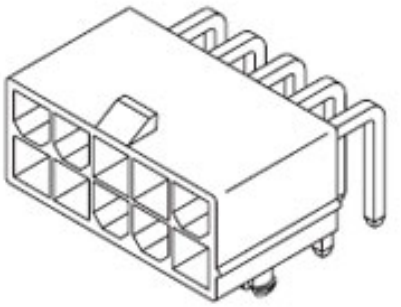
This document was generated on 05/24/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0050362381
Status: Active
Overview: minifit_jr
Description: 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Right Angle, with PCB Mounging Peg, 8 Circuits, PA Polyamide Nylon 6/6, 94V-2, Matte Tin (Sn)



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-5556-001 (PDF)
- RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	PCB Headers
Series	5569
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 Crimpted to to 16 AWG wire. . See Molex Product specification PS-5556-001 for additional current de-rating information.
Overview	minifit_jr
Product Name	Mini-Fit Jr.™

Physical

Breakaway	No
Circuits (Loaded)	8
Circuits (maximum)	8
Circuits Detail	8
Color - Resin	Natural
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-2
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	Tin
Material - Plating Termination	Nickel
Material - Resin	Nylon
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.142 In
PC Tail Length (mm)	3.60 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.070 In
PCB Thickness Recommended (mm)	1.78 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm
Pitch - Term. Interface (in)	0.165 In

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
5569Series

Mates With
5557 Mini-Fit Jr.™ Receptacle Housing

Pitch - Term. Interface (mm)	4.20 mm
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	260

Material Info

Old Part Number	5569-08A1MS-210

Reference - Drawing Numbers

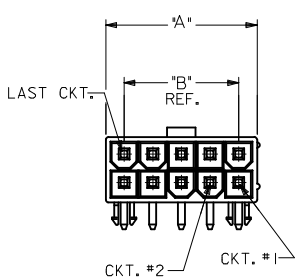
Packaging Specification	PK-5569-002
Product Specification	PS-5556-001
Sales Drawing	SD-5569-222

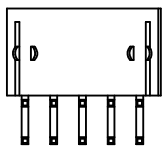
LEGEND:

5569 - N A * * - *-*

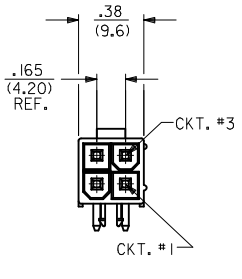
- BASE NUMBER
- CIRCUIT SIZE
- ASSEMBLY
- MOUNTING OPTION (SEE NOTE 6)
- PLATING (SEE NOTE 2)
- HOUSING MAT'L. (SEE NOTE 1.)
- PACKAGING (SEE NOTE 4)

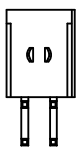
CIRCUIT SIZE	DIM. "A"	DIM. "B"
6	.54 (13.8)	.33 (8.4)
8	.71 (18.0)	.50 (12.6)
10	.87 (22.2)	.66 (16.8)
12	1.04 (26.4)	.83 (21.0)
14	1.20 (30.6)	.99 (25.2)
16	1.37 (34.8)	1.16 (29.4)
18	1.54 (39.0)	1.32 (33.6)
20	1.70 (43.2)	1.49 (37.8)
22	1.87 (47.4)	1.65 (42.0)
24	2.03 (51.6)	1.82 (46.2)



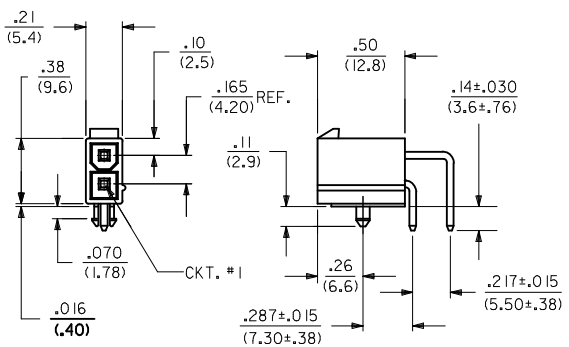


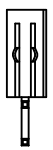
5569-*A2*-*



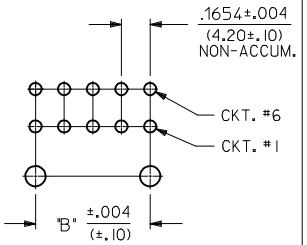


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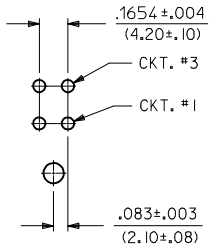




