

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0716612340](#)
Status: **Active**
Overview: [ebbi_50d](#)
Description: 1.27mm (.050") Pitch EBBI™ 50D Plug, Right Angle, 40 Circuits, 3.18mm (.125") PC Tail Length

Documents:

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

Agency Certification

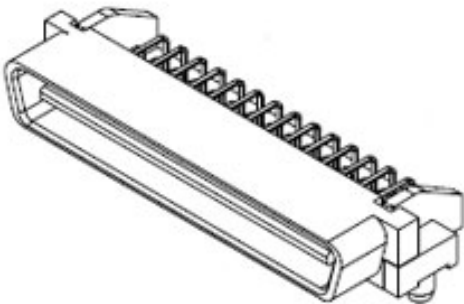
CSA LR19980
UL E29179

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) 40
Circuits (maximum) 40
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) 0.76
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



Not Reviewed

**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
Stackable
Surface Mount Compatible (SMC)
Temperature Range - Operating
Termination Interface: Style

Fully
No
No
-40°C to +105°C
Through Hole

Electrical

Current - Maximum per Contact
Voltage - Maximum

1A
30V

Solder Process Data

Lead-free Process Capability
Process Temperature max. C

SMC & Wave Capable (TH only)
235

Material Info

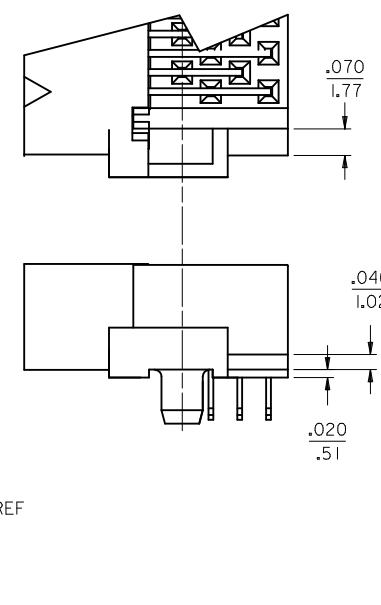
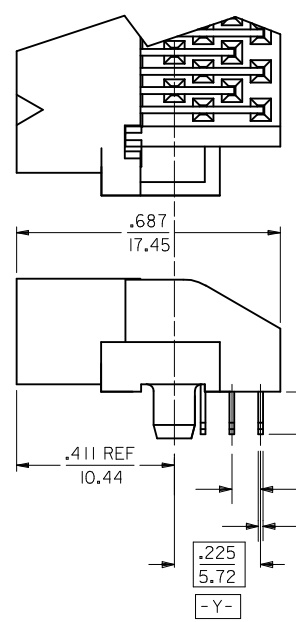
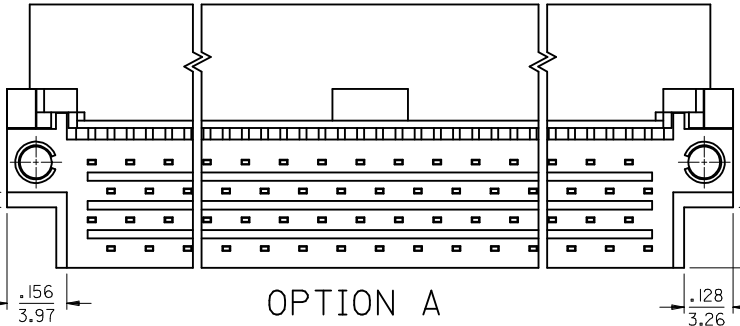
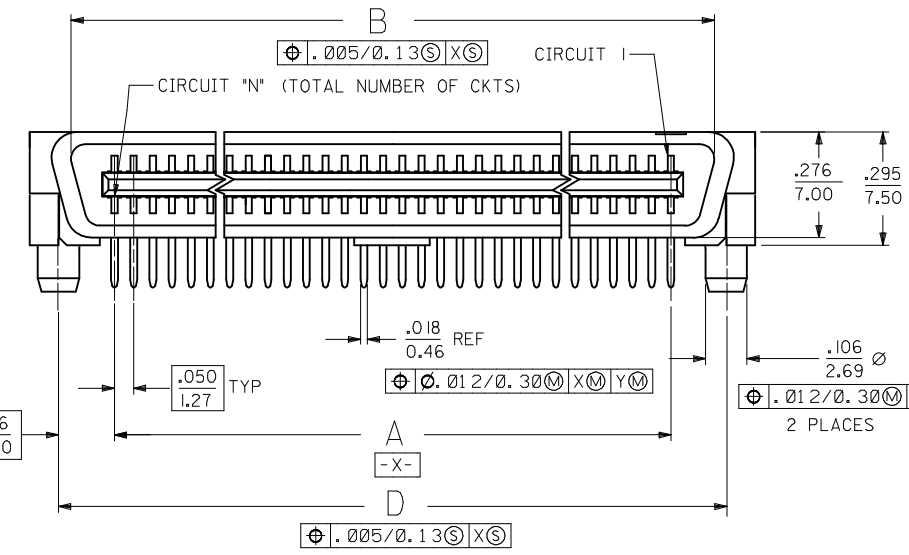
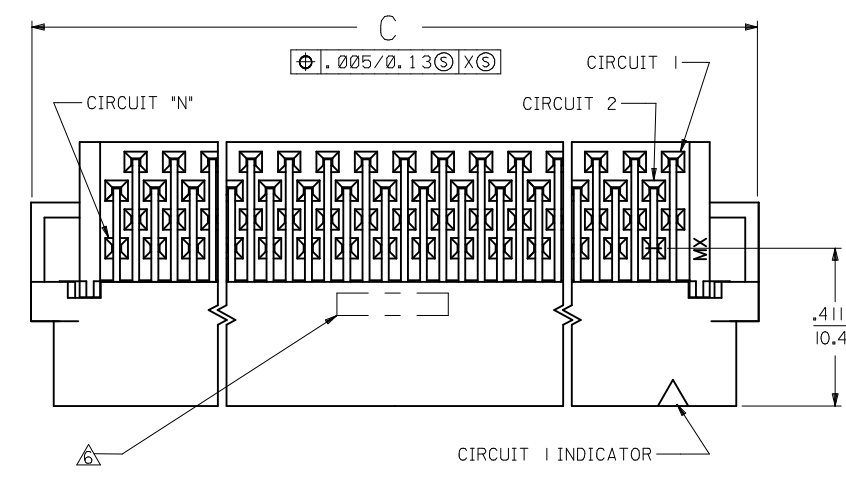
Reference - Drawing Numbers

Packaging Specification
Sales Drawing

PK-70873-084*
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: BLASK

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

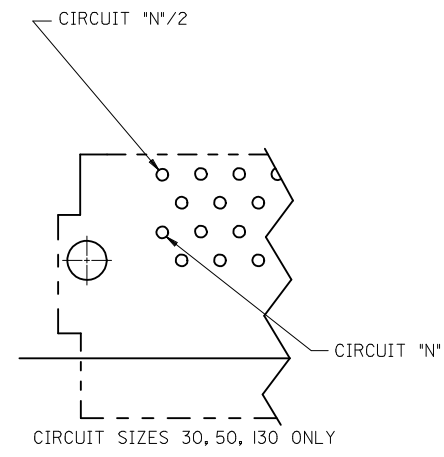
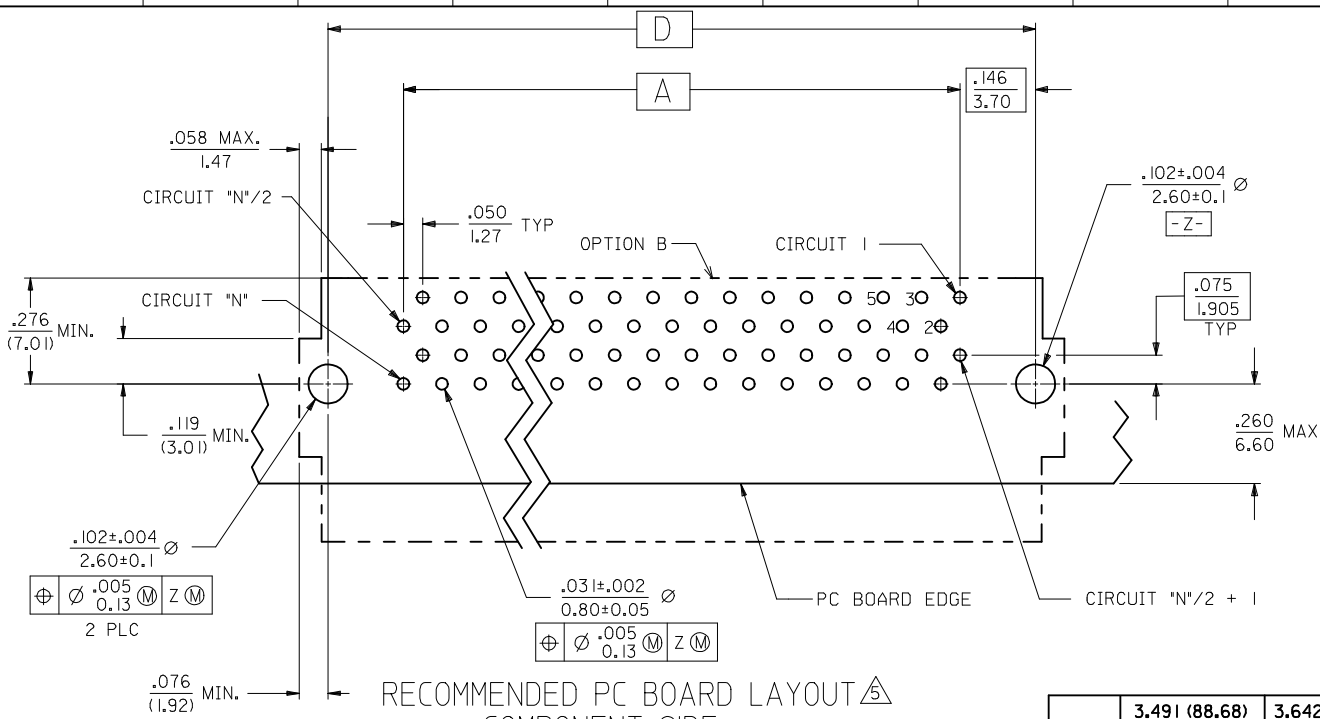
FOUR DIGIT DATE CODE (WK,YR) EXAMPLE 26 96 LOCATED IN AREA SHOWN

TOOLING STATUS: "X" INDICATES NO TOOLING AVAILABLE

CONTACT FACTORY FOR FURTHER INFORMATION

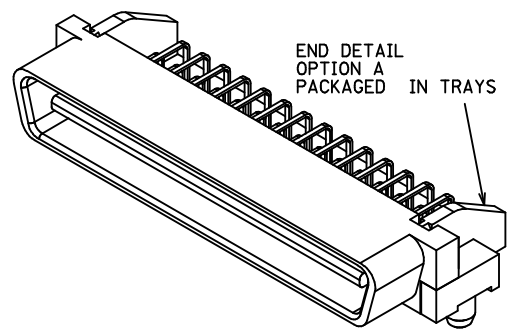
REV	DESCRIPTION	DATE	BY	CHKD	APPD
1	CHANGE MATERIAL	2008/12/19	DRWN:MS BARRA	CHKD:BBARKER	APPD:SMILLER
2		2009/01/06			

GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		mm	INCH	IN/MM	4:1	INCH	
4 PLACES	± .010	± .010	± .010	RAN	1993/02/23	SALES ASSEMBLY EBBI 50D RIGHT ANGLE PLUG CONNECTOR MOLEX INCORPORATED SDA-71661-2***	
3 PLACES	± .010	± .010	± .010	CHECKED BY	DATE		
2 PLACES	± .025	± .025	± .025	RAN	1993/02/23		
1 PLACE	± .025	± .025	± .025	APPROVED BY	DATE		
	ANGULAR ± 1/2°			CAB	1993/02/23		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		MATERIAL NO.		SHEET NO.	
				DOCUMENT NO.		1 OF 2	

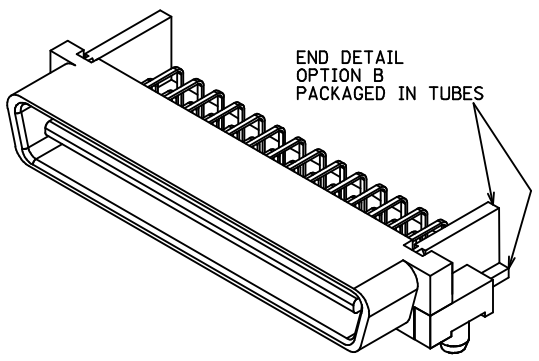


TRAY PACK
PER SPEC.
PK-70873-084*

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

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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