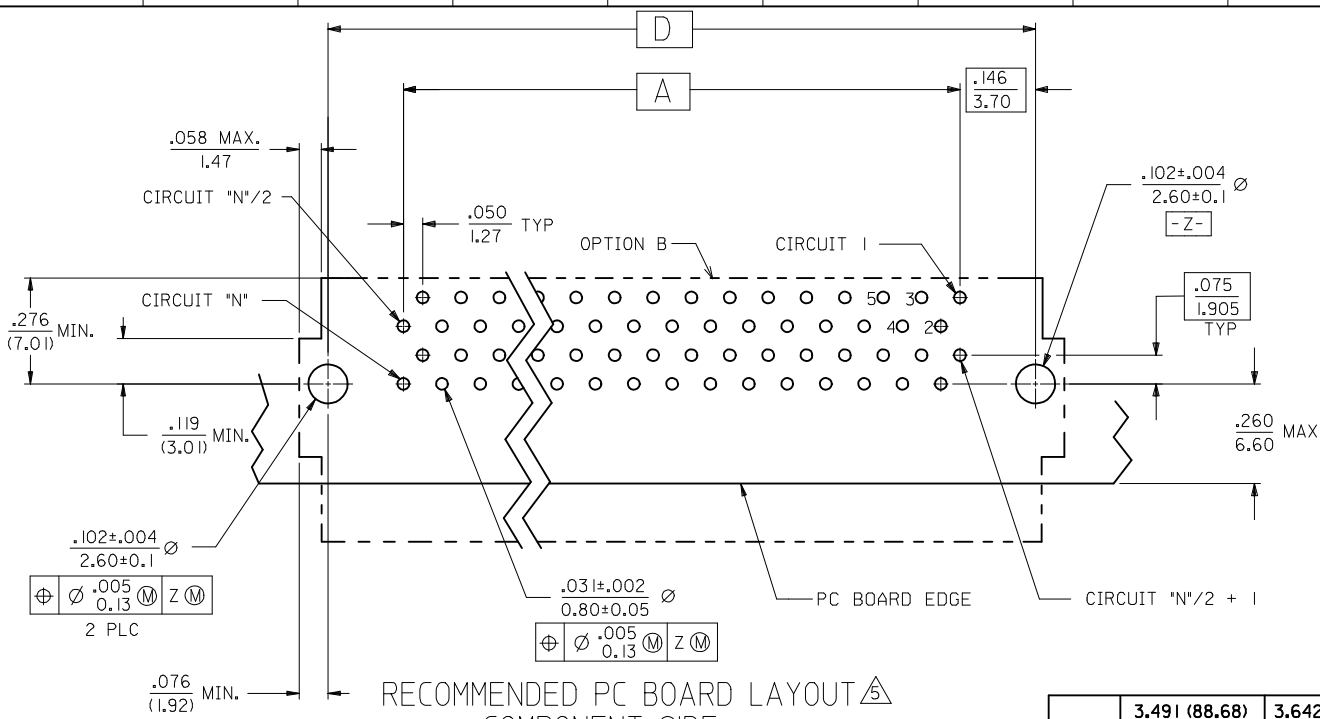
REV	DESCRIPTION	DATE	BY	CHKD	APPD
1	CHANGE MATERIAL	2008/12/19	DRWN:MS BARRA	CHKD:BBARKER	APPD:SMILLER
2		2009/01/06			

QUALITY SYMBOLS
0
0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± .010	± .004
3 PLACES	± .010	± .010
2 PLACES	± .025	± .010
1 PLACE	± .050	± .010
ANGULAR ± 1/2°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

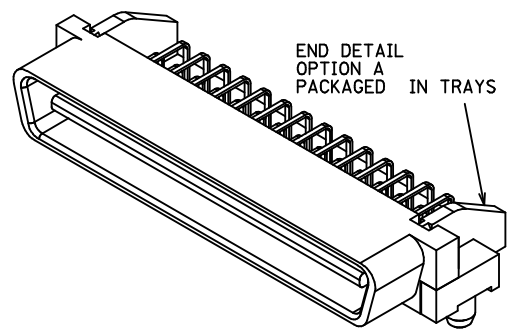
DIMENSION STYLE	IN/MM
DRAWN BY	DATE
RAN	1993/02/23
CHECKED BY	DATE
RAN	1993/02/23
APPROVED BY	DATE
CAB	1993/02/23
MATERIAL NO.	SEE TABLE
DOCUMENT NO.	SDA-71661-2***
SIZE	C

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

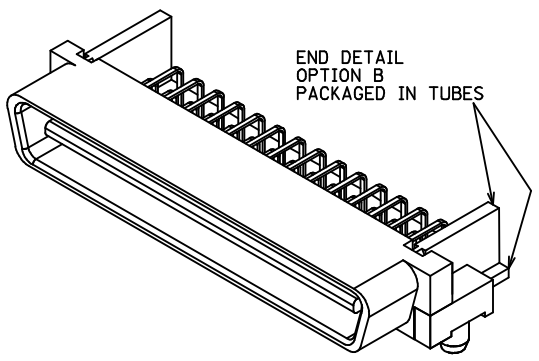


TRAY PACK
PER SPEC.
PK-70873-084*

END DETAIL
OPTION "A"



50 CIRCUIT ASSEMBLY SHOWN



.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

DESCRIPTION

QUALITY SYMBOLS
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± .005	± .0002
3 PLACES	± .005	± .010
2 PLACES	± 0.25	± .005
1 PLACE	± .005	± .005

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

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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