

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0050304466

Status:

Active

Overview:

[minifit_jr](#)

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Single Row, Vertical, with Snap-in Plastic Peg PCB Lock, 4 Circuits, PA Polyamide Nylon 6/6, UL 94V-0, Tin (Sn) Over Nickel (Ni) Plating

Documents:

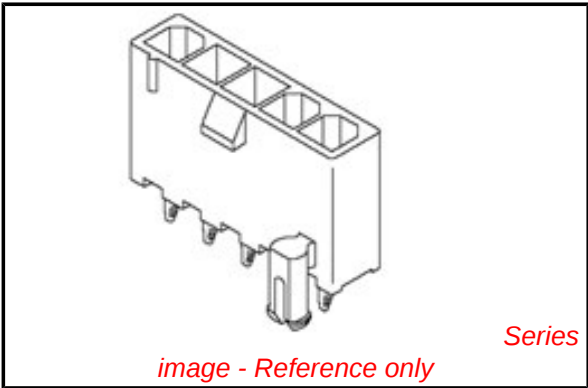
[3D Model](#)

[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)	4	
Circuits (maximum)	4	
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	Tin	
Material - Plating Termination	Tin	
Material - Resin	Nylon	
Number of Rows	1	
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)	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	5566-04B3S-210
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Reference - Drawing Numbers

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

This document was generated on 05/21/2010

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NOTES:

1. MATERIALS:

HOUSING:

BLANK=NYLON 6/6, UL94 V-2, COLOR: NATURAL

210=NYLON 6/6, UL94 V-0, COLOR: NATURAL

BL=NYLON 6/6, UL94 V-2, COLOR: BLACK

TERMINALS:

BRASS

2. TERMINAL PLATING:

BLANK=.000035/(0.00090) MIN. BRIGHT TIN OVER

.000020/(0.00050) MIN. COPPER

*GS2=.000015/(0.00038) MIN. SELECT GOLD AND

.000100/(0.00254) MIN. SELECT MATTE TIN

OVER .000050/(0.00127) MIN. NICKEL OVERALL

*GS=.000030/(0.00076) MIN. SELECT GOLD AND

.000100/(0.00254) MIN. SELECT MATTE TIN

OVER .000050/(0.00127) MIN. NICKEL OVERALL

S=.000100/(0.00254) MIN. BRIGHT TIN OVER

.000050/(0.00127) MIN. NICKEL

*THE PRIMARY SHIPPING CARTON WILL BE LABELED

"ELV AND RoHS COMPLIANT", CARTONS WITHOUT

THIS LABEL MAY CONTAIN PRODUCT WITH

TIN-LEAD PLATING.

3. PRODUCT SPECIFICATION: PS-5556-001

4. PACKAGING: TRAY PACKED PER PK-5556-002

5. PART MATES WITH MINI-FIT JR. RECEPTACLE NO. 5557.

6. PART IS NOT DESIGNED FOR CURRENT SHARING.

7. PARTS ARE NOT TO BE MATED OR UN-MATED WHILE

CIRCUITS ARE LIVE.

8. PART CONFORMS TO CLASS "B" REQUIREMENTS OF

COSMETIC SPECIFICATION PS-45499-002.

CKT SIZE	DIM A	DIM B
4	.709 (18.00)	.496 (12.60)
5	.874 (22.20)	.661 (16.80)
6	1.039 (26.40)	.827 (21.00)
7	1.205 (30.60)	.992 (25.20)
8	1.370 (34.80)	1.157 (29.40)
9	1.535 (39.00)	1.323 (33.60)
10	1.701 (43.20)	1.488 (37.80)
11	1.866 (47.40)	1.654 (42.00)
12	2.031 (51.60)	1.819 (46.20)

LEGEND:

5566 - N * * * * *

CIRCUIT SIZE
(04-12)

ASSEMBLY TYPE
A=W/O DRAIN HOLES
B=WITH DRAIN HOLES

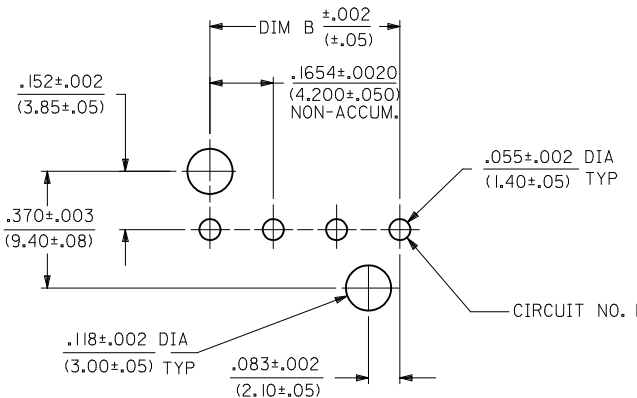
PEG AND LOCK OPTION
3=MTG. PEGS, POSITIVE LOCK
4=MTG. PEGS, PASSIVE LOCK

PLATING
(SEE NOTE 2)

HOUSING MAT'L
(SEE NOTE 1)

POSITIVE LOCK

PASSIVE LOCK



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

ADD PART #'S EC NO: UCP2010-1922 DRWN:TBENES 2009/02/10 CHKD:JBELL 2010/02/12 APPR:FSM TH 2010/02/15 REV	DESCRIPTION ▽=0 ▽=0	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
						IN/MM		1:1	METRIC	
						DRAWN BY DATE		TITLE		
						KSS 1989/02/19		VERTICAL HEADER ASSY		
						CHECKED BY DATE		W/ & W/O PEG & DRAIN HOLE		
						JTR 1989/02/19		MINI-FIT JR SINGLE ROW		
						APPROVED BY DATE		MOLEX MOLEX INCORPORATED		
						RAS 1989/02/19				
						MATERIAL NO.		DOCUMENT NO.		
						SEE CHART		SDA-5566-NL*		
				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				

SEE SHEET 1

EC NO: UCP2010-1922

2009/02/12

DRWN:TBENES

2010/02/12

CHKD:JBELL

2010/02/12

APPR:FSMITH

2010/02/15

M

REV

DESCRIPTION

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

4 PLACES

±

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3 PLACES

±

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2 PLACES

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1 PLACE

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±

ANGULAR

±

°

DRAFT WHERE APPLICABLE

MUST REMAIN

WITHIN DIMENSIONS

DIMENSION STYLE

IN/MM

DRAWN BY

DATE

GEP

1989/07/13

CHECKED BY

DATE

RJF

1989/07/13

APPROVED BY

DATE

RAS

1989/07/13

MATERIAL NO.

SEE CHART

SCALE

1:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

VERTICAL HEADER ASSY

W/ PEG AND DRAIN OPTIONS

MINI-FIT JR SINGLE ROW

MOLEX INCORPORATED

DOCUMENT NO.

SDA-5566-NL*

SHEET NO.

3 OF 4

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

POSITIVE LOCK WITH MTG. PEGS, 94V-2 BLACK HOUSING				PASSIVE LOCK WITH MTG. PEGS, 94V-2 BLACK HOUSING			
PART NO	ENG NO	CKT DRAIN SIZE/HOLE	PLATING OPTION	PART NO	ENG NO	CKT DRAIN SIZE/HOLE	
50-29-1528	5566-04A3-BL	04 NO	TIN OVER COPPER			04	
50-29-1529	5566-05A3-BL	05 NO	TIN OVER COPPER			05	
50-29-1530	5566-06A3-BL	06 NO	TIN OVER COPPER			06	
50-29-1531	5566-07A3-BL	07 NO	TIN OVER COPPER			07	
50-29-1532	5566-08A3-BL	08 NO	TIN OVER COPPER			08	
50-29-1533	5566-09A3-BL	09 NO	TIN OVER COPPER			09	
50-29-1534	5566-10A3-BL	10 NO	TIN OVER COPPER			10	
50-29-1535	5566-11A3-BL	11 NO	TIN OVER COPPER			11	
50-29-1536	5566-12A3-BL	12 NO	TIN OVER COPPER			12	
26-01-3162	5566-04A3S-BL	04 NO	TIN OVER NICKEL			04	
26-01-3163	5566-05A3S-BL	05 NO	TIN OVER NICKEL			05	
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SEE SHEET 1
EC NO: UCP2010-1922
2009/02/10
DRWN:TBENES
CHKD:JBELL
2010/02/12
APPR:FSMTH
2010/02/15

REVDESCRIPTION

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mmINCH
4 PLACES±---±---
3 PLACES±---±---
2 PLACES±---±---
1 PLACE±---±---
ANGULAR±---°
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM
DRAWN BY
AD RATNOL
DATE
2006/02/24
CHECKED BY
GPOLGAR
DATE
2006/02/24
APPROVED BY
JCOMERC I
DATE
2006/02/24
MATERIAL NO.
SEE CHART
SIZE
C

DIMENSION STYLE
IN/MM
DRAWN BY
AD RATNOL
DATE
2006/02/24
CHECKED BY
GPOLGAR
DATE
2006/02/24
APPROVED BY
JCOMERC I
DATE
2006/02/24
MATERIAL NO.
SEE CHART
SIZE
C

SCALE
1:1
DESIGN UNITS
METRIC
THIRD ANGLE
PROJECTION
TITLE
VERTICAL HEADER ASSY
W/& W/O PEG & DRAIN HOLE
MINI-FIT JR SINGLE ROW
MOLEX INCORPORATED
DOCUMENT NO.
SDA-5566-NL*
SHEET NO.
4 OF 4

A

B

POSITIVE LOCK WITH MTG PEGS, 94V-0 HOUSING MATERIAL				PASSIVE LOCK WITH MTG PEGS, 94V-0 HOUSING MATERIAL			
PART NUMBER	ENGINEERING NUMBER	OKT DRAIN SIZE/HOLE	PLATING OPTION	PART NUMBER	ENGINEERING NUMBER	OKT DRAIN SIZE/HOLE	PLATING OPTION
50-30-4466	5566-04B3S-210	04 YES	TIN OVER NICKEL			04	
50-30-4467	5566-05B3S-210	05 YES	TIN OVER NICKEL			05	
NO EDP	5566-06B3S-210	06 YES	TIN OVER NICKEL			06	
NO EDP	5566-07B3S-210	07 YES	TIN OVER NICKEL			07	
NO EDP	5566-08B3S-210	08 YES	TIN OVER NICKEL			08	
NO EDP	5566-09B3S-210	09 YES	TIN OVER NICKEL			09	
NO EDP	5566-10B3S-210	10 YES	TIN OVER NICKEL			10	
NO EDP	5566-11B3S-210	11 YES	TIN OVER NICKEL			11	
NO EDP	5566-12B3S-210	12 YES	TIN OVER NICKEL			12	
50-36-2356	5566-04A3S-210	04 NO	TIN OVER NICKEL			04	
50-36-2452	5566-05A3S-210	05 NO	TIN OVER NICKEL			05	
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