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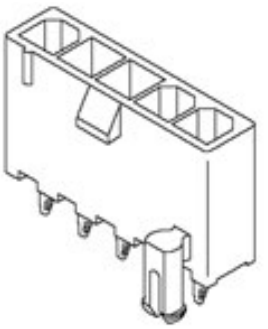
Part Number: 0050304467
Status: Active
Overview: minifit_jr
Description: 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Single Row, Vertical, with Snap-in Plastic Peg PCB Lock, 5 Circuits, PA Polyamide Nylon 6/6, UL 94V-0, Tin (Sn) Over Nickel (Ni) Plating



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)	5
Circuits (maximum)	5
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

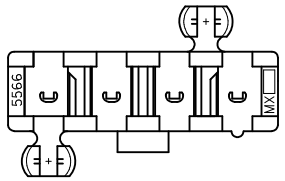
Old Part Number	5566-05B3S-210

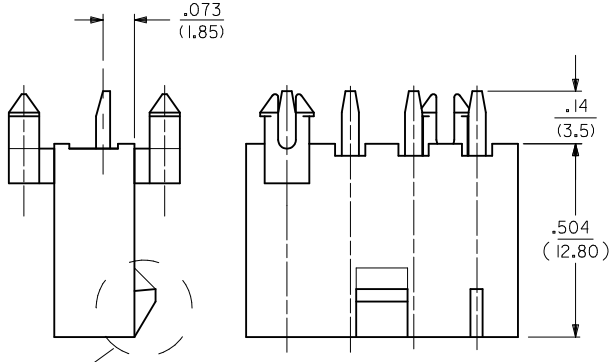
Reference - Drawing Numbers

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

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-5566-002
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

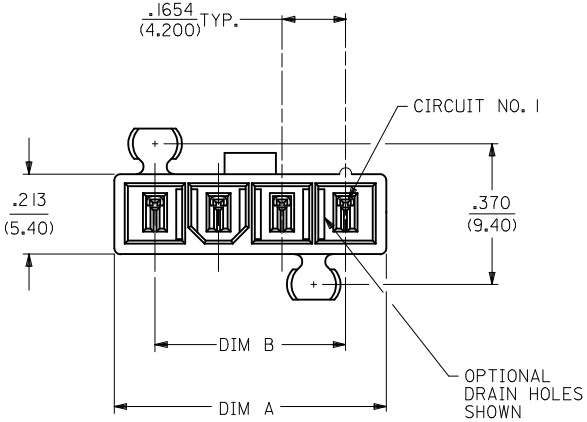
PEG AND LOCK OPTION
3=MTG. PEGS,POSITIVE LOCK
4=MTG. PEGS,PASSIVE LOCK

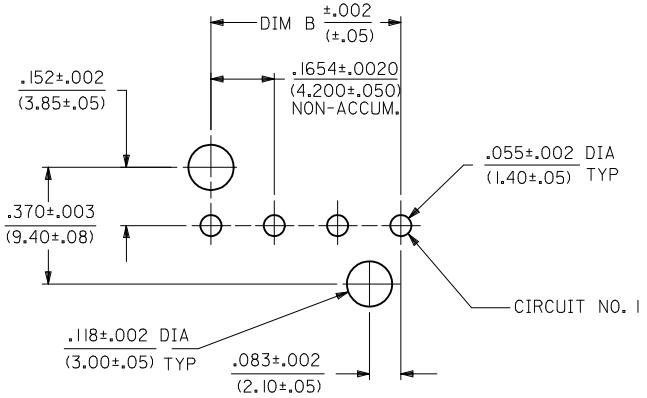
PLATING
(SEE NOTE 2)

HOUSING MAT'L
(SEE NOTE 1)

LOCK OPTION

POSITIVE LOCK PASSIVE LOCK





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

4	M
3	M
2	K1
1	M
SHEET	REV

ADD PART #'S
EC NO: UCP2010-1922 2009/02/10
DRWN:TRBENES 2010/02/12
CH'KD: JBELL 2010/02/15
APPR:FSMITH
DESCRIPTION
M
REV

QUALITY SYMBOLS
▼=0
▽C=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	KSS	DATE 1989/02/19
CHECKED BY	JTR	DATE 1989/02/19
APPROVED BY	RAS	DATE 1989/02/19

TITLE: VERTICAL HEADER ASSY W/& W/O PEG & DRAIN HOLE MINI-FIT JR SINGLE ROW

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-5566-NL*
SHEET NO.: 1 OF 4
SIZE: C

