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Part Number:

0716617268

Status:

Active

Overview:

ebbi_50d

Description:

1.27mm (.050") Pitch EBBI™ 50D Plug, Vertical, Blind Mate, 68 Circuits, 3.40mm (.134") PC Tail Length

Documents:

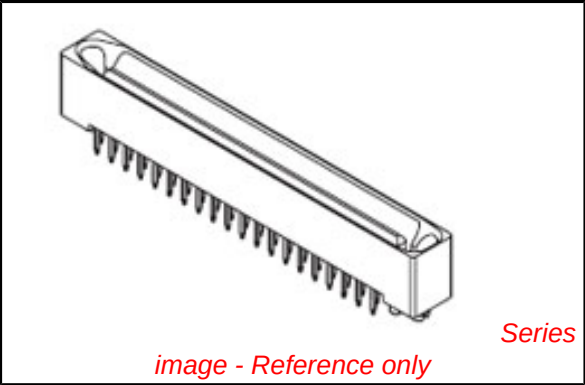
3D Model

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)	68
Circuits (maximum)	68
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	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.134 In
PC Tail Length (mm)	3.40 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
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	75
Plating min: Termination (µm)	1.91
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No



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

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

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-71660
Product Specification	PS-71660
Sales Drawing	SDA-71661-7***

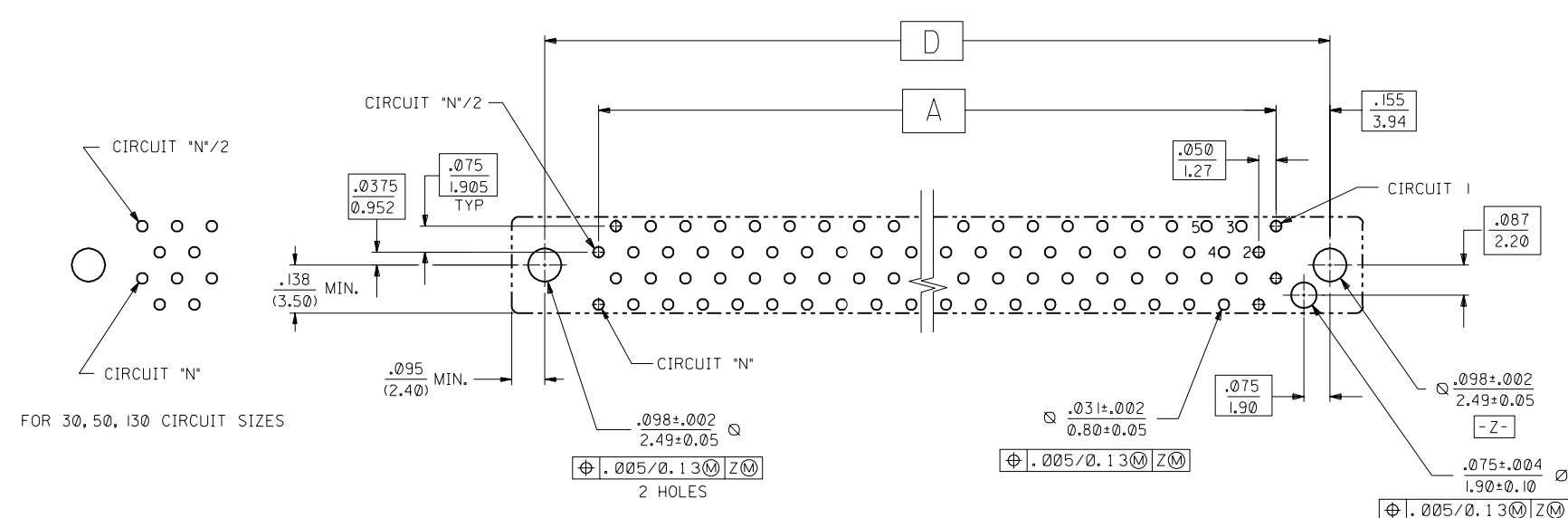
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1

DIMENSIONS SHOWN: METRIC (INCH) UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR = 1/2°		∇ = 0 ▽ = 0 REVISE ONLY ON CAD SYSTEM							
TITLE <div style="text-align: center; font-size: 1.2em; font-weight: bold;">SALES ASSEMBLY</div> <div style="text-align: center; font-size: 1.2em; font-weight: bold;">EBBI 50D, VERTICAL PLUG</div> <div style="text-align: center; font-size: 1.2em; font-weight: bold;">BLIND MATE CONNECTOR</div>		SHEET NO. DATE <div style="text-align: center; font-size: 1.2em;">1 OF 2 11/17/93</div>							
INCH METRIC <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">3 PLACE ± .005 ---</td> <td style="width: 50%;"></td> </tr> <tr> <td style="padding: 5px;">2 PLACE ± .01 ±</td> <td></td> </tr> <tr> <td style="padding: 5px;">1 PLACE --- ±</td> <td></td> </tr> </table>		3 PLACE ± .005 ---		2 PLACE ± .01 ±		1 PLACE --- ±		MOLEX INCORPORATED SHEET NO. DATE Lisle, IL 60532 U.S.A. 1 OF 2 11/17/93	
3 PLACE ± .005 ---									
2 PLACE ± .01 ±									
1 PLACE --- ±									
DRAFT WHEN APPLICABLE MUST REMAIN WITHIN DIMENSIONS		PART NO. DWG. NO. <div style="text-align: center; font-size: 1.5em; font-weight: bold;">SEE TABLE SDA-71661-7***</div>							
DWG. BY: RAN CHK'D. BY: RAN APP'D. BY: CAR ETL SCALE: 4:1		FILE NAME: 571661X7 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

13		12		11		10		9		8		7		6		5		4		3		2		1	
ITEM NUMBER		CKT ("N")		A		B		C		D		E													
71661-7030		30		.700 (17.78)		.820 (20.83)		1.199 (30.45)		1.010 (25.65)		.110 (2.79)													
71661-7040		40		.950 (24.13)		1.070 (27.18)		1.449 (36.80)		1.260 (32.00)															
71661-7050		50		1.200 (30.48)		1.320 (33.53)		1.699 (43.15)		1.510 (38.35)															
71661-7060		60		1.450 (36.83)		1.570 (39.88)		1.949 (49.50)		1.760 (44.70)															
71661-7068		68		1.650 (41.91)		1.770 (44.96)		2.149 (54.58)		1.960 (49.78)															
71661-7080		80		1.950 (49.53)		2.070 (52.58)		2.449 (62.20)		2.260 (57.40)															
71661-7100		100		2.450 (62.23)		2.570 (65.28)		2.949 (74.90)		2.760 (70.10)															
71661-7120		120		2.950 (74.93)		3.070 (77.98)		3.449 (87.60)		3.260 (82.80)															
71661-7130		130		3.200 (81.28)		3.320 (84.33)		3.699 (93.95)		3.510 (89.15)															
71661-7230		30		.700 (17.78)		.820 (20.83)		1.199 (30.45)		1.010 (25.65)		.134 (3.40)													
71661-7240		40		.950 (24.13)		1.070 (27.18)		1.449 (36.80)		1.260 (32.00)															
71661-7250		50		1.200 (30.48)		1.320 (33.53)		1.699 (43.15)		1.510 (38.35)															
71661-7260		60		1.450 (36.83)		1.570 (39.88)		1.949 (49.50)		1.760 (44.70)															
71661-7268		68		1.650 (41.91)		1.770 (44.96)		2.149 (54.58)		1.960 (49.78)															
71661-7280		80		1.950 (49.53)		2.070 (52.58)		2.449 (62.20)		2.260 (57.40)															
71661-7300		100		2.450 (62.23)		2.570 (65.28)		2.949 (74.90)		2.760 (70.10)															
71661-7320		120		2.950 (74.93)		3.070 (77.98)		3.449 (87.60)		3.260 (82.80)															
71661-7330		130		3.200 (81.28)		3.320 (84.33)		3.699 (93.95)		3.510 (89.15)															



RECOMMENDED PC BOARD LAYOUT 
COMPONENT SIDE
FOR 40, 60, 68, 80, 100, 120 CIRCUIT SIZES

DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR ± 1/2°		MFG. SH. REV. LTR. REVISIONS	
INCH METRIC 3 PLACE ± .005 --- 2 PLACE ± --- ± 0.13 1 PLACE --- ±		TITLE SALES ASSEMBLY EBBI 50D, VERTICAL PLUG BLIND MATE CONNECTOR	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SHEET NO. 2 DATE 11/17/93	
DRAWN BY RAN CHK'D BY RAN APP'D BY CAB SCALE 4:1		PART NO. SEE TABLE 135LJILL 60532 DIV. C	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SDA-71661-7***	