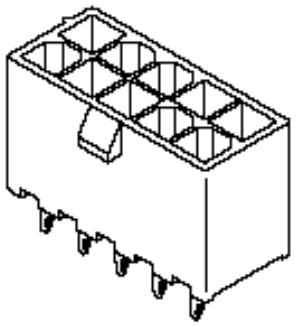
molex
one company > a world of innovation

This document was generated on 05/21/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0039299245
Status: Active
Overview: minifit_jr
Description: 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 24 Circuits, PA Polyamide Nylon 6/6 94V-2, 0.76µm (30µ") Gold (Au) Selective Plating, without Drain Holes



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	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 Crimpted 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)	24
Circuits (maximum)	24
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	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
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)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.50
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

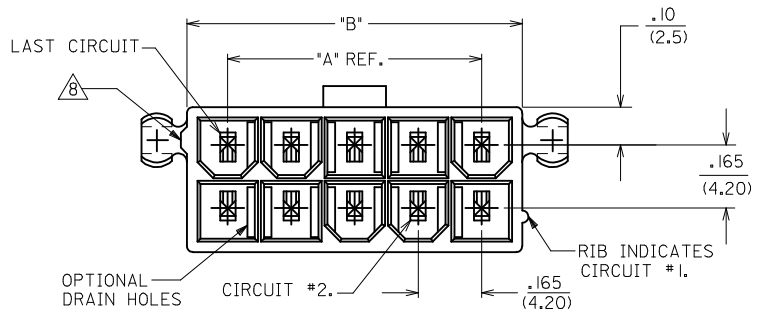
Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	240

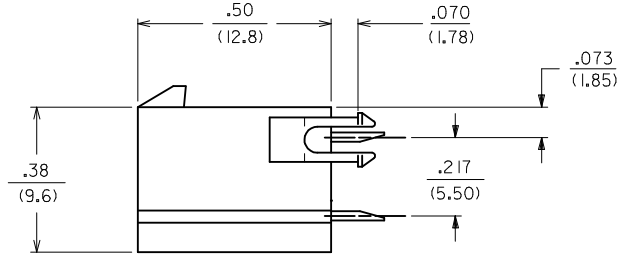
Material Info

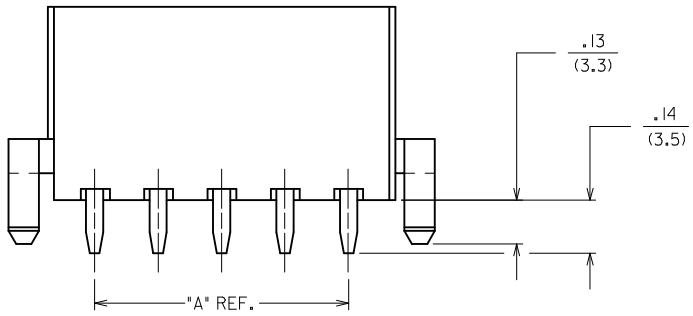
Old Part Number	5566-24A2GS

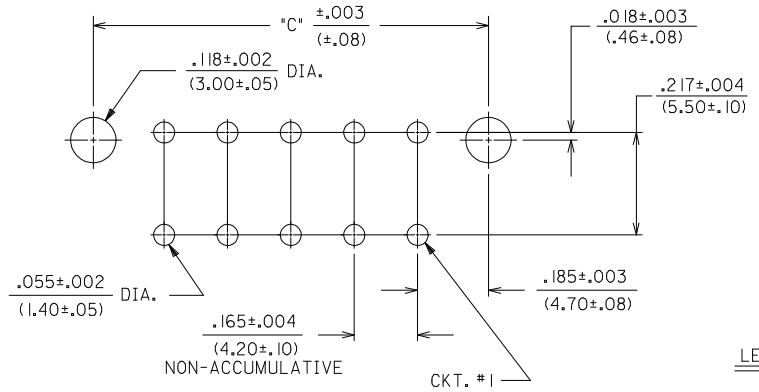
Reference - Drawing Numbers

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









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)

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.

