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Part Number: [0716612580](#)
Status: **Active**
Overview: [ebbi_50d](#)
Description: 1.27mm (.050") Pitch EBBI™ 50D Plug, Right Angle, Blind-Mate, 80 Circuits, 2.79mm (.110") PC Tail Length

Documents:

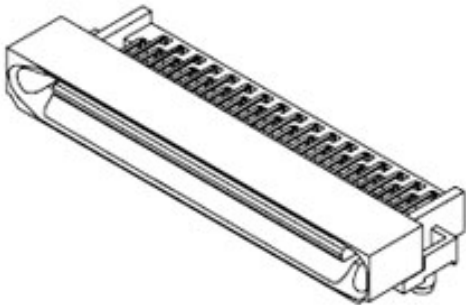
3D Model	Product Specification PS-71660 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

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)	80
Circuits (maximum)	80
Color - Resin	Black
Durability (mating cycles max)	2,000
First Mate / Last Break	No
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
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**

**REACH SVHC
Contains SVHC: No
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](#)

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

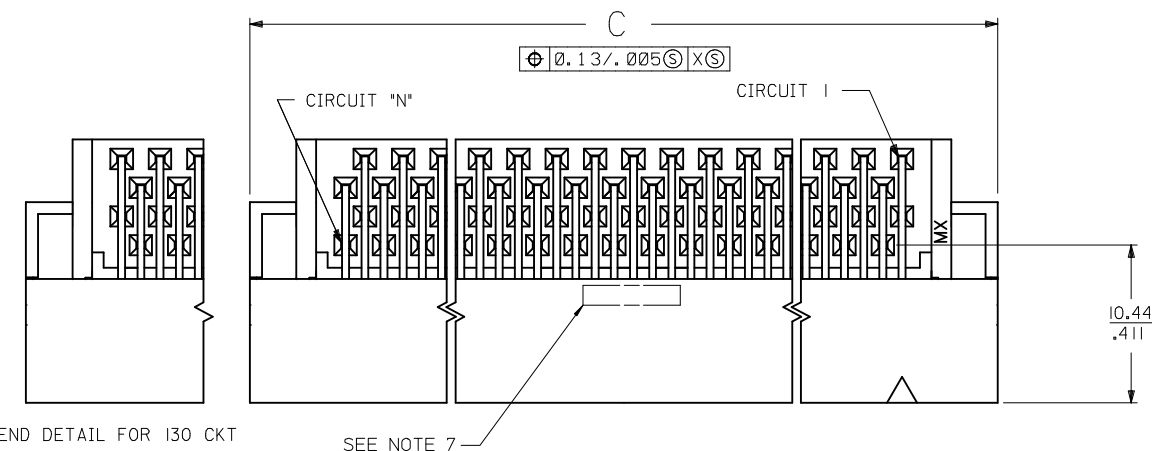
Material Info

Reference - Drawing Numbers

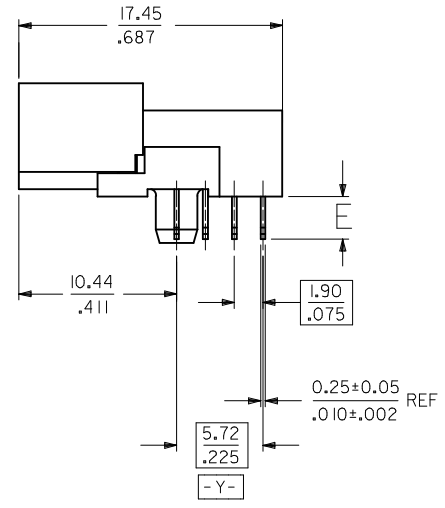
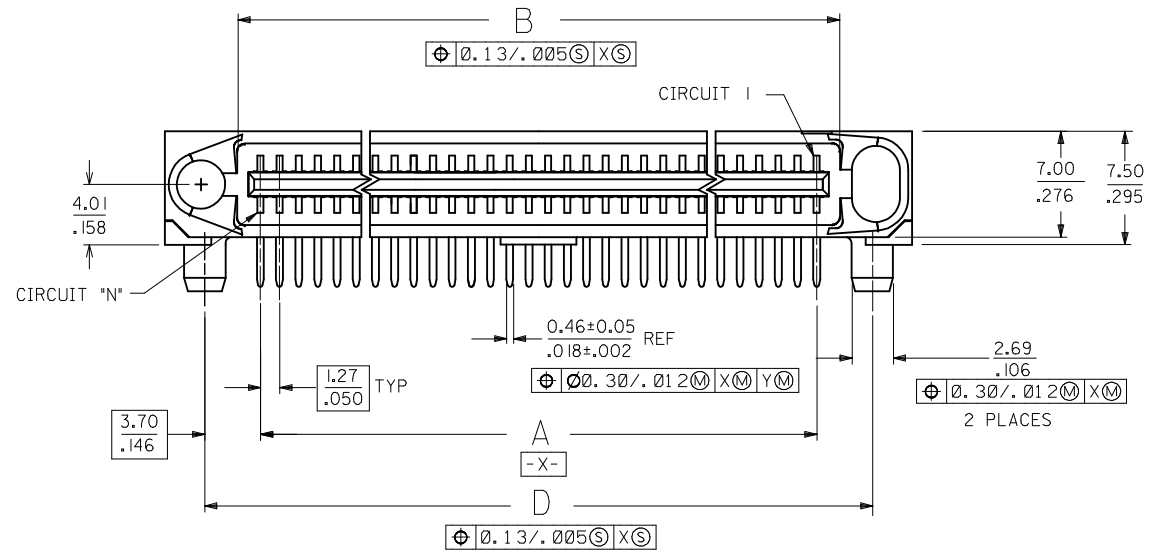
Packaging Specification	PK-70873-084*
Product Specification	PS-71660
Sales Drawing	SDA-71661-25**

