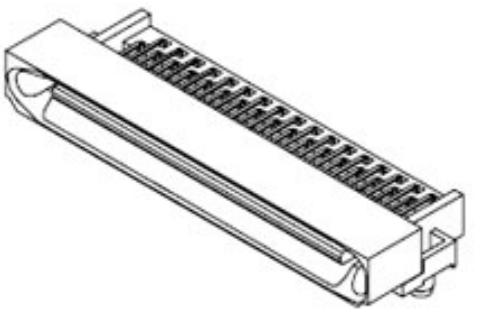
This document was generated on 05/31/2010

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



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-71660 (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

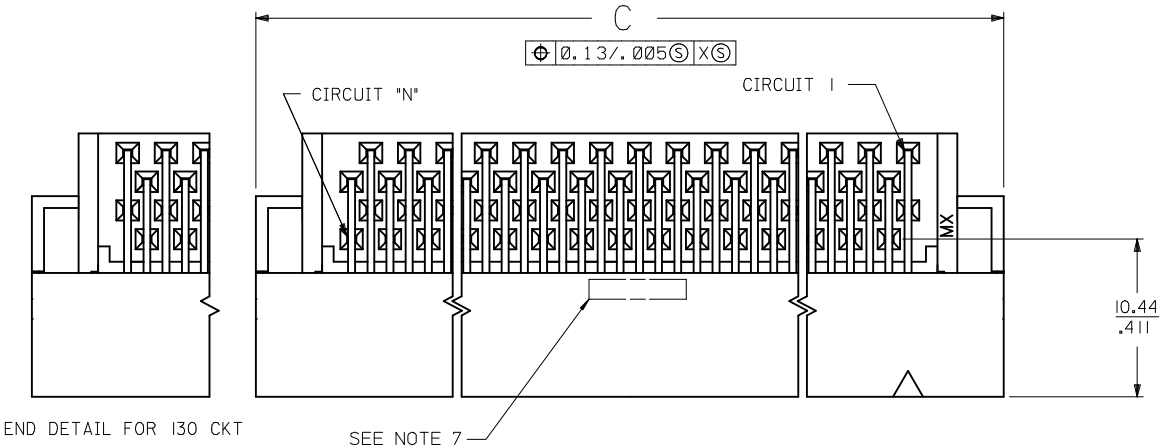
Duration at Max. Process Temperature (seconds)	40
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	235

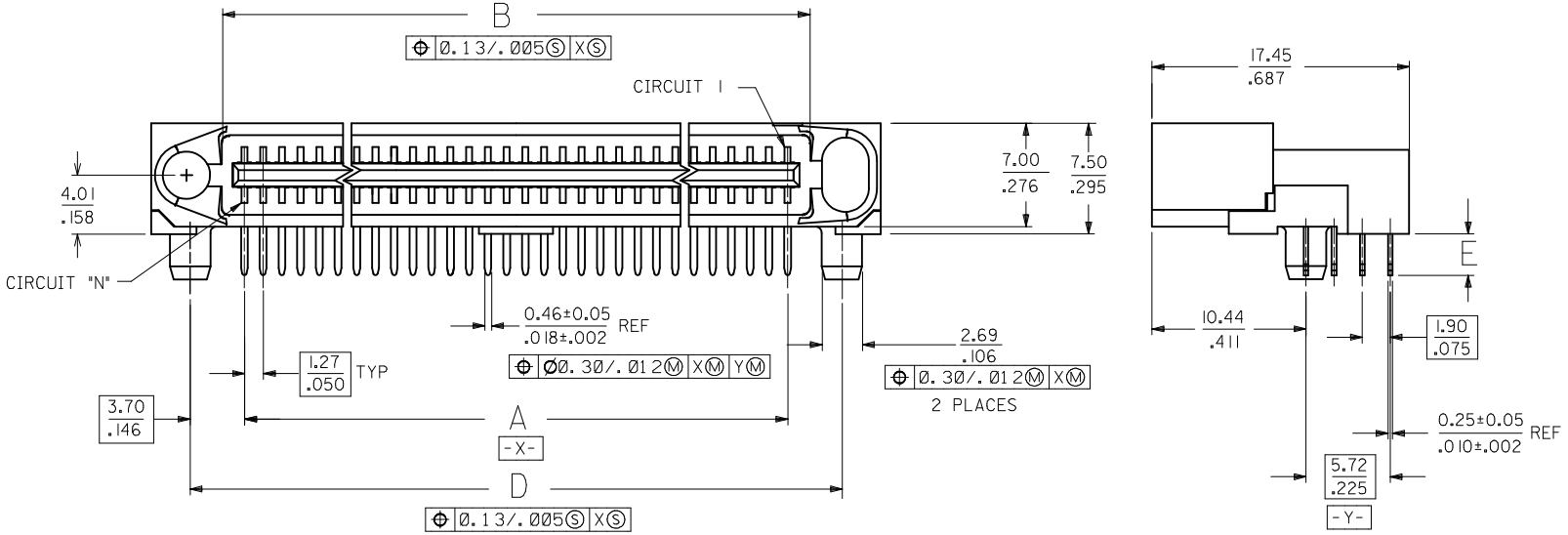
Material Info

Reference - Drawing Numbers

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

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 2008/12/19
DRWN:MS1BARRA 2009/01/06
CH'KD:BSMART
APPR:SMILLER 2009/01/06
DESCRIPTION
K
REV