LEGEND:

5566 - N * * * - * *
- BASE NUMBER
- CIRCUIT SIZE
- ASSEMBLY TYPE: A - W/O DRAIN HOLES; B - WITH DRAIN HOLES
- MOUNTING OPTION (SEE NOTE 5.)
- PLATING (SEE NOTE 6.)
- HOUSING MAT'L. (SEE NOTE 1.)
- PACKAGING: BLANK = TRAY; 1 = TUBE

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

REVISED NOTES 8
EC NO: UCP2009-1336
DRWN: JKLOSTEMEIER 2008/11/24
CHKD: JBELL 2008/11/24
APPR: FSMITH 2008/11/24
DESCRIPTION
R2
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .015
2 PLACES	± 0.38	± .015
1 PLACE	± 0.38	± ---
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	RJF	DATE 8/19/87
CHECKED BY	GT	DATE 8/19/87
APPROVED BY	RAS	DATE 8/19/87

TITLE: MINI-FIT JR. VERTICAL HEADER ASSEMBLIES WITH MOUNTING PEGS

molex MOLEX INCORPORATED

MATERIAL NO.: SEE SHTS 2-4
DOCUMENT NO.: SDA-5566-N*2*-*
SHEET NO.: 1 OF 4
SIZE: C

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

PLATING:	35 M.I. TIN
DRAIN HOLES:	WITHOUT DRAIN HOLES
MTG. OPTION:	WITH PEGS
HOUSING MAT'L:	NYLON 6/6 94V-2 NATURAL
PACKAGING:	TRAY

PART NO.	ENG NO.	CKTS
39-29-9023	5566 -02A2	2
39-29-9043	5566 -04A2	4
39-29-9063	5566 -06A2	6
39-29-9083	5566 -08A2	8
39-29-9103	5566 -10A2	10
39-29-9123	5566 -12A2	12
39-29-9143	5566 -14A2	14
39-29-9163	5566 -16A2	16
39-29-9183	5566 -18A2	18
39-29-9203	5566 -20A2	20
39-29-9223	5566 -22A2	22
39-29-9243	5566 -24A2	24
	-	
	-	

PLATING:	35 M.I. TIN
DRAIN HOLES:	WITHOUT DRAIN HOLES
MTG. OPTION:	WITH PEGS
HOUSING MAT'L:	NYLON 6/6 94V-0 NATURAL
PACKAGING:	TRAY

PART NO.	ENG NO.	CKTS
39-29-9027	5566 -02A2-210	2
39-29-9047	5566 -04A2-210	4
39-29-9067	5566 -06A2-210	6
39-29-9087	5566 -08A2-210	8
39-29-9107	5566 -10A2-210	10
39-29-9127	5566 -12A2-210	12
39-29-9147	5566 -14A2-210	14
39-29-9167	5566 -16A2-210	16
39-29-9187	5566 -18A2-210	18
39-29-9207	5566 -20A2-210	20
39-29-9227	5566 -22A2-210	22
39-29-9247	5566 -24A2-210	24
	-	
	-	

PLATING:	30 M.I. GOLD
DRAIN HOLES:	WITHOUT DRAIN HOLES
MTG. OPTION:	WITH PEGS
HOUSING MAT'L:	NYLON 6/6 94V-2 NATURAL
PACKAGING:	TRAY

PART NO.	ENG NO.	CKTS
39-29-9025	5566 -02A2GS	2
39-29-9045	5566 -04A2GS	4
39-29-9065	5566 -06A2GS	6
39-29-9085	5566 -08A2GS	8
39-29-9105	5566 -10A2GS	10
39-29-9125	5566 -12A2GS	12
39-29-9145	5566 -14A2GS	14
39-29-9165	5566 -16A2GS	16
39-29-9185	5566 -18A2GS	18
39-29-9205	5566 -20A2GS	20
39-29-9225	5566 -22A2GS	22
39-29-9245	5566 -24A2GS	24
	-	
	-	

PLATING:	30 M.I. GOLD
DRAIN HOLES:	WITHOUT DRAIN HOLES
MTG. OPTION:	WITH PEGS
HOUSING MAT'L:	NYLON 6/6 94V-0 NATURAL
PACKAGING:	TRAY

PART NO.	ENG NO.	CKTS
39-29-9029	5566 -02A2GS-210	2
39-29-9049	5566 -04A2GS-210	4
39-29-9069	5566 -06A2GS-210	6
39-29-9089	5566 -08A2GS-210	8
39-29-9109	5566 -10A2GS-210	10
39-29-9129	5566 -12A2GS-210	12
39-29-9149	5566 -14A2GS-210	14
39-29-9169	5566 -16A2GS-210	16
39-29-9189	5566 -18A2GS-210	18
39-29-9209	5566 -20A2GS-210	20
39-29-9229	5566 -22A2GS-210	22
39-29-9249	5566 -24A2GS-210	24
	-	
	-	

