

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0050361711

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, 12 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)	12
Circuits (maximum)	12
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

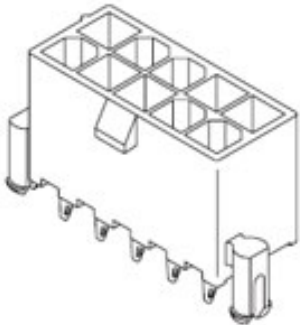


image - Reference only

Series

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

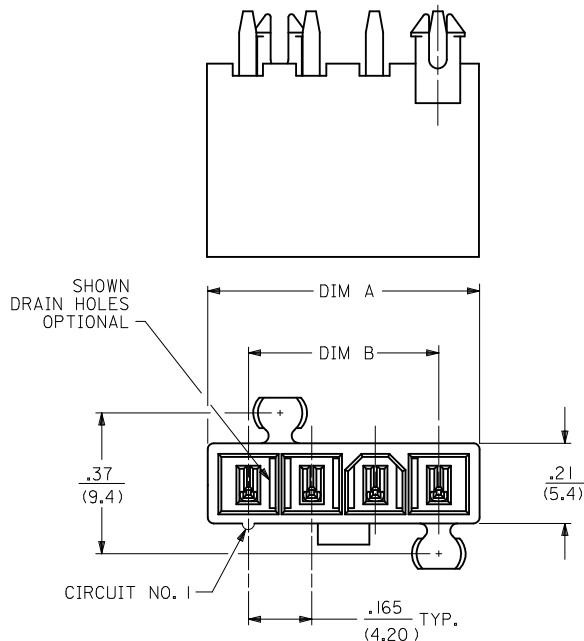
Old Part Number	5566-12A2S-225
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Reference - Drawing Numbers

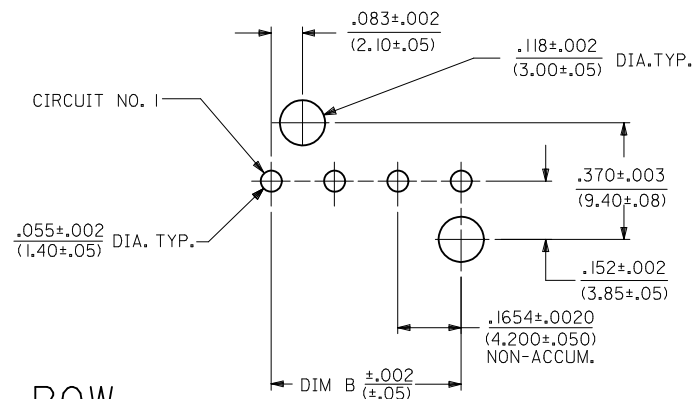
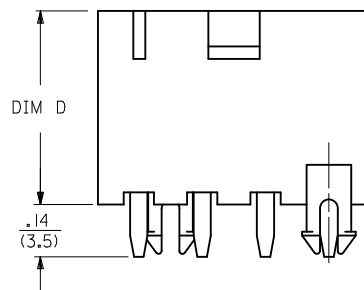
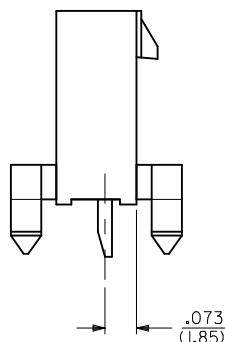
Packaging Specification	PK-5566-001
Sales Drawing	SD-5566-225

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.'