POSITIVE LOCK WITH MTG. PEGS, 94V-2 BLACK HOUSING

PART NO	ENG NO	CKT SIZE	DRAIN HOLE	PLATING OPTION
50-29-1528	5566-04A3-BL	04	NO	TIN OVER COPPER
50-29-1529	5566-05A3-BL	05	NO	TIN OVER COPPER
50-29-1530	5566-06A3-BL	06	NO	TIN OVER COPPER
50-29-1531	5566-07A3-BL	07	NO	TIN OVER COPPER
50-29-1532	5566-08A3-BL	08	NO	TIN OVER COPPER
50-29-1533	5566-09A3-BL	09	NO	TIN OVER COPPER
50-29-1534	5566-10A3-BL	10	NO	TIN OVER COPPER
50-29-1535	5566-11A3-BL	11	NO	TIN OVER COPPER
50-29-1536	5566-12A3-BL	12	NO	TIN OVER COPPER
26-01-3162	5566-04A3S-BL	04	NO	TIN OVER NICKEL
26-01-3163	5566-05A3S-BL	05	NO	TIN OVER NICKEL
		06		
		07		
		08		
		09		
		10		
		11		
		12		
		04		
		05		
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		08		
		09		
		10		
		11		
		12		

PASSIVE LOCK WITH MTG. PEGS, 94V-2 BLACK HOUSING

PART NO	ENG NO	CKT SIZE	DRAIN HOLE
		04	
		05	
		06	
		07	
		08	
		09	
		10	
		11	
		12	
		04	
		05	
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		10	
		11	
		12	

POSITIVE LOCK WITH MTG PEGS, 94V-2 HOUSING MATERIAL

PART NO	ENG NO	CKT SIZE	DRAIN HOLE	PLATING OPTION
39-30-5049	5566-04B3S	04	YES	TIN OVER NICKEL
NO EDP	5566-05B3S	05	YES	TIN OVER NICKEL
NO EDP	5566-06B3S	06	YES	TIN OVER NICKEL
NO EDP	5566-07B3S	07	YES	TIN OVER NICKEL
NO EDP	5566-08B3S	08	YES	TIN OVER NICKEL
NO EDP	5566-09B3S	09	YES	TIN OVER NICKEL
NO EDP	5566-10B3S	10	YES	TIN OVER NICKEL
NO EDP	5566-11B3S	11	YES	TIN OVER NICKEL
NO EDP	5566-12B3S	12	YES	TIN OVER NICKEL
50-36-2453	5566-04A3S	04	NO	TIN OVER NICKEL
50-36-2454	5566-05A3S	05	NO	TIN OVER NICKEL
		06		
		07		
		08		
		09		
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		11		
		12		

PASSIVE LOCK WITH MTG PEGS, 94V-2 HOUSING MATERIAL

PART NO	ENG NO	CKT SIZE	DRAIN HOLE	PLATING OPTION
		04		
		05		
		06		
		07		
		08		
		09		
		10		
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		12		

SEE SHEET 1

EC NO: UCP2010-1922 2009/02/12
DRWN: TRBENES 2010/02/12
CH'KD: JBELL 2010/02/15
APPR: FSMITH 2010/02/15
DESCRIPTION

M

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

	DRAWN BY	DATE
	GEP	1989/07/13
	CHECKED BY	DATE
	RJF	1989/07/13
	APPROVED BY	DATE
	RAS	1989/07/13

TITLE: VERTICAL HEADER ASSY W/ PEG AND DRAIN OPTIONS MINI-FIT JR SINGLE ROW

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART

DOCUMENT NO.: SDA-5566-NL*

SHEET NO.: 3 OF 4

SIZE: C

POSITIVE LOCK WITH MTG PEGS, 94V-0 HOUSING MATERIAL

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

PART NUMBER	ENGINEERING NUMBER	CKT SIZE	DRAIN HOLE	PLATING OPTION
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PART NUMBER	ENGINEERING NUMBER	CKT SIZE	DRAIN HOLE	PLATING OPTION
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PART NUMBER	ENGINEERING NUMBER	CKT SIZE	DRAIN HOLE	PLATING OPTION
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REV	DESCRIPTION
M	SEE SHEET 1 EC NO: UCP2010-1922 DRWN:TRBENES 2009/02/10 CH'KD:JBELL 2010/02/12 APPR:FSMITH 2010/02/15

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

		DATE
DRAWN BY	ADRATNOL	2006/02/24
CHECKED BY	GPOLGAR	2006/02/24
APPROVED BY	JCOMERCI	2006/02/24

TITLE
VERTICAL HEADER ASSY
W/& W/O PEG & DRAIN HOLE
MINI-FIT JR SINGLE ROW

molex MOLEX INCORPORATED

MATERIAL NO. SEE CHART

DOCUMENT NO. SDA-5566-NL*

SHEET NO. 4 OF 4

SIZE C