PLATING:	35 M.I. TIN
DRAIN HOLES:	WITH DRAIN HOLES
MTG. OPTION:	WITH PEGS
HOUSING MAT'L:	NYLON 6/6 94V-2 NATURAL
PACKAGING:	TRAY

PART NO.	ENG NO.	CKTS
39-29-9022	5566 -02B2	2
39-29-9042	5566 -04B2	4
39-29-9062	5566 -06B2	6
39-29-9082	5566 -08B2	8
39-29-9102	5566 -10B2	10
39-29-9122	5566 -12B2	12
39-29-9142	5566 -14B2	14
39-29-9162	5566 -16B2	16
39-29-9182	5566 -18B2	18
39-29-9202	5566 -20B2	20
39-29-9222	5566 -22B2	22
39-29-9242	5566 -24B2	24
	-	
	-	

PLATING:	35 M.I. TIN
DRAIN HOLES:	WITH DRAIN HOLES
MTG. OPTION:	WITH PEGS
HOUSING MAT'L:	NYLON 6/6 94V-0 NATURAL
PACKAGING:	TRAY

PART NO.	ENG NO.	CKTS
39-29-9026	5566 -02B2-210	2
39-29-9046	5566 -04B2-210	4
39-29-9066	5566 -06B2-210	6
39-29-9086	5566 -08B2-210	8
39-29-9106	5566 -10B2-210	10
39-29-9126	5566 -12B2-210	12
39-29-9146	5566 -14B2-210	14
39-29-9166	5566 -16B2-210	16
39-29-9186	5566 -18B2-210	18
39-29-9206	5566 -20B2-210	20
39-29-9226	5566 -22B2-210	22
39-29-9246	5566 -24B2-210	24
	-	
	-	

PLATING:	30 M.I. GOLD
DRAIN HOLES:	WITH DRAIN HOLES
MTG. OPTION:	WITH PEGS
HOUSING MAT'L:	NYLON 6/6 94V-2 NATURAL
PACKAGING:	TRAY

PART NO.	ENG NO.	CKTS
39-29-9024	5566 -02B2GS	2
39-29-9044	5566 -04B2GS	4
39-29-9064	5566 -06B2GS	6
39-29-9084	5566 -08B2GS	8
39-29-9104	5566 -10B2GS	10
39-29-9124	5566 -12B2GS	12
39-29-9144	5566 -14B2GS	14
39-29-9164	5566 -16B2GS	16
39-29-9184	5566 -18B2GS	18
39-29-9204	5566 -20B2GS	20
39-29-9224	5566 -22B2GS	22
39-29-9244	5566 -24B2GS	24
	-	
	-	

PLATING:	30 M.I. GOLD
DRAIN HOLES:	WITH DRAIN HOLES
MTG. OPTION:	WITH PEGS
HOUSING MAT'L:	NYLON 6/6 94V-0 NATURAL
PACKAGING:	TRAY

PART NO.	ENG NO.	CKTS
39-28-9028	5566 -02B2GS-210	2
39-28-9048	5566 -04B2GS-210	4
39-28-9068	5566 -06B2GS-210	6
39-28-9088	5566 -08B2GS-210	8
39-28-9108	5566 -10B2GS-210	10
39-28-9128	5566 -12B2GS-210	12
39-28-9148	5566 -14B2GS-210	14
39-28-9168	5566 -16B2GS-210	16
39-28-9188	5566 -18B2GS-210	18
39-28-9208	5566 -20B2GS-210	20
39-28-9228	5566 -22B2GS-210	22
39-28-9248	5566 -24B2GS-210	24
	-	
	-	

SEE SHEET 1
EC NO: UCP2009-1336
DRWN: JKLOSTEMEIER 2008/11/24
CHKD: JBELL 2008/11/24
APPR: FSMITH 2008/11/24
DESCRIPTION
R2
REV

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .015
2 PLACES	± .38	± .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	RJF	DATE 8/19/87
CHECKED BY	GT	DATE 8/19/87
APPROVED BY	RAS	DATE 8/19/87

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
SIZE: C

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION