

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0716612540](#)
Status: **Active**
Overview: [ebbi_50d](#)
Description: 1.27mm (.050") Pitch EBBI™ 50D Plug, Right Angle, Blind-Mate, 40 Circuits, 2.79mm (.110") PC Tail Length

Documents:

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

Agency Certification

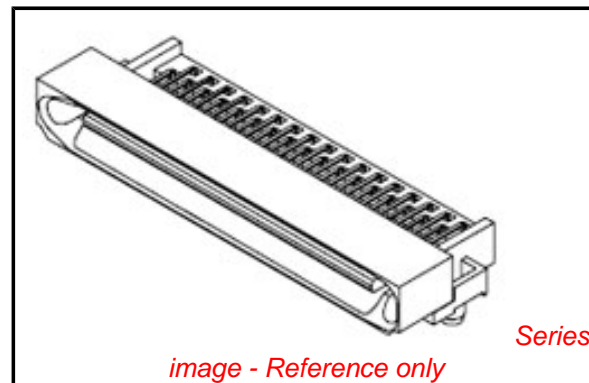
CSA LR19980
 UL E29179

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) 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 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



EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
Halogen-Free Status
Halogen-Free

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

Duration at Max. Process Temperature (seconds)	40
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	235

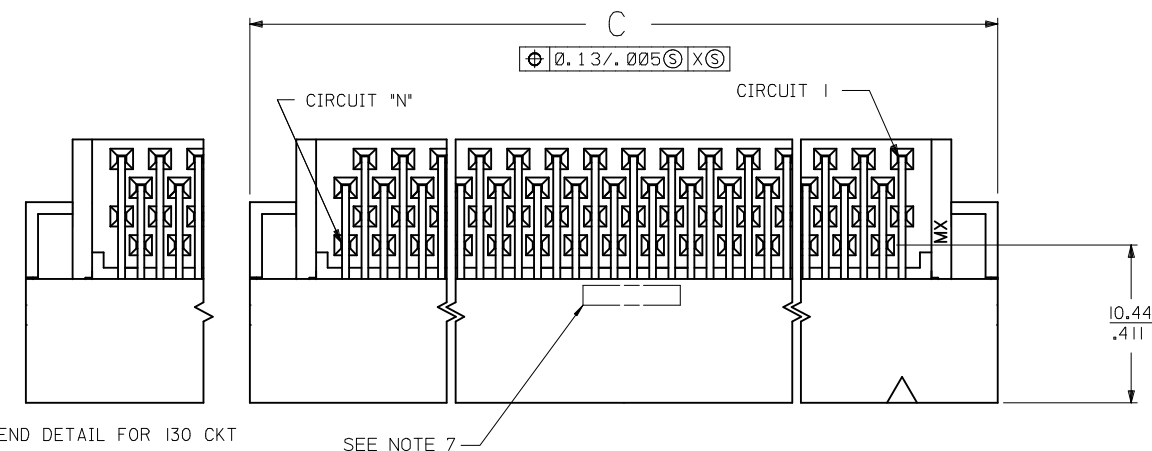
Material Info

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

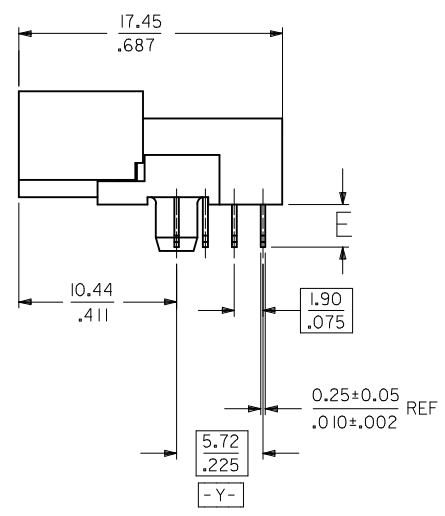
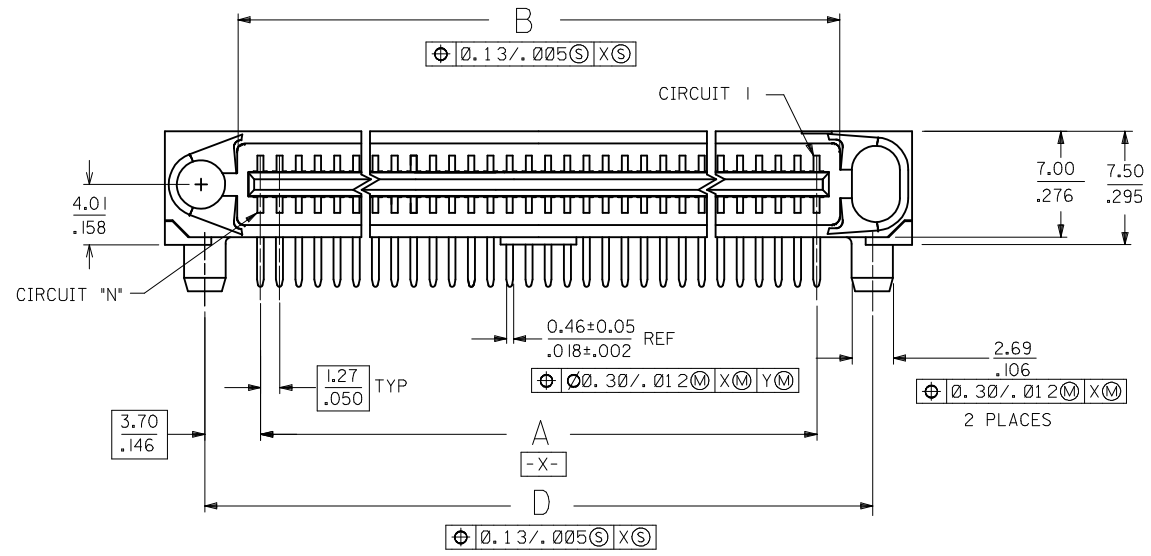
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



END DETAIL FOR 130 CKT

SEE NOTE 7

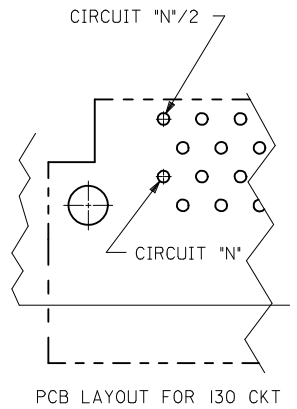
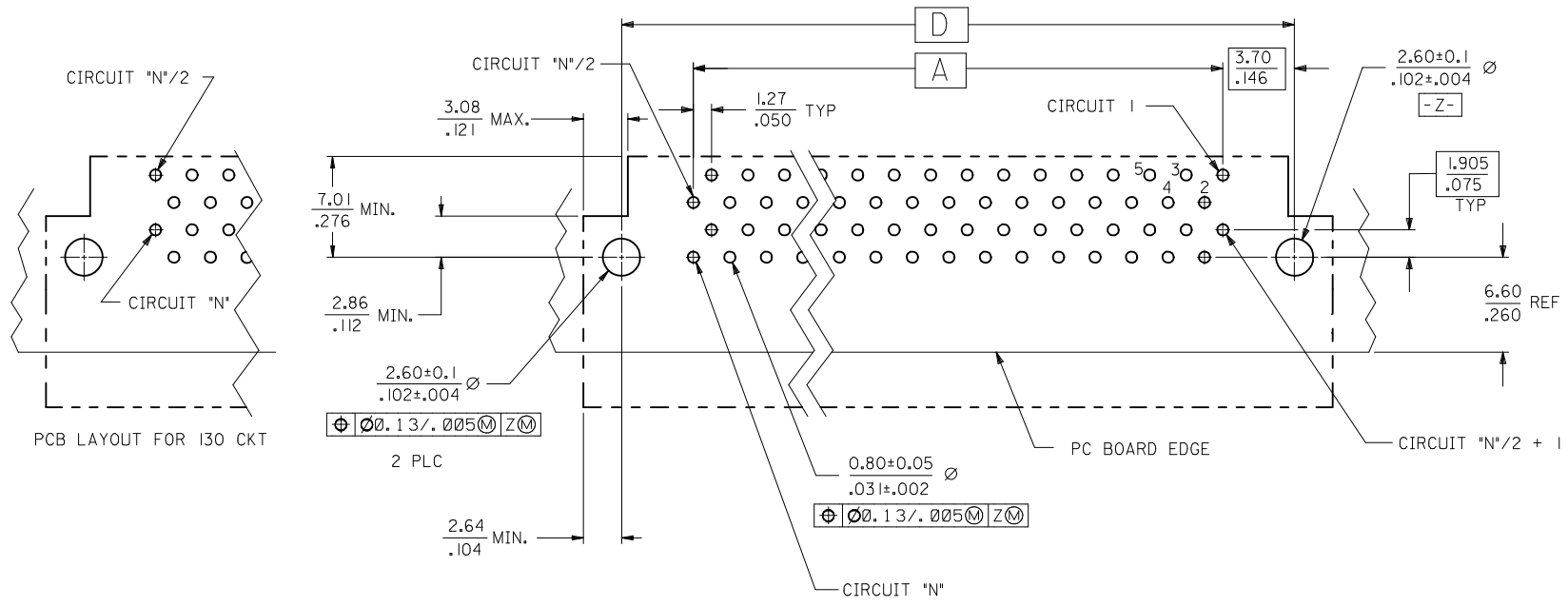
- NOTES:
1. MATERIAL:
HOUSING: LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0,
COLOR: BLACK
TERMINALS: BRASS
 2. FINISH:
TERMINAL: 0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECTIVE GOLD
IN CONTACT AREA; 1.27 MICROMETERS/50 MICROINCHES MINIMUM
SELECTIVE TIN IN THE PC TAIL AREA; NICKEL UNDERPLATE 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/0.62 IN
 7. FOUR DIGIT DATE CODE (WK.YR) EXAMPLE 26 96 LOCATED IN AREA SHOWN