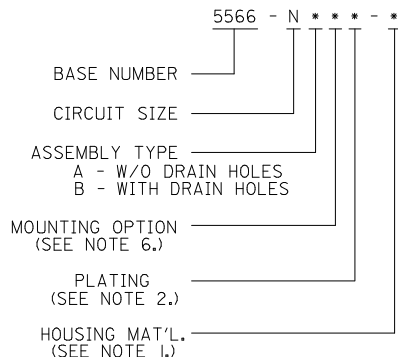


RECOMMENDED HOLE LAYOUT FOR
.070/(1.78) MAX. THICK P.C. BOARD
VIEWED FROM COMPONENT SIDE

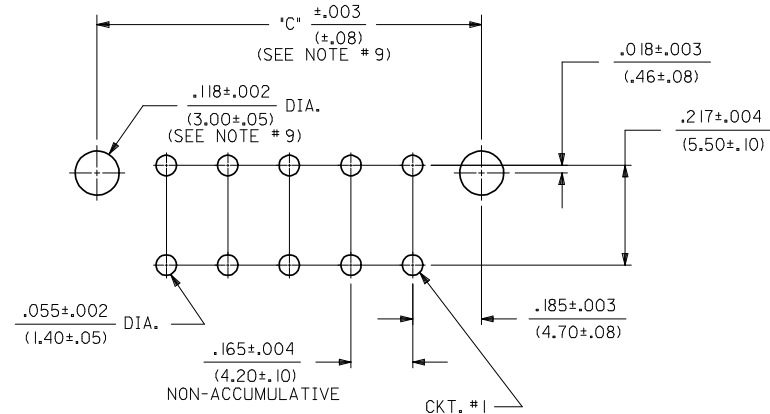
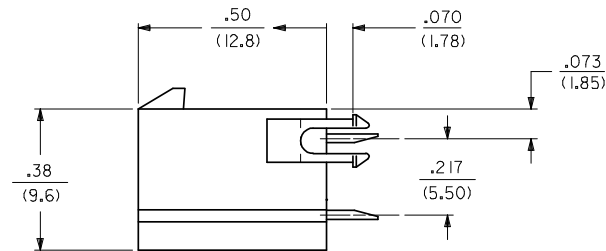
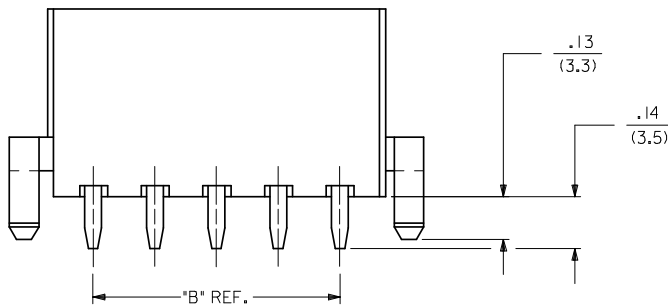
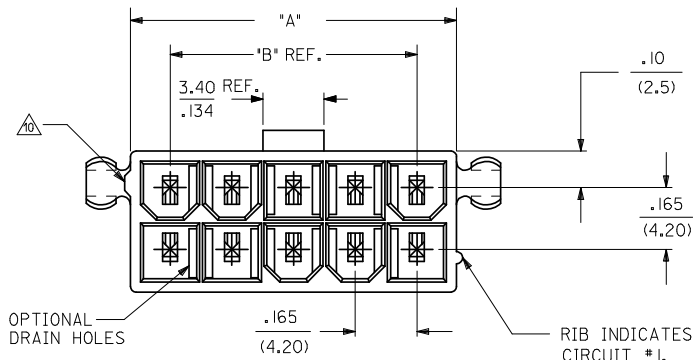
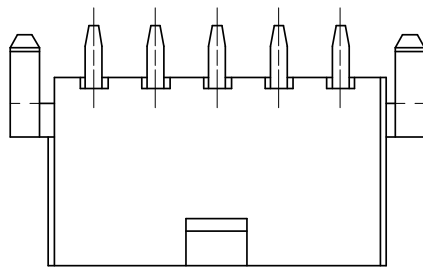
4	A2
3	A2
2	A
1	A2
SHT	REV

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

LEGEND:



ADD PART NUMBERS EC NO: UCP2009-1099 DRAWN: TBENES 2009/02/12 CHKD: J.BELL 2008/01/24 APPR: FSMITH 2010/04/09 A2	DESCRIPTION REV	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			
			4 PLACES	± ---	± ---	CHECKED BY ADERR	DATE 2008/01/24				
			3 PLACES	± ---	± .015	APPROVED BY	DATE				
			2 PLACES	± 0.38	± .020	FSMITH	2010/04/09				
			1 PLACE	± 0.50	± ---	MATERIAL NO.					DOCUMENT NO.
			ANGULAR ± 1/2°			SEE CHARTS		SD-5566-225			SHEET NO. 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			
				mm	INCH	DRAWN BY LSCHMIDT	DATE 2008/01/22						
			4 PLACES	±.---	±.---	CHECKED BY ADERR	DATE 2008/01/24						
			3 PLACES	±.---	±.015								
			2 PLACES	±0.38	±.020								
			1 PLACE	±0.50	±.---								
			ANGULAR ±1/2°		APPROVED BY FSM THROEMER		DATE 2008/01/25	DOCUMENT NO.			SHEET NO. 2 OF 4		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHARTS		SD-5566-225						
			SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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	PLATING:		100 M.I. TIN - PLATING CODE 'S'				PLATING:		100 M.I. TIN - PLATING CODE 'S'				PLATING:						PLATING:								
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	PACKAGING:		TRAY PACK PER PK-5566-001				PACKAGING:		TRAY PACK PER PK-5566-001				PACKAGING:						PACKAGING:								
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	50-36-1884	5566-04AS-225	4		50-36-1702	5566-04A2S-225	4								4								4				
	50-36-1697	5566-06AS-225	6		50-36-1704	5566-06A2S-225	6								6								6				
H	50-36-1683	5566-08AS-225	8		50-36-1706	5566-08A2S-225	8								8								8		H		
	50-36-1741	5566-10AS-225	10		50-36-1708	5566-10A2S-225	10								10								10				
	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				
G	NOT TOOLED	5566-18AS-225	18		NOT TOOLED	5566-18A2S-225	18								18								18		G		
	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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	PLATING:		100 M.I. TIN - PLATING CODE 'S'																								
	DRAIN HOLES:		WITHOUT DRAIN HOLES																								
	MTG. OPTION:		WITH PEGS																								
	PACKAGING:		TRAY PACK PER PK-5566-001																								
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SEE SHEET 1 EC NO: UCP2009-1099 2009/02/12 DRWN:TBENES CHKD:JBELL 2001/01/24 APPR:FSMITH 2010/04/09	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <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>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	ANGULAR ± ---°			DIMENSION STYLE IN/MM		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	SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																										
A2		REV					SD-5566-225		4 OF 4																				

SEE SHEET 1

EC NO: UCP2009-1099

2009/02/12

DRWN:TBENES

2001/01/24

CHKD:JBELL

2010/04/09

APPR:FSMITH

REVDESCRIPTION

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

4 PLACES ± --- ± ---

3 PLACES ± --- ± ---

2 PLACES ± --- ± ---

1 PLACE ± --- ± ---

ANGULAR ± ---°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

IN/MM

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

FSMITH2010/04/09

SCALE

1:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

MINI-FIT VERT HDR ASSY
W & W/O PEGS/DRAIN HOLES
SINGLE AND DUAL ROW

MOLEX

MOLEX INCORPORATED

MATERIAL NO.

SEE CHART

DOCUMENT NO.

SD-5566-225

SHEET NO.

4 OF 4

SIZE

C

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