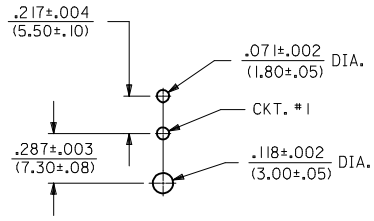
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RECOMMENDED HOLE LAYOUT FOR .070/(1.78) MAX. THICK P.C. BOARD VIEWED FROM COMPONENT SIDE



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



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

NOTES:

1) TERMINAL MATERIAL: BRASS ALLOY
   HOUSING MATERIAL:
   "BLANK" = NYLON (PA66), UNFILLED, UL94V-2 COLOR: NATURAL.
   "100" = NYLON (PA66),UNFILLED, UL94V-2 COLOR: BLACK.
   "BL" = NYLON (PA66),UNFILLED, UL94V-2 COLOR: BLACK
   "210" = NYLON (PA66),UNFILLED, UL94V-0 COLOR: NATURAL.
   "400" = NYLON (PA66),UNFILLED, UL94V-0 COLOR: BLACK.
2) TERMINAL PLATING:
   MS - .000100/(.00254) MIN. MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
3) PRODUCT SPECIFICATION: PS-5556-001
4) PACKAGING:
   BLANK = BULK PACKED PER PK-5569-002
   T = TRAY PACKED PER PK-5569-003
5) PART MATES WITH MINI-FIT JR. RECEPTACLE #5557.
6) MOUNTING OPTIONS:
   1 - SCREW MOUNT (SEE #SD-5569-NA*1 SERIES DWGS.)
   (OR SHEET 3 FOR MATTE TIN IN SCREW MOUNT)
   2 - PEG MOUNT
7) DISCOLORATION IN THE BANDOLIER CARRIER AREA OF THE PIN IS INHERENT TO THE PLATING PROCESS AND IS DUE TO THE MASKING EFFECT OF THE CARRIER. THIS DISCOLORATION IS IN A NON-FUNCTIONAL AREA OF THE PIN AND WILL NOT AFFECT THE PERFORMANCE OF THE HEADER ASSEMBLY.
8) PARTS ARE NOT DESIGNED FOR CURRENT SHARING
9) CONNECTORS ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
10) PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

SEE SHEETS 3 AND 4 FOR FLANGE MOUNT OPTION

4	A3
3	A3
2	A3
1	A3
SHEET	REV

ADD FLANGE MTG
EC NO: UCP2009-1190
DRWN: JKLOSTEMEIER 2008/11/11
CHKD: JBELL 2008/11/13
APPR: FSMITH 2008/11/14
DESCRIPTION
REV
A3

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± .25	± .015
1 PLACE	± .38	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	ADRATNOL	DATE 2006/01/17
CHECKED BY	GPOLGAR	DATE 2006/01/17
APPROVED BY	JCOMERCI	DATE 2006/01/17