QUALITY SYMBOLS
▼=0
▽C=0

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
SCALE: 4:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

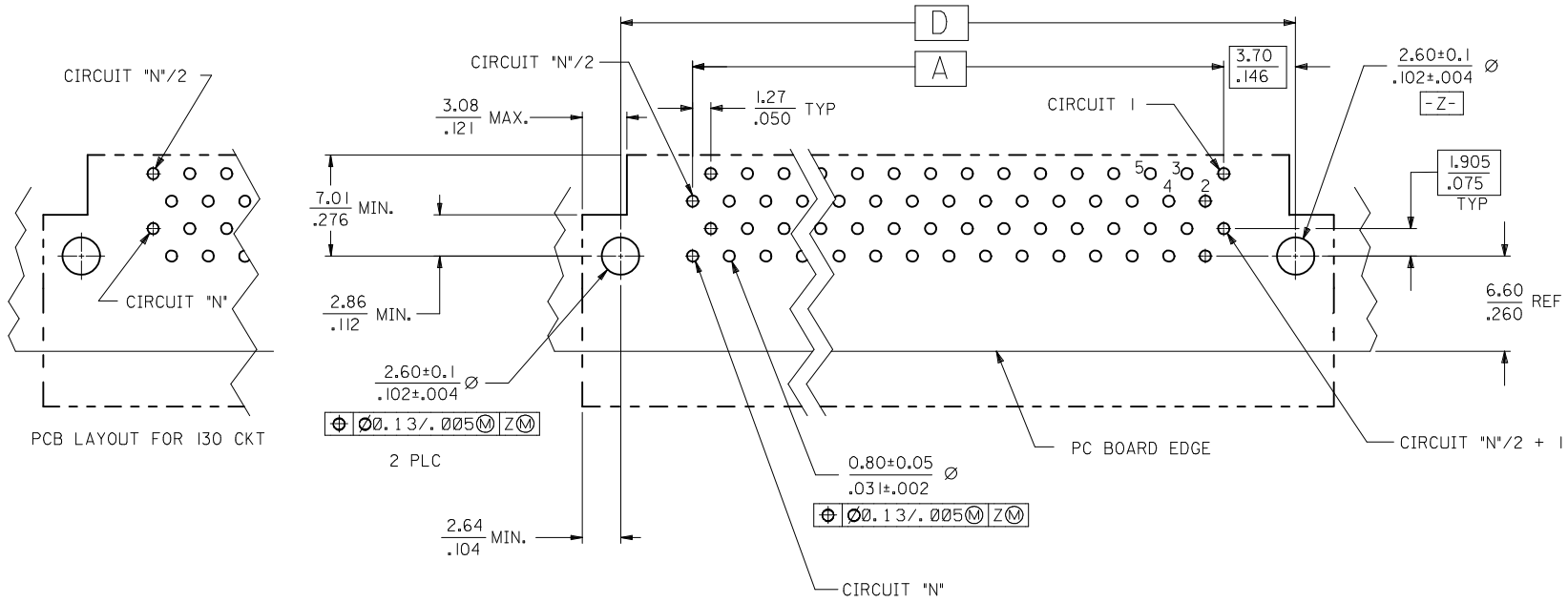
DRAWN BY	RAN
DATE	1995/04/26
CHECKED BY	RAN
DATE	1995/04/26
APPROVED BY	CAB
DATE	1995/04/26

TITLE: SALES ASSMBLY
EBBI 50D RIGHT ANGLE
BLIND MATE PLUG

MOLEX INCORPORATED

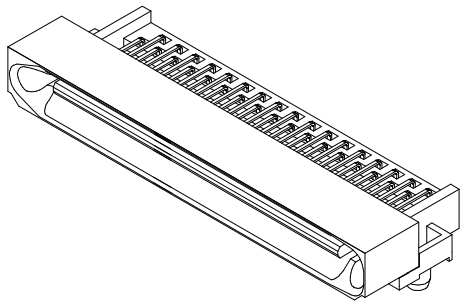
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-71661-25**
SHEET NO.: 1 OF 2
SIZE: C

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

D	C	B	A	E	CKT ("N")	ITEM NUMBER
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



68 CIRCUIT ASSEMBLY SHOWN
SCALE 2:1

UPDATE REV LEVEL
EC NO: UCP2009-1254 2008/12/19
DRWN:MS I BARRA 2009/01/06
CH'KD:BSMART 2009/01/06
APPR:SMILLER 2009/01/06
DESCRIPTION
REV
K

QUALITY SYMBOLS
▼=0
▽C=0

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
SCALE: 4:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	RAN	1995/04/26
CHECKED BY	RAN	1995/04/26
APPROVED BY	CAB	1995/04/26

MATERIAL NO.: SEE TABLE

TITLE: SALES ASSMBLY
EBBI 50D RIGHT ANGLE
BLIND MATE PLUG

MOLEX INCORPORATED

DOCUMENT NO.: SDA-71661-25**
SHEET NO.: 2 OF 2

SIZE: C

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