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Part Number: [0716612511](#)
Status: **Active**
Overview: [ebbi_50d](#)
Description: 1.27mm (.050") Pitch EBBI™ 50D Plug, Right Angle, Blind-Mate, 100 Circuits, 2.79mm (.110") PC Tail Length

Documents:

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

Agency Certification

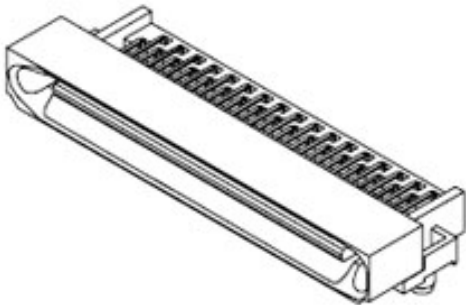
CSA	LR19980
UL	E29179

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)	100
Circuits (maximum)	100
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	Yes
Keying to Mating Part	None
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
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

Not Reviewed

**Halogen-Free
Status**

Not Reviewed

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](#)

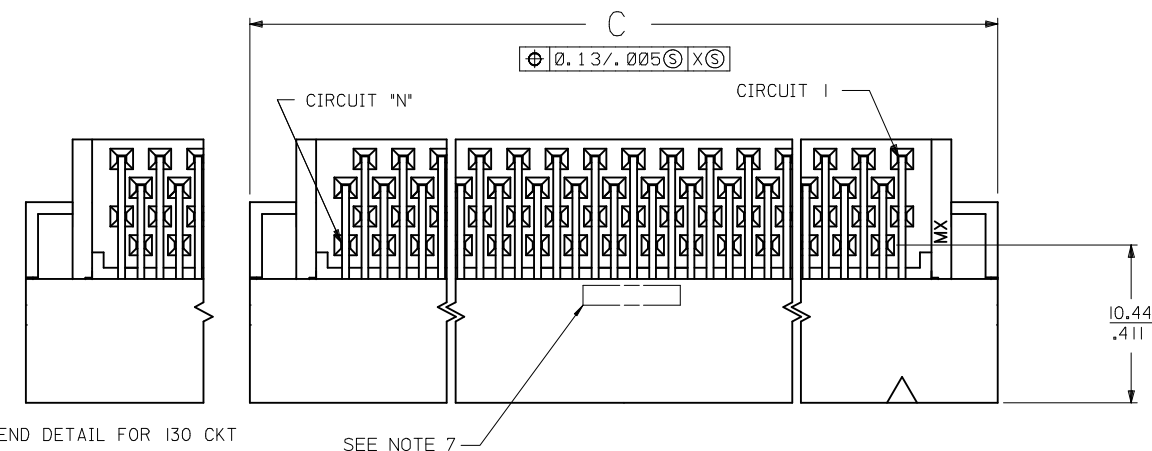
Mates With

EBBI™ 50D Receptacle [71660](#) , [87537](#)

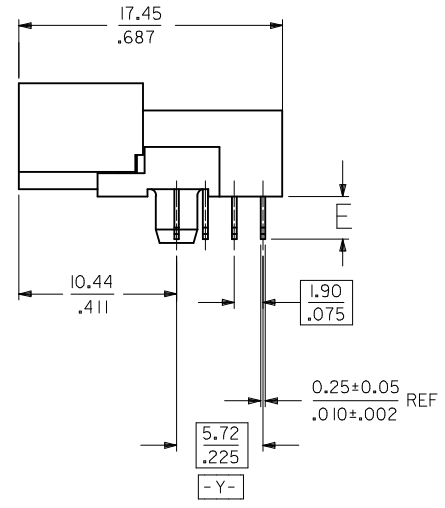
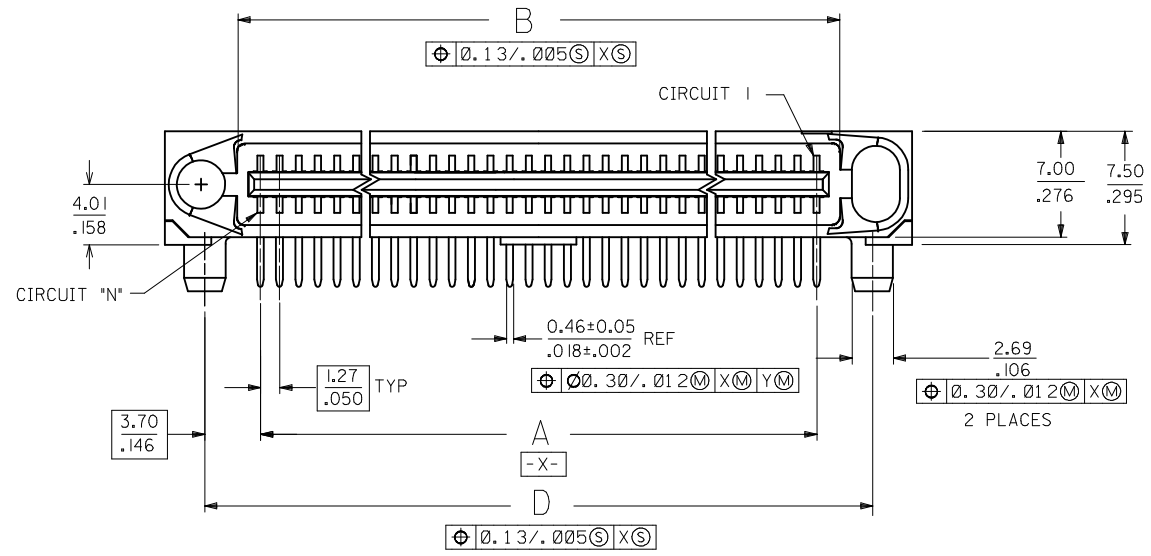
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole
Electrical	
Current - Maximum per Contact	1A
Voltage - Maximum	30V
Solder Process Data	
Lead-free Process Capability	SMC & Wave Capable (TH only)
Process Temperature max. C	235
Material Info	
Reference - Drawing Numbers	
Packaging Specification	PK-70873-084*
Product Specification	PS-71660
Sales Drawing	SDA-71661-25**

This document was generated on 05/31/2010

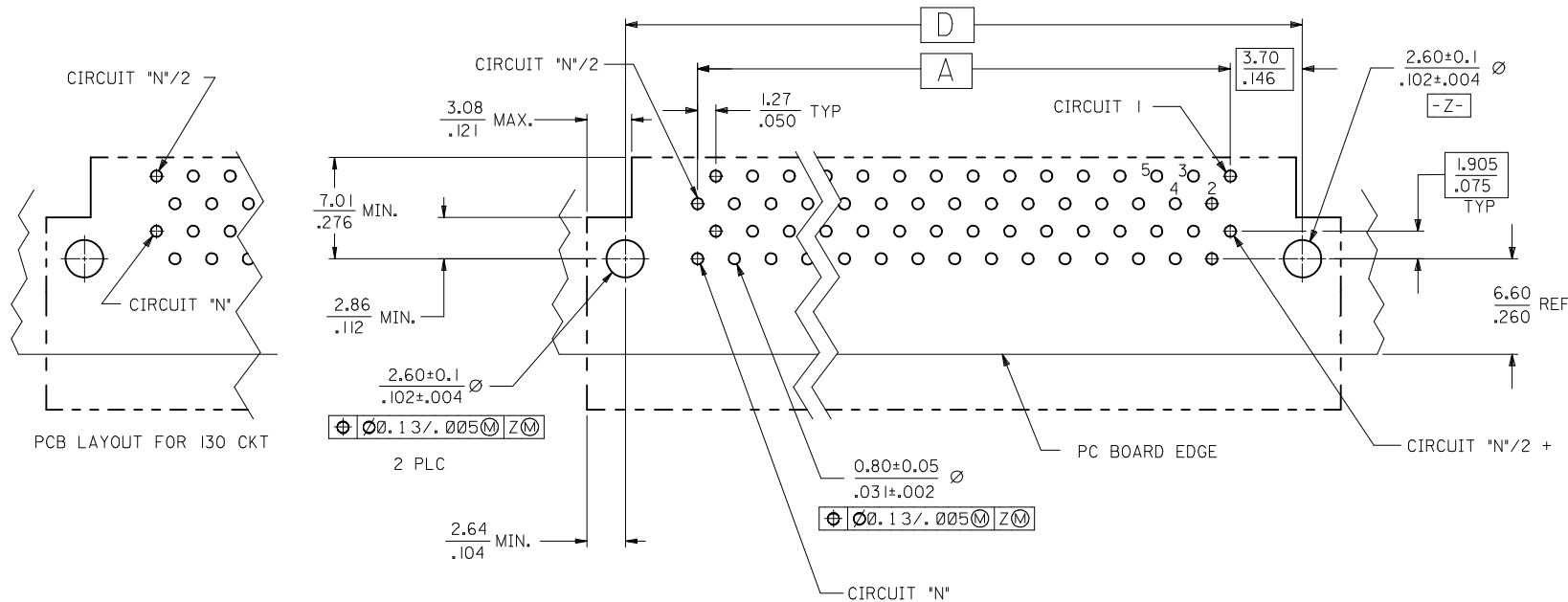
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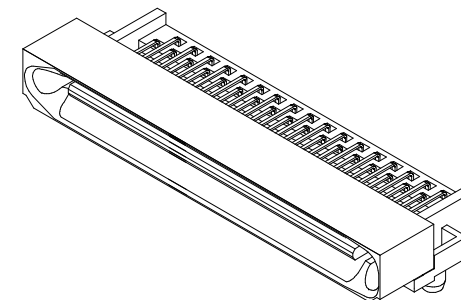
- NOTES:
1. MATERIAL:
HOUSING: LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0,
COLOR: BLACK
TERMINALS: BRASS
 2. FINISH:
TERMINAL: 0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECTIVE GOLD
IN CONTACT AREA; 1.27 MICROMETERS/50 MICROINCHES MINIMUM
SELECTIVE TIN IN THE PC TAIL AREA; NICKEL UNDERPLATE OVERALL.
 3. CONFORMS TO PRODUCT SPEC: PS-71660
 4. PRODUCT PACKAGED PER PK-70873-084*
 5. ASSEMBLY MATES WITH MOLEX P/N SDA-71660-7***
 6. RECOMMENDED PC BOARD THICKNESS IS 1.6 MM/.062 IN
 7. FOUR DIGIT DATE CODE (WK.YR.) EXAMPLE 26 96 LOCATED IN AREA SHOWN



CHANGE MATERIAL EC NO: UCP2009-1254 DRWN:MSIBARRA 2008/12/19 CHKD:BSMART 2009/01/06 APPR:SMILLER 2009/01/06 K		DESCRIPTION QUALITY SYMBOLS ▽=0 ▽=0 REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
					MM/IN		4:1		INCH			
					DRAWN BY		DATE		SALES ASSMBLY EBBI 50D RIGHT ANGLE BLIND MATE PLUG		MOLEX MOLEX INCORPORATED	
					CHECKED BY		DATE					
					APPROVED BY		DATE					
		CAB		1995/04/26		DOCUMENT NO.		SHEET NO.				
		SEE TABLE		SDA-71661-25**				1 OF 2				
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										



RECOMMENDED PC BOARD LAYOUT
COMPONENT SIDE
SEE NOTE 6



68 CIRCUIT ASSEMBLY SHOWN
SCALE 2:1

3.491 (88.67)	3.699 (93.95)	3.320 (84.33)	3.200 (81.28)	.110 (2.79)	130	71661-2513
2.741 (69.63)	2.949 (74.90)	2.570 (65.28)	2.450 (62.23)	.110 (2.79)	100	71661-2511
2.241 (56.92)	2.449 (62.20)	2.070 (52.586)	1.950 (49.53)	.110 (2.79)	80	71661-2580
1.941 (49.31)	2.149 (54.58)	1.770 (44.96)	1.650 (41.91)	.110 (2.79)	68	71661-2568
1.941 (49.31)	2.149 (54.58)	1.770 (44.96)	1.650 (41.91)	.125 (3.18)	68	71661-2518
1.241 (31.53)	1.449 (36.80)	1.070 (27.18)	.950 (24.13)	.110 (2.79)	40	71661-2540
D	C	B	A	E	CKT (*N*)	ITEM NUMBER

UPDATE REV LEVEL	REV	DESCRIPTION
EC NO: UCP2009-1254	K	
DRWN:MSBARRA		
CHKD:BSMART		
APPR:SMILLER		
2008/12/19		
2009/01/06		
2009/01/06		

QUALITY SYMBOLS

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	
MM/IN	
DRAWN BY	DATE
RAN	1995/04/26
CHECKED BY	DATE
RAN	1995/04/26
APPROVED BY	DATE
CAB	1995/04/26
MATERIAL NO.	
SEE TABLE	
SIZE	
C	

SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
TITLE SALES ASSMBLY EBBI 50D RIGHT ANGLE BLIND MATE PLUG		
 MOLEX INCORPORATED		
DOCUMENT NO. SDA-71661-25**		SHEET NO. 2 OF 2
AINS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		