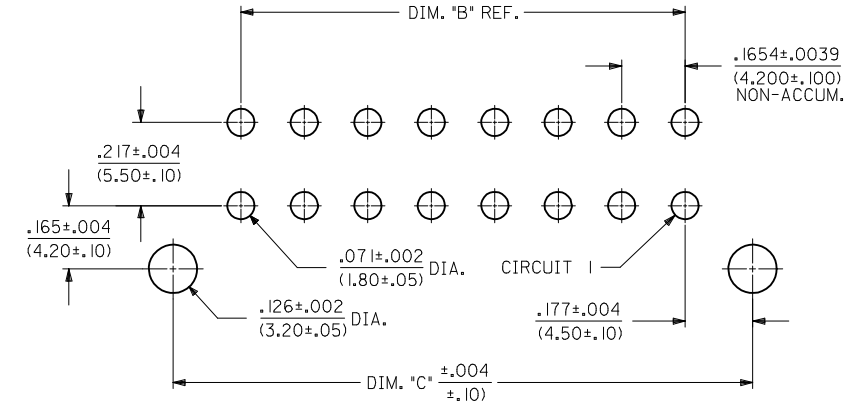
TITLE: MINI-FIT JR RIGHT ANGLE HEADER ASSYS W/ MATTE SN W/ MNTG PEGS OR FLANGES

MOLEX INCORPORATED

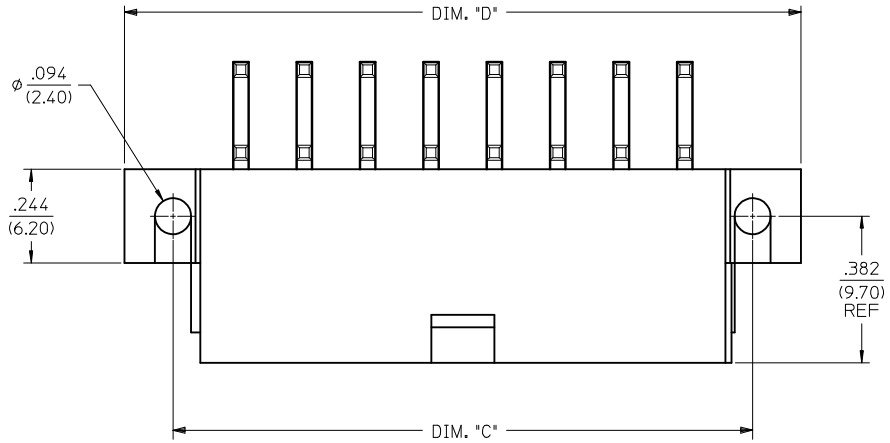
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-5569-222
SHEET NO.: 1 OF 4

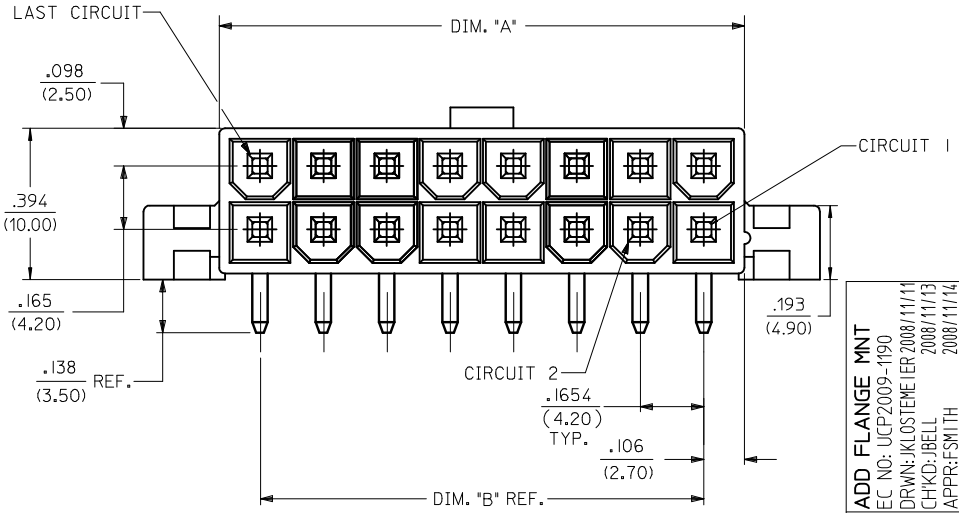
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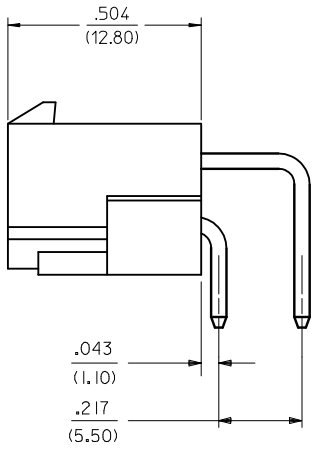
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RECOMMENDED PCB HOLE LAYOUT
VIEWED FROM COMPONENT SIDE
.070/(1.78) MAX. THICK P.C. BOARD
PART IS DESIGNED FOR USE WITH 4-40 OR M3 SCREWS







CIRCUIT SIZE	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"
2	.213 (5.40)	—	.354 (9.00)	.606 (15.40)
4	.378 (9.60)	.165 (4.20)	.520 (13.20)	.772 (19.60)
6	.543 (13.80)	.331 (8.40)	.685 (17.40)	.937 (23.80)
8	.709 (18.00)	.496 (12.60)	.850 (21.60)	1.102 (28.00)
10	.874 (22.20)	.661 (16.80)	1.016 (25.80)	1.268 (32.20)
12	1.039 (26.40)	.827 (21.00)	1.181 (30.00)	1.433 (36.40)
14	1.205 (30.60)	.992 (25.20)	1.346 (34.20)	1.598 (40.60)
16	1.370 (34.80)	1.157 (29.40)	1.512 (38.40)	1.764 (44.80)
18	1.535 (39.00)	1.323 (33.60)	1.677 (42.60)	1.929 (49.00)
20	1.701 (43.20)	1.488 (37.80)	1.843 (46.80)	2.094 (53.20)
22	1.866 (47.40)	1.654 (42.00)	2.008 (51.00)	2.260 (57.40)
24	2.031 (51.60)	1.819 (46.20)	2.173 (55.20)	2.425 (61.60)

SEE SHEET 1 AND 2 FOR PEG MOUNT OPTION

ADD FLANGE MNT
EC NO: UCP2009-1190
DRWN: JKLOSTEMEIER 2008/11/11
CHKD: JBELL 2008/11/13
APPR: FSMITH 2008/11/14
DESCRIPTION
A3
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .015
2 PLACES	± 0.38	± ---
1 PLACE	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	RJF	DATE 3/27/92
CHECKED BY	RJF	DATE 3/27/92
APPROVED BY	RAS	DATE 3/27/92

TITLE: MINI-FIT JR. RT ANGLE HEADER ASSY W/ MATTE SN W/ MNTG PEGS OR FLANGES

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHARTS
DOCUMENT NO.: SD-5569-222
SHEET NO.: 3 OF 4
SIZE: C

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PART NUMBER	ENGINEERING NUMBER	CKT SIZE	MOUNTING OPTION	PLATING (NOTE 6)	HOUSING MATERIAL
50-36-2384	5569-02A1MS	02	FLANGE	MATTE TIN OVER NICKEL	94V-2
50-36-2385	5569-04A1MS	04			
50-36-2382	5569-06A1MS	06			
50-36-2383	5569-08A1MS	08			
50-36-2386	5569-10A1MS	10			
50-36-2387	5569-12A1MS	12			
50-36-2388	5569-14A1MS	14			
50-36-2389	5569-16A1MS	16			
50-36-2391	5569-18A1MS	18			
50-36-2411	5569-20A1MS	20			
50-36-2412	5569-22A1MS	22			
50-36-2413	5569-24A1MS	24	FLANGE	MATTE TIN OVER NICKEL	94V-2

PART NUMBER	ENGINEERING NUMBER	CKT SIZE	MOUNTING OPTION	PLATING (NOTE 6)	HOUSING MATERIAL
50-36-2414	5569-02A1MS-210	02	FLANGE	MATTE TIN OVER NICKEL	94V-0
50-36-2415	5569-04A1MS-210	04			
50-36-2379	5569-06A1MS-210	06			
50-36-2381	5569-08A1MS-210	08			
50-36-2416	5569-10A1MS-210	10			
50-36-2417	5569-12A1MS-210	12			
50-36-2418	5569-14A1MS-210	14			
50-36-2419	5569-16A1MS-210	16			
50-36-2421	5569-18A1MS-210	18			
50-36-2422	5569-20A1MS-210	20			
50-36-2423	5569-22A1MS-210	22			
50-36-2424	5569-24A1MS-210	24	FLANGE	MATTE TIN OVER NICKEL	94V-0

PART NUMBER	ENGINEERING NUMBER	CKT SIZE	MOUNTING OPTION	PLATING (NOTE 6)	HOUSING MATERIAL
		02			
		04			
		06			
		08			
		10			
		12			
		14			
		16			
		18			
		20			
		22			
		24			

PART NUMBER	ENGINEERING NUMBER	CKT SIZE	MOUNTING OPTION	PLATING (NOTE 6)	HOUSING MATERIAL
		02			
		04			
		06			
		08			
		10			
		12			
		14			
		16			
		18			
		20			
		22			
		24			

PART NUMBER	ENGINEERING NUMBER	CKT SIZE	MOUNTING OPTION	PLATING (NOTE 6)	HOUSING MATERIAL
		02			
		04			
		06			
		08			
		10			
		12			
		14			
		16			
		18			
		20			
		22			
		24			

SEE SHEETS 1 AND 2 FOR PEG MOUNT OPTION

ADD FLANGE MNT
EC NO: UCP2009-1190
DRWN: JKLOSTEMEIER 2008/11/11
CHKD: JBELL 2008/11/13
APPR: FSMITH 2008/11/14
DESCRIPTION
A3
REV

QUALITY SYMBOLS
▼=0
▽C=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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	ADRATNOL	2006/01/17
CHECKED BY	GPOLGAR	2006/01/17
APPROVED BY	JCOMERCI	2006/01/17

TITLE: MINI-FIT JR. RIGHT ANGLE HEADER ASSYS W/ MATTE SN W/ MNTG PEGS OR FLANGES

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-5569-222
SHEET NO.: 4 OF 4
SIZE: C

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