

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0050361706

Status:

Active

Overview:

[minifit_jr](#)

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, without Drain Holes, 8 Circuits, PA Polyamide Nylon 6/6, UL 94V-0, Tin (Sn) Over Nickel (Ni) Plating, Glow Wire Compatible

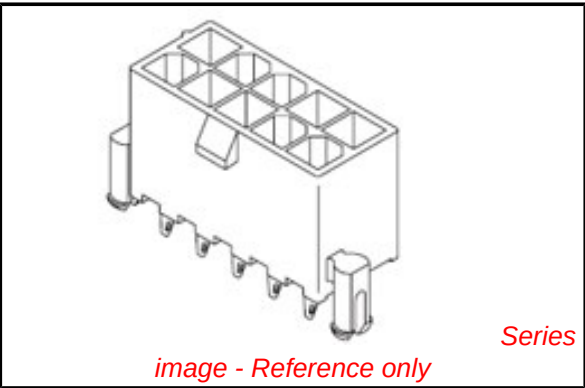
Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification	
CSA	LR19980
TUV	R72081037
UL	E29179
General	
Product Family	PCB Headers
Series	5566
Application	Wire-to-Board
Comments	Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit Plus HCS™ Crimp Terminal Crimped to to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. High Temperature, Square Pin, Solder Type
Overview	minifit_jr
Product Name	Mini-Fit Jr.™
Physical	
Breakaway	No
Circuits (Loaded)	8
Circuits (maximum)	8
Color - Resin	Black
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	Yes
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.138 In
PC Tail Length (mm)	3.50 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)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm



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

[5566Series](#)

Mates With

[5557](#) Mini-Fit Jr.™ Receptacle Housing

Pitch - Term. Interface (in)	0.165 In
Pitch - Term. Interface (mm)	4.20 mm
Plating min: Mating (µin)	100
Plating min: Mating (µm)	2.54
Plating min: Termination (µin)	50
Plating min: Termination (µm)	1.27
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

Electrical

Current - Maximum per Contact	13A
Voltage - Maximum	600V

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235

Material Info

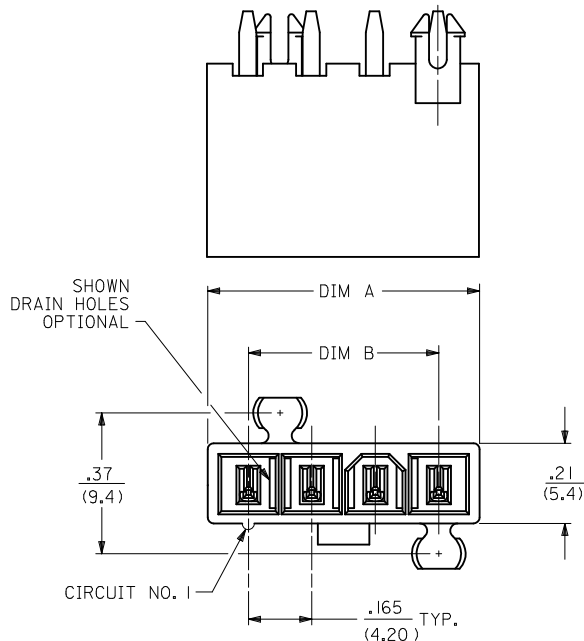
Old Part Number	5566-08A2S-225
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Reference - Drawing Numbers

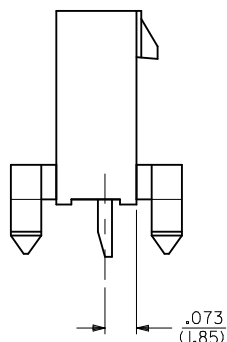
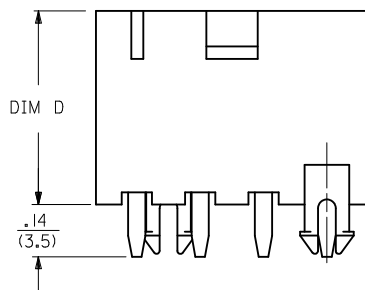
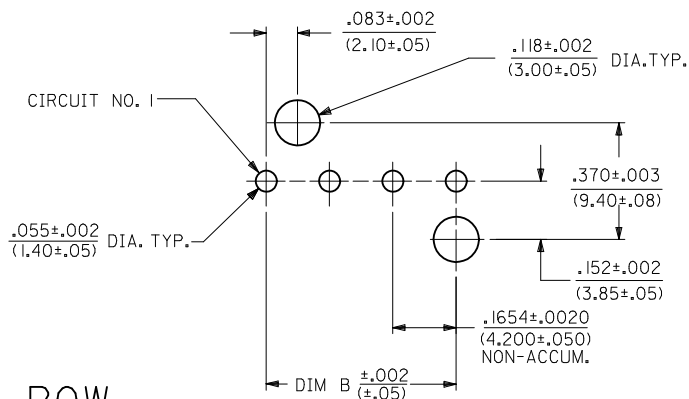
Packaging Specification	PK-5566-001
Sales Drawing	SD-5566-225

This document was generated on 05/21/2010
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	13	12	11	10	9	8	7	6	5	4	3	2	1
CKT SIZE	DIM A	DIM B	DIM D										
3	.54 (13.8)	.331 (8.40)	.49 (12.5)										
4	.71 (18.0)	.496 (12.60)	.50 (12.8)										
5	.87 (22.2)	.661 (16.80)	.50 (12.8)										



- NOTES:
- MATERIALS:
HOUSING:
225=NYLON (PA6), UL94 V-0, COLOR: BLACK, IEC 60335-1, 4th EDITION GLOW WIRE CAPABLE
225N=NYLON (PA6), UL94V-0, COLOR: WHITE, IEC 60335-1, 4th EDITION GLOW WIRE CAPABLE
TERMINALS:
BRASS
2. TERMINAL PLATING:
S=.000100/(0.00254) MIN. BRIGHT TIN OVER
.000050/(0.00127) MIN. NICKEL
3. PRODUCT SPECIFICATION: PS-5556-001
4. PACKAGING: SEE CHARTS
5. PART MATES WITH MINI-FIT JR. RECEPTACLE NO. 5557.
6. MOUNTING OPTIONS:
BLANK=DUAL ROW WITHOUT PEGS
2=DUAL ROW WITH MOUNTING PEGS
3=SINGLE ROW WITH MOUNTING PEGS
7. PART IS NOT DESIGNED FOR CURRENT SHARING.
8. PARTS ARE NOT DESIGNED TO BE MATED OR UN-MATED WHILE CIRCUITS ARE LIVE.
9. LOCATION OF .118±.002/(3.00±0.05) DIAMETER HOLES ON P.C. BOARD IS FOR OPTIONAL PEGS.
10. ANTI-SHINGLING RIB MAY OR MAY NOT APPEAR ON HOUSINGS.
11. PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002 WITH THE EXCEPTION OF DISCOLORATION, FLASH AND SINK ON THE HOUSING MEET CLASS "C" REQUIREMENTS.'



RECOMMENDED HOLE LAYOUT FOR
.070/(1.78) MAX. THICK P.C. BOARD
VIEWED FROM COMPONENT SIDE

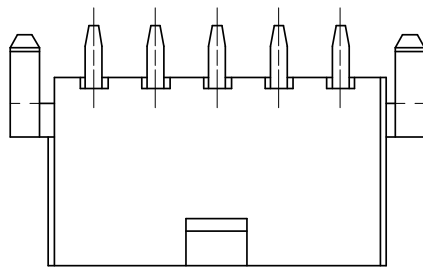
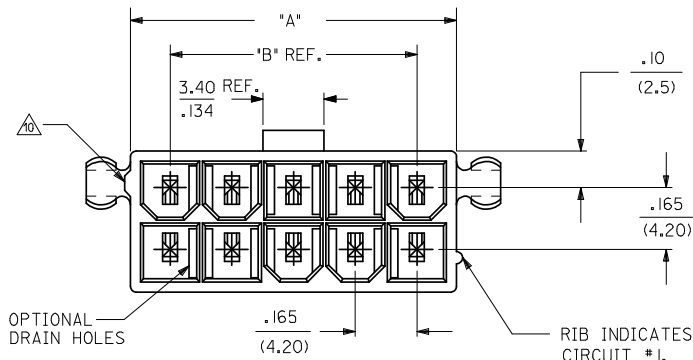
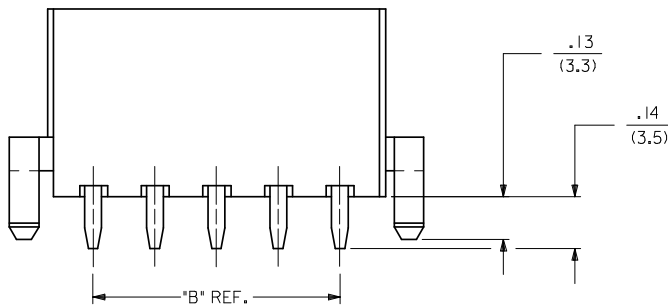
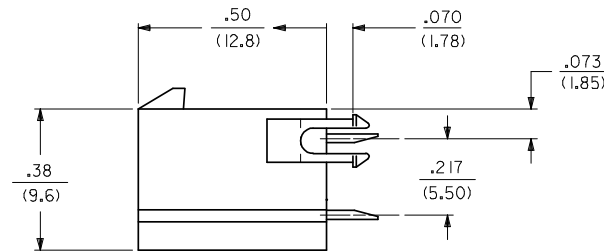
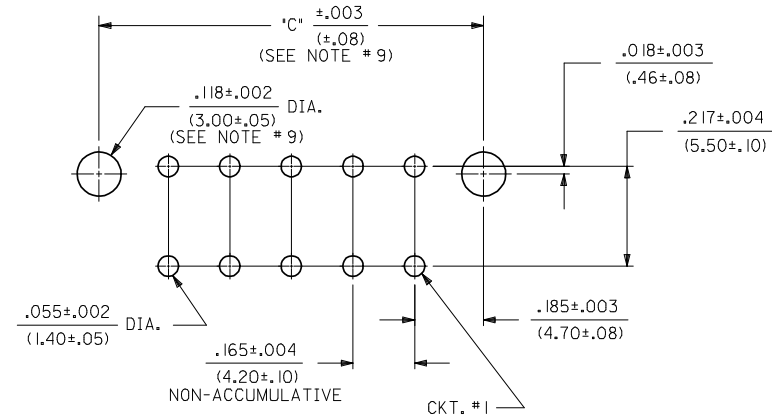
4	A2
3	A2
2	A
1	A2
SHT	REV

SEE SHT. 2 FOR DUAL ROW
* THE CHART FOR SINGLE ROW PRODUCT IS ON PAGE 3

LEGEND:

BASE NUMBER	5566 - N
CIRCUIT SIZE	*
ASSEMBLY TYPE	*
A - W/O DRAIN HOLES	*
B - WITH DRAIN HOLES	*
MOUNTING OPTION (SEE NOTE 6.)	-
PLATING (SEE NOTE 2.)	*
HOUSING MAT'L. (SEE NOTE 1.)	*

ADD PART NUMBERS EC NO: UCP2009-1099 DRAWN: TBENES 2009/02/12 CHKD: J.BELL 2008/01/24 APPR: FSMITH 2010/04/09 REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY LSCHMIDT	DATE 2008/01/22	TITLE MINI-FIT VERT HDR ASSY W & W/O PEGS/DRAIN HOLES SINGLE AND DUAL ROW MOLEX INCORPORATED				
			4 PLACES	± ---	± ---	CHECKED BY ADERR	DATE 2008/01/24					
			3 PLACES	± ---	± .015	APPROVED BY FSMITH	DATE 2010/04/09					
			2 PLACES	± 0.38	± .020	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
A2			ANGULAR ±1/2°		SEE CHARTS		SD-5566-225		1 OF 4			
			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 HOLE LAYOUT FOR .070/(1.78) MAX. THICK P.C. BOARD
VIEWED FROM COMPONENT SIDE

CIRCUIT SIZE	DIM. "A"	DIM. "B"	DIM. "C"
2	.21 (5.4)	—	.370 (9.40)
4	.38 (9.6)	.17 (4.2)	.535 (13.60)
6	.54 (13.8)	.33 (8.4)	.701 (17.80)
8	.71 (18.0)	.50 (12.6)	.866 (22.00)
10	.87 (22.2)	.66 (16.8)	1.031 (26.20)
12	1.04 (26.4)	.83 (21.0)	1.197 (30.40)
14	1.20 (30.6)	.99 (25.2)	1.362 (34.60)
16	1.37 (34.8)	1.16 (29.4)	1.528 (38.80)
18	1.54 (39.0)	1.32 (33.6)	1.693 (43.00)
20	1.70 (43.2)	1.49 (37.8)	1.858 (47.20)
22	1.87 (47.4)	1.65 (42.0)	2.024 (51.40)
24	2.03 (51.6)	1.82 (46.2)	2.189 (55.60)

SEE SHT. 1 FOR SINGLE ROW
* THE CHART FOR DUAL ROW PRODUCT IS ON PAGE 4

RELEASED EC NO: UCP2007-3159 DRAWN:LSCHMIDT 2008/02/08 CHKD:ADERR 2008/02/08 APPR:FSM/TH 2008/02/12	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE MINI-FIT VERT HDR ASSY W & W/O PEGS/DRAIN HOLES SINGLE AND DUAL ROW MOLEX INCORPORATED SD-5566-225		
				mm	INCH	DRAWN BY LSCHMIDT	DATE 2008/01/22					
			4 PLACES	±.005	±.005	CHECKED BY ADERR	DATE 2008/01/24					
			3 PLACES	±.005	±.015							
			2 PLACES	±.038	±.020							
A	REV		1 PLACE	±.050	±.005	APPROVED BY FSM THROEMER	DATE 2008/01/25					
			ANGULAR ±1/2°									
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHARTS		DOCUMENT NO. SD-5566-225		SHEET NO. 2 OF 4			
			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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	DRAIN HOLES:		WITHOUT DRAIN HOLES		DRAIN HOLES:		WITHOUT DRAIN HOLES		DRAIN HOLES:		DRAIN HOLES:																																			
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	50-36-1697	5566-06AS-225	6		50-36-1704	5566-06A2S-225	6				6				6																															
	50-36-1683	5566-08AS-225	8		50-36-1706	5566-08A2S-225	8				8				8																															
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H	50-36-1886	5566-12AS-225	12		50-36-1711	5566-12A2S-225	12				12				12																															
	50-36-1888	5566-14AS-225	14		NOT TOOLED	5566-14A2S-225	14				14				14																															
	50-36-1891	5566-16AS-225	16		NOT TOOLED	5566-16A2S-225	16				16				16																															
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	NOT TOOLED	5566-20AS-225	20		NOT TOOLED	5566-20A2S-225	20				20				20																															
	NOT TOOLED	5566-22AS-225	22		NOT TOOLED	5566-22A2S-225	22				22				22																															
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<div><div><div>SEE SHEET 1 EC NO: UCP2009-1099 DRWN:TRENE'S CHKD:JBELL APPR:FSMITH</div><div>REV DESCRIPTION</div></div><div><div>QUALITY SYMBOLS</div><div>▽=0 ▽=0</div></div><div><div>GENERAL TOLERANCES (UNLESS SPECIFIED)</div><table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± ---°</td></tr></table><div>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</div></div><div><div>DIMENSION STYLE IN/MM</div><table><tr><td>DRAWN BY</td><td>DATE</td></tr><tr><td>LSCSMIDT</td><td>2008/01/22</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td>ADERR</td><td>2001/01/24</td></tr><tr><td>APPROVED BY</td><td>DATE</td></tr><tr><td>FSMITH</td><td>2010/04/09</td></tr></table><div>MATERIAL NO.</div><div>SIZE C</div></div><div><div>SCALE 1:1</div><div>DESIGN UNITS METRIC</div><div>THIRD ANGLE PROJECTION</div><div>TITLE MINI-FIT VERT HDR ASSY W & W/O PEGS/DRAIN HOLES SINGLE AND DUAL ROW</div><div><div>molex</div><div>MOLEX INCORPORATED</div></div><div>DOCUMENT NO. SD-5566-225</div><div>SHEET NO. 4 OF 4</div><div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div></div></div>																		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	ANGULAR ± ---°			DRAWN BY	DATE	LSCSMIDT	2008/01/22	CHECKED BY	DATE	ADERR	2001/01/24	APPROVED BY	DATE	FSMITH	2010/04/09
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