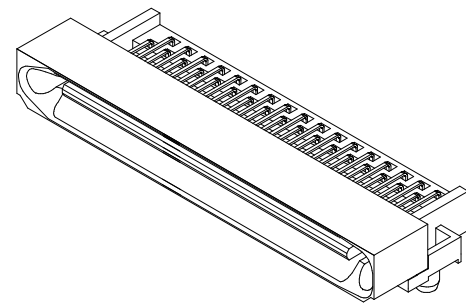
CHANGE MATERIAL EC NO: UCP2009-1254 DRWN:MSIBARRA 2008/12/19 CHKD:BSMART 2009/01/06 APPR:SMILLER 2009/01/06	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± --- 1 PLACE ± --- ± --- ANGULAR ± 1/2°	DIMENSION STYLE MM/IN DRAWN BY DATE RAN 1995/04/26 CHECKED BY DATE RAN 1995/04/26 APPROVED BY DATE CAB 1995/04/26	SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
	SALES ASSMBLY EBBI 50D RIGHT ANGLE BLIND MATE PLUG					
	MOLEX INCORPORATED					
	MATERIAL NO. SEE TABLE				DOCUMENT NO. SDA-71661-25**	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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	2008/12/19	QUALITY SYMBOLS
EC NO: UCP2009-1254	DRWINMSI BARRA	▽=0
CHKD:BSMART	2009/01/06	▽=0
APPR:SMILLER	2009/01/06	
DESCRIPTION		
REV		

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± .010	± .0004
3 PLACES	± .010	± .0004
2 PLACES	± 0.25	± .010
1 PLACE	± .010	± .0004

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM/IN		4:1	INCH	
DRAWN BY	DATE	TITLE		
RAN	1995/04/26	SALES ASSMBLY		
CHECKED BY	DATE	EBBI 50D RIGHT ANGLE		
RAN	1995/04/26	BLIND MATE PLUG		
APPROVED BY	DATE	MOLEX INCORPORATED		
CAB	1995/04/26	MATERIAL NO. SEE TABLE		
MATERIAL NO.		DOCUMENT NO.	SHEET NO.	
SEE TABLE		SDA-71661-25**	2 OF 2	

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION