

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0039299029](#)

Status: **Active**

Overview: [minifit_jr](#)

Description: 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 2 Circuits, PA Polyamide Nylon 6/6 94V-0, 0.76µm (30µ") Gold (Au) Selective Plating, without Drain Holes

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-5556-001 \(PDF\)](#)

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

Agency Certification

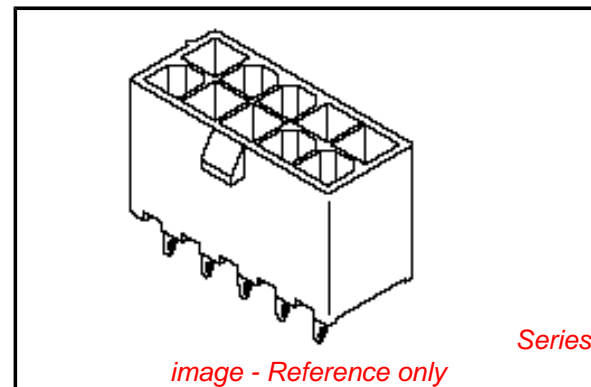
CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	PCB Headers
Series	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)	2
Circuits (maximum)	2
Color - Resin	Natural
Durability (mating cycles max)	30
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	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

Not Reviewed

Halogen-Free

Status

Halogen-Free

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)	30.4
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
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	240

Material Info

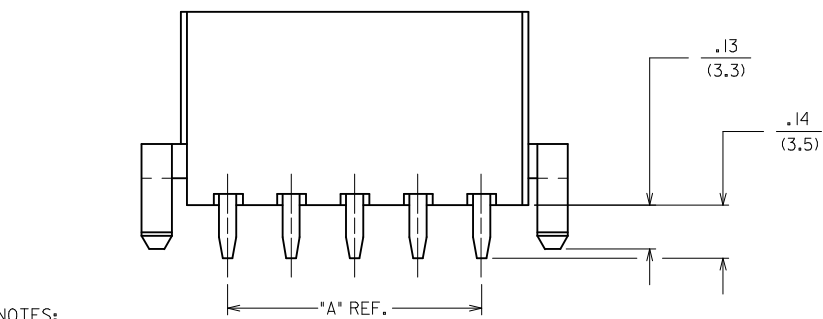
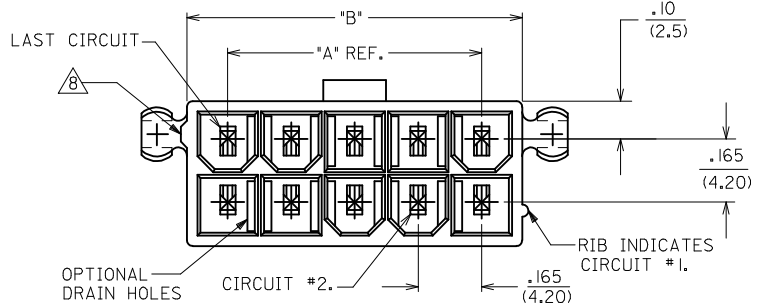
Old Part Number	5566-02A2GS-210
-----------------	-----------------

Reference - Drawing Numbers

Packaging Specification	PK-5566-001
Product Specification	PS-5556-001
Sales Drawing	SDA-5566-N*2*-*
Test Summary	TS-5556-002

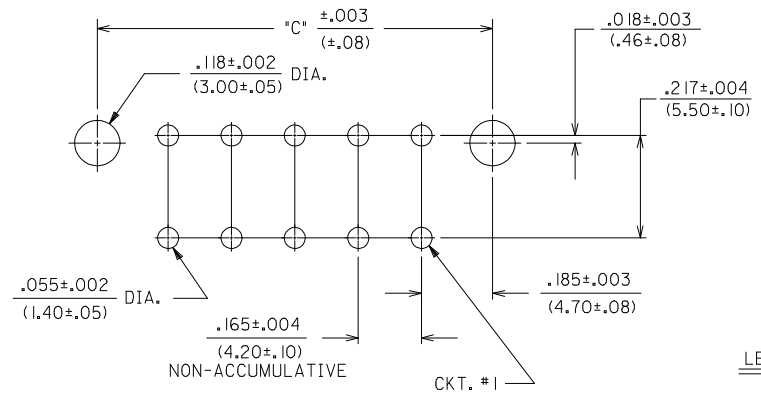
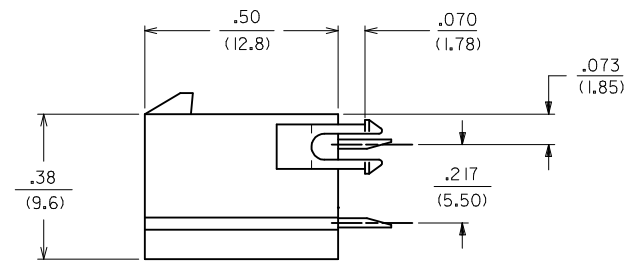
This document was generated on 05/21/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



NOTES:

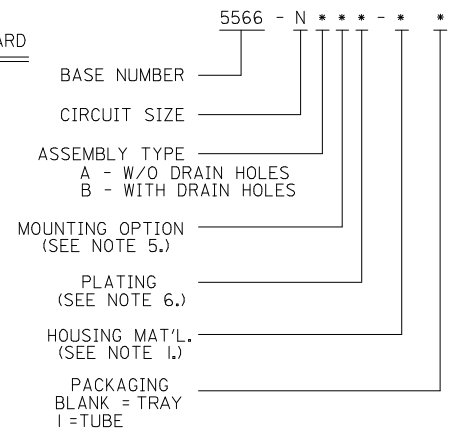
- 1) HOUSING MATERIAL:
 - "BLANK" - NYLON 6/6, U.L. 94V-2, COLOR: NATURAL.
 - 210 - NYLON 6/6, U.L. 94V-0, COLOR: NATURAL.
 - BL - NYLON 6/6, U.L. 94V-2, COLOR: DYED BLACK.
- 2) TERMINAL MATERIAL: BRASS ALLOY 260
- 3) PART MATES WITH MINI-FIT JR. RECEPTACLE #5557.
- 4) PACKAGING: SEE CHARTS
- 5) MOUNTING OPTIONS:
 - "BLANK" - NO MOUNTING (SEE SD-5566-NA AND -NB SERIES DWGS.)
 - 2 - PEG MOUNT
- 6) TERMINAL PLATING:
 - "BLANK" - .000035/(.00090) MIN. TIN OVER .000020/(.00050) MIN. COPPER.
 - *GS - .000030/(.00076) MIN. SELECT GOLD .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
 - *GS2 - .000015/(.00038) MIN. SELECT GOLD AND .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
 - S - .000100/(.00254) MIN. TIN OVER .000050/(.00127) MIN. NICKEL.
- *THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC."
- *CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.
- 7) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: SEE PS-5556-001
- 8) ANTI-SHINGLING RIB MAY OR MAY NOT APPEAR ON HOUSINGS.
- 9) CONNECTORS ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
- 10) PARTS ARE NOT DESIGNED FOR CURRENT SHARING.



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

LEGEND:



4	R2
3	R2
2	R2
1	R2
SHT. REV.	

REVISED NOTES 8 EC NO: UCP2009-1336 DRAWN: JLOSTEMEIER 2008/11/24 CHKD: JBEL 2008/11/24 APPR: FSMITH 2008/11/24	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	IN/MM	1:1	METRIC	
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE		
		3 PLACES ± --- ± .015	RJF 8/19/87	MINI-FIT JR. VERTICAL HEADER ASSEMBLIES WITH MOUNTING PEGS		
	2 PLACES ± 0.38 ± .015	CHECKED BY DATE	MOLEX MOLEX INCORPORATED			
	1 PLACE ± 0.38 ± ---	GT 8/19/87	SDA-5566-N*2*-*			
	ANGULAR ±1/2°	APPROVED BY DATE	SHEET NO. 1 OF 4			
		RAS 8/19/87	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		MATERIAL NO. DOCUMENT NO.				
		SEE SHTS 2-4				

	13	12	11	10	9	8	7	6	5	4	3	2	1
J	PLATING: 35 M.I. TIN			PLATING: 35 M.I. TIN			PLATING: 30 M.I. GOLD			PLATING: 30 M.I. GOLD			
	DRAIN HOLES: WITHOUT DRAIN HOLES			DRAIN HOLES: WITHOUT DRAIN HOLES			DRAIN HOLES: WITHOUT DRAIN HOLES			DRAIN HOLES: WITHOUT DRAIN HOLES			
	MTG. OPTION: WITH PEGS			MTG. OPTION: WITH PEGS			MTG. OPTION: WITH PEGS			MTG. OPTION: WITH PEGS			
	HOUSING MAT'L: NYLON 6/6 94V-2 NATURAL			HOUSING MAT'L: NYLON 6/6 94V-0 NATURAL			HOUSING MAT'L: NYLON 6/6 94V-2 NATURAL			HOUSING MAT'L: NYLON 6/6 94V-0 NATURAL			
	PACKAGING: TRAY			PACKAGING: TRAY			PACKAGING: TRAY			PACKAGING: TRAY			
I	PART NO.	ENG NO.	CKTS	PART NO.	ENG NO.	CKTS	PART NO.	ENG NO.	CKTS	PART NO.	ENG NO.	CKTS	
	39-29-9023	5566 -02A2	2	39-29-9027	5566 -02A2-210	2	39-29-9025	5566 -02A2GS	2	39-29-9029	5566 -02A2GS-210	2	
	39-29-9043	5566 -04A2	4	39-29-9047	5566 -04A2-210	4	39-29-9045	5566 -04A2GS	4	39-29-9049	5566 -04A2GS-210	4	
	39-29-9063	5566 -06A2	6	39-29-9067	5566 -06A2-210	6	39-29-9065	5566 -06A2GS	6	39-29-9069	5566 -06A2GS-210	6	
	39-29-9083	5566 -08A2	8	39-29-9087	5566 -08A2-210	8	39-29-9085	5566 -08A2GS	8	39-29-9089	5566 -08A2GS-210	8	
	39-29-9103	5566 -10A2	10	39-29-9107	5566 -10A2-210	10	39-29-9105	5566 -10A2GS	10	39-29-9109	5566 -10A2GS-210	10	
	39-29-9123	5566 -12A2	12	39-29-9127	5566 -12A2-210	12	39-29-9125	5566 -12A2GS	12	39-29-9129	5566 -12A2GS-210	12	
	39-29-9143	5566 -14A2	14	39-29-9147	5566 -14A2-210	14	39-29-9145	5566 -14A2GS	14	39-29-9149	5566 -14A2GS-210	14	
	39-29-9163	5566 -16A2	16	39-29-9167	5566 -16A2-210	16	39-29-9165	5566 -16A2GS	16	39-29-9169	5566 -16A2GS-210	16	
	39-29-9183	5566 -18A2	18	39-29-9187	5566 -18A2-210	18	39-29-9185	5566 -18A2GS	18	39-29-9189	5566 -18A2GS-210	18	
	39-29-9203	5566 -20A2	20	39-29-9207	5566 -20A2-210	20	39-29-9205	5566 -20A2GS	20	39-29-9209	5566 -20A2GS-210	20	
	39-29-9223	5566 -22A2	22	39-29-9227	5566 -22A2-210	22	39-29-9225	5566 -22A2GS	22	39-29-9229	5566 -22A2GS-210	22	
	39-29-9243	5566 -24A2	24	39-29-9247	5566 -24A2-210	24	39-29-9245	5566 -24A2GS	24	39-29-9249	5566 -24A2GS-210	24	
	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	

G	PLATING: 35 M.I. TIN			PLATING: 35 M.I. TIN			PLATING: 30 M.I. GOLD			PLATING: 30 M.I. GOLD			
	DRAIN HOLES: WITH DRAIN HOLES			DRAIN HOLES: WITH DRAIN HOLES			DRAIN HOLES: WITH DRAIN HOLES			DRAIN HOLES: WITH DRAIN HOLES			
	MTG. OPTION: WITH PEGS			MTG. OPTION: WITH PEGS			MTG. OPTION: WITH PEGS			MTG. OPTION: WITH PEGS			
	HOUSING MAT'L: NYLON 6/6 94V-2 NATURAL			HOUSING MAT'L: NYLON 6/6 94V-0 NATURAL			HOUSING MAT'L: NYLON 6/6 94V-2 NATURAL			HOUSING MAT'L: NYLON 6/6 94V-0 NATURAL			
	PACKAGING: TRAY			PACKAGING: TRAY			PACKAGING: TRAY			PACKAGING: TRAY			
F	PART NO.	ENG NO.	CKTS	PART NO.	ENG NO.	CKTS	PART NO.	ENG NO.	CKTS	PART NO.	ENG NO.	CKTS	
	39-29-9022	5566 -02B2	2	39-29-9026	5566 -02B2-210	2	39-29-9024	5566 -02B2GS	2	39-28-9028	5566 -02B2GS-210	2	
	39-29-9042	5566 -04B2	4	39-29-9046	5566 -04B2-210	4	39-29-9044	5566 -04B2GS	4	39-28-9048	5566 -04B2GS-210	4	
	39-29-9062	5566 -06B2	6	39-29-9066	5566 -06B2-210	6	39-29-9064	5566 -06B2GS	6	39-28-9068	5566 -06B2GS-210	6	
	39-29-9082	5566 -08B2	8	39-29-9086	5566 -08B2-210	8	39-29-9084	5566 -08B2GS	8	39-28-9088	5566 -08B2GS-210	8	
	39-29-9102	5566 -10B2	10	39-29-9106	5566 -10B2-210	10	39-29-9104	5566 -10B2GS	10	39-28-9108	5566 -10B2GS-210	10	
	39-29-9122	5566 -12B2	12	39-29-9126	5566 -12B2-210	12	39-29-9124	5566 -12B2GS	12	39-28-9128	5566 -12B2GS-210	12	
	39-29-9142	5566 -14B2	14	39-29-9146	5566 -14B2-210	14	39-29-9144	5566 -14B2GS	14	39-28-9148	5566 -14B2GS-210	14	
	39-29-9162	5566 -16B2	16	39-29-9166	5566 -16B2-210	16	39-29-9164	5566 -16B2GS	16	39-28-9168	5566 -16B2GS-210	16	
	39-29-9182	5566 -18B2	18	39-29-9186	5566 -18B2-210	18	39-29-9184	5566 -18B2GS	18	39-28-9188	5566 -18B2GS-210	18	
	39-29-9202	5566 -20B2	20	39-29-9206	5566 -20B2-210	20	39-29-9204	5566 -20B2GS	20	39-28-9208	5566 -20B2GS-210	20	
	39-29-9222	5566 -22B2	22	39-29-9226	5566 -22B2-210	22	39-29-9224	5566 -22B2GS	22	39-28-9228	5566 -22B2GS-210	22	
	39-29-9242	5566 -24B2	24	39-29-9246	5566 -24B2-210	24	39-29-9244	5566 -24B2GS	24	39-28-9248	5566 -24B2GS-210	24	
	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	

C													C															
B													B															
A													A															
SEE SHEET 1 EC NO: UCP2009-1336 DRWN: KLOSTEMEIER 2008/11/24 CHKD: JBEL 2008/11/24 APPR: F SMITH 2008/11/24				QUALITY SYMBOLS = 0 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .---</td> <td>± .---</td> </tr> <tr> <td>3 PLACES</td> <td>± .---</td> <td>± .015</td> </tr> <tr> <td>2 PLACES</td> <td>± .38</td> <td>± .015</td> </tr> <tr> <td>1 PLACE</td> <td>± .38</td> <td>± .---</td> </tr> </table> ANGULAR ±1/2°		mm	INCH	4 PLACES	± .---	± .---	3 PLACES	± .---	± .015	2 PLACES	± .38	± .015	1 PLACE	± .38	± .---	DIMENSION STYLE IN/MM DRAWN BY: RJF DATE: 8/19/87 CHECKED BY: GT DATE: 8/19/87 APPROVED BY: RAS DATE: 8/19/87	SCALE: 1:1 DESIGN UNITS: METRIC THIRD ANGLE PROJECTION	TITLE: MINI-FIT JR. VERT HEADER ASSEMBLIES WITH MOUNTING PEGS MOLEX INCORPORATED				MATERIAL NO. SEE CHART DOCUMENT NO. SDA-5566-N*2*-* SHEET NO. 2	
	mm	INCH																										
4 PLACES	± .---	± .---																										
3 PLACES	± .---	± .015																										
2 PLACES	± .38	± .015																										
1 PLACE	± .38	± .---																										
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																