This document was generated on 05/31/2010

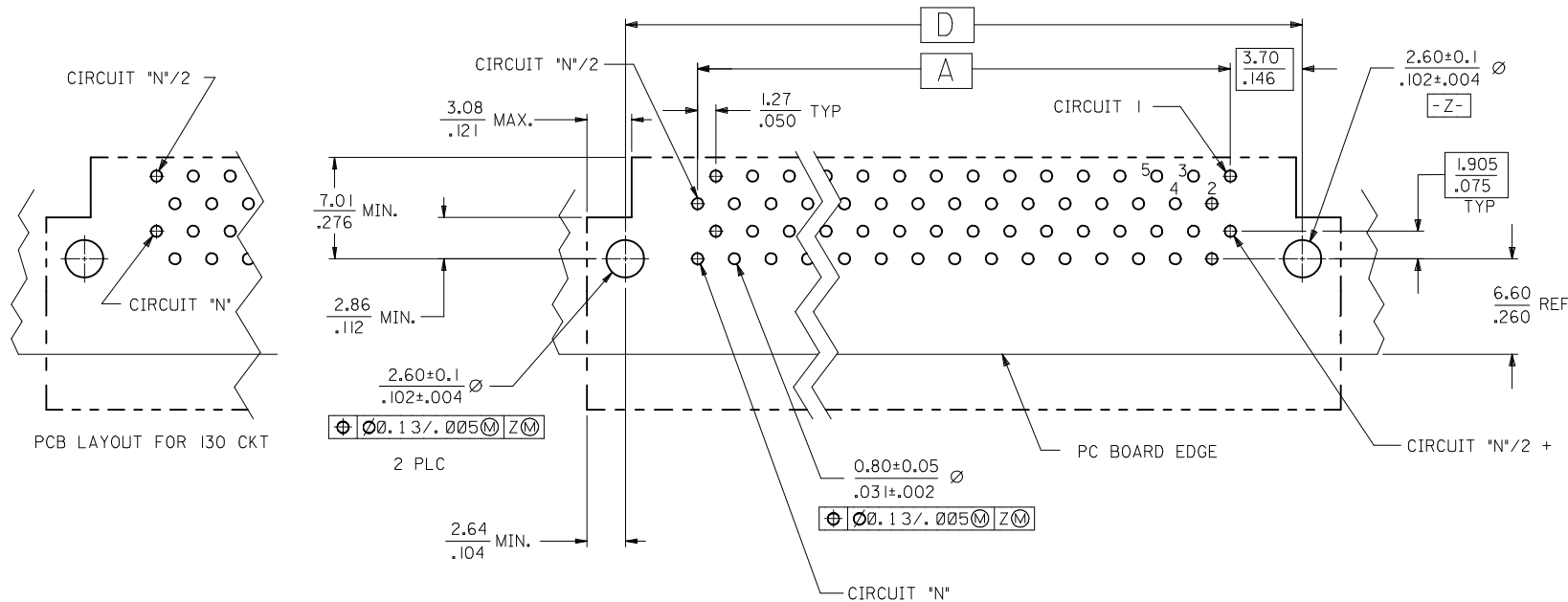
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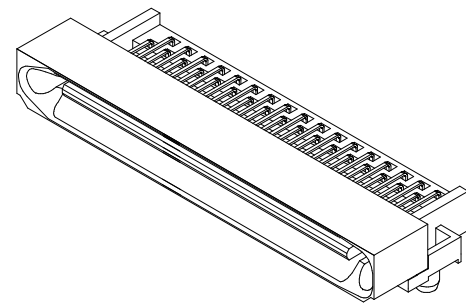
- NOTES:
1. MATERIAL:
HOUSING: LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0,
COLOR: BLACK
TERMINALS: BRASS
 2. FINISH:
TERMINAL: 0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECTIVE GOLD
IN CONTACT AREA; 1.27 MICROMETERS/50 MICROINCHES MINIMUM
SELECTIVE TIN IN THE PC TAIL AREA; NICKEL UNDERPLATE 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	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION 		
					mm	INCH	DRAWN BY DATE RAN 1995/04/26		TITLE SALES ASSMBLY EBBI 50D RIGHT ANGLE BLIND MATE PLUG			
				4 PLACES	± ---	± ---	CHECKED BY DATE RAN 1995/04/26					
				3 PLACES	± ---	± .010	APPROVED BY DATE CAB 1995/04/26		MOLEX MOLEX INCORPORATED			
2 PLACES	± 0.25	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SDA-71661-25**		SHEET NO. 1 OF 2					
REV				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE C		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 EC NO: UCP2009-1254 DRWN:MSBARRA 2008/12/19 CHKD:BSMART 2009/01/06 APPR:SMILLER 2009/01/06 REV K	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
		mm	INCH	DRAWN BY	DATE	SALES ASSMBLY EBBI 50D RIGHT ANGLE BLIND MATE PLUG MOLEX INCORPORATED SDA-71661-25**				
		4 PLACES	± ---	± ---	RAN					1995/04/26
		3 PLACES	± ---	± .010	CHECKED BY					DATE
		2 PLACES	± 0.25	± ---	RAN	1995/04/26				
		1 PLACE	± ---	± ---	APPROVED BY	DATE				
		ANGULAR ±1/2°		CAB	1995/04/26					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
				SEE TABLE				2 OF 2		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								