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Part Number: [0716612080](#)
Status: **Active**
Overview: [ebbi_50d](#)
Description: 1.27mm (.050") Pitch EBBI™ 50D Plug, Right Angle, 80 Circuits, 2.79mm (.110") PC Tail Length

Documents:

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

Agency Certification

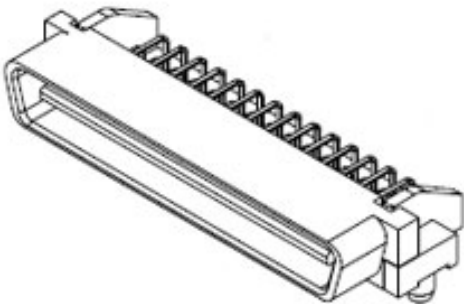
CSA	LR19980
UL	E29179

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)	80
Circuits (maximum)	80
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)	0.110 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
Contains SVHC: No
**Halogen-Free
Status**

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](#)

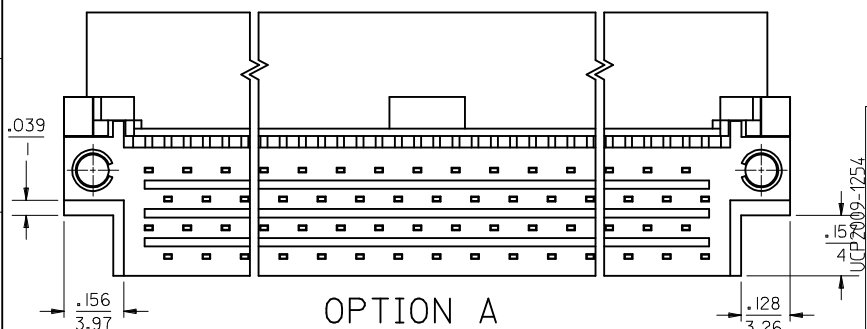
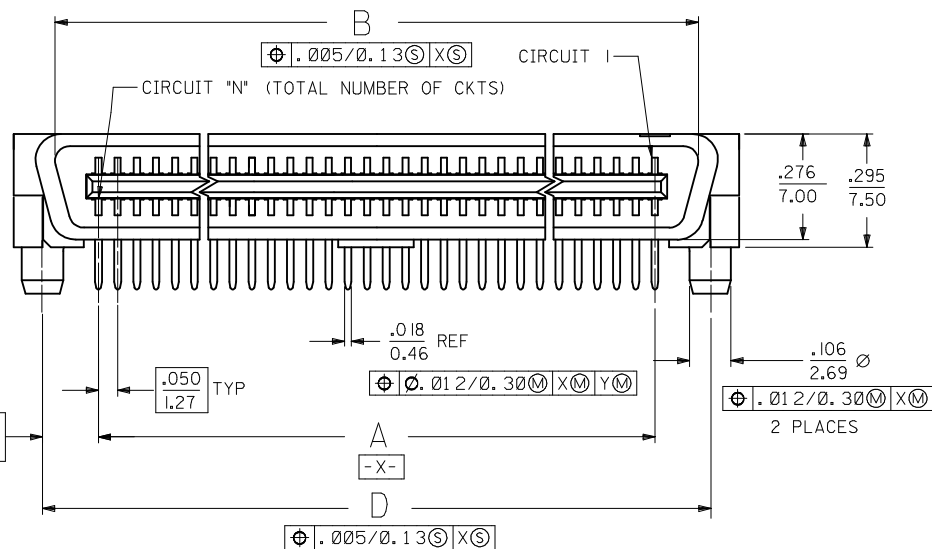
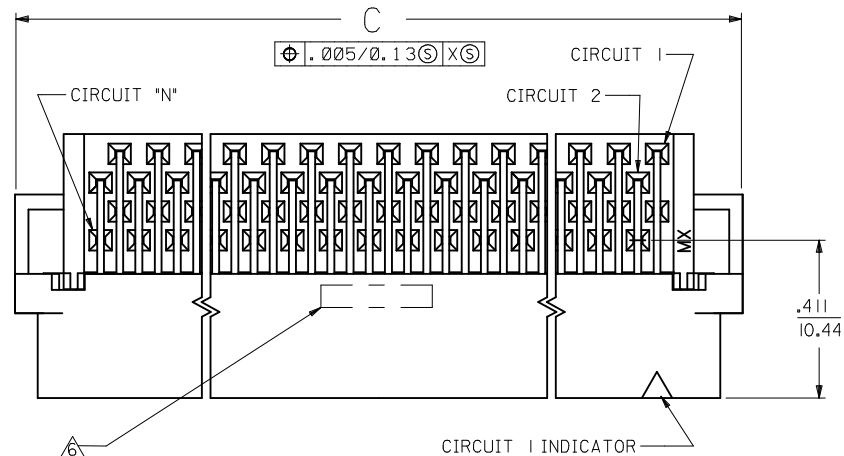
Mates With

EBBI™ 50D Receptacle [71660](#) , [87552](#)

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-71661-2***

This document was generated on 05/31/2010

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NOTES:

1. MATERIAL:

HOUSING: LIQUID CRYSTAL POLYMER (LCP), GLAS-FILLED, UL 94V-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. ASSEMBLY MATES WITH MOLEX P/N SDA-71660-****

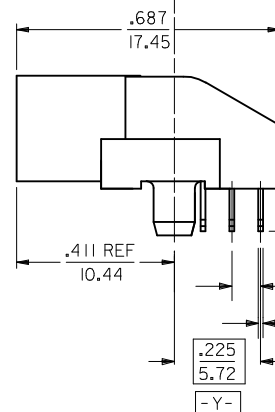
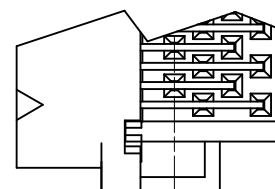
4. CONFORMS TO PRODUCT SPEC: PS-71660

RECOMMENDED PC BOARD THICKNESS IS .062/1.60

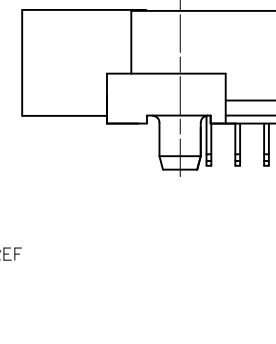
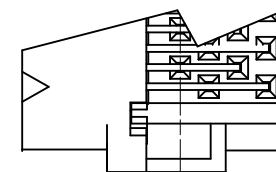
FOUR DIGIT DATE CODE (WK,YR) EXAMPLE 26 96 LOCATED IN AREA SHOWN

TOOLING STATUS: "X" INDICATES NO TOOLING AVAILABLE

CONTACT FACTORY FOR FURTHER INFORMATION



END DETAIL
OPTION A
(BOTH ENDS)



END DETAIL
OPTION B
(BOTH ENDS)

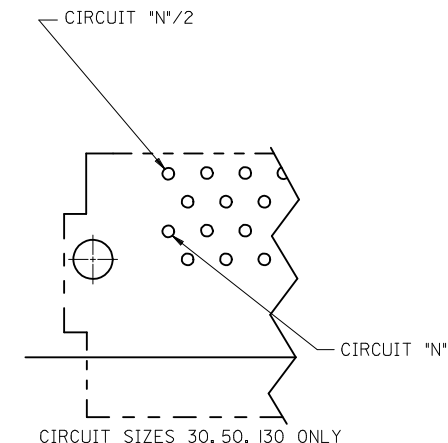
REV	DESCRIPTION	DATE	BY	CHKD	APPD
1	CHANGE MATERIAL	2008/12/19	DRWN:MS BARRA	CHKD:BBARKER	2009/01/06
2		2009/01/06	APPR:SMILLER		

QUALITY SYMBOLS	DESCRIPTION
0	
0	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ± .010	± .010
3 PLACES ± .010	± .010
2 PLACES ± .010	± .010
1 PLACE ± .010	± .010
ANGULAR ± 1/2°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE IN/MM	
DRAWN BY	DATE
RAN	1993/02/23
CHECKED BY	DATE
RAN	1993/02/23
APPROVED BY	DATE
CAB	1993/02/23
MATERIAL NO.	DOCUMENT NO.
SEE TABLE	SDA-71661-2***
SIZE	SHEET NO.
C	1 OF 2

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
4:1	INCH	
SALES ASSEMBLY EBBI 50D RIGHT ANGLE PLUG CONNECTOR		
MOLEX INCORPORATED		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



END DETAIL
OPTION "A"



.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
	.991 (25.18)	1.142 (29.00)	.925 (23.52)	.700 (17.78)	30		7166 I-2330
.110 (2.79)	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 2008/12/19 DRYNGMS IBARRA 2009/01/06 CHKD-BARKER 2009/01/06 APPR-SMILLER	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY RAN	DATE 1993/02/23	TITLE SALES ASSEMBLY EBBI 50D RIGHT ANGLE PLUG CONNECTOR MOLEX INCORPORATED	
			4 PLACES	± ---	± ---	CHECKED BY	DATE		
			3 PLACES	± ---	± .010	RAN	1993/02/23		
			2 PLACES	± 0.25	± ---	APPROVED BY	DATE		
			1 PLACE	± ---	± ---	CAB	1993/02/23		
			ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SDA-71661-2***		2 OF 2
	REV				SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			