

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0039295243](#)  
**Status:** **Active**  
**Overview:** [minifit\\_jr](#)  
**Description:** 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Right Angle, with PCB Mounting Flange, 24 Circuits, PA Polyamide Nylon 6/6 94V-2, .0.76µm (30µ") Gold (Au) Plating

**Documents:**

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)

**Agency Certification**

CSA	LR19980
TUV	R72081037
UL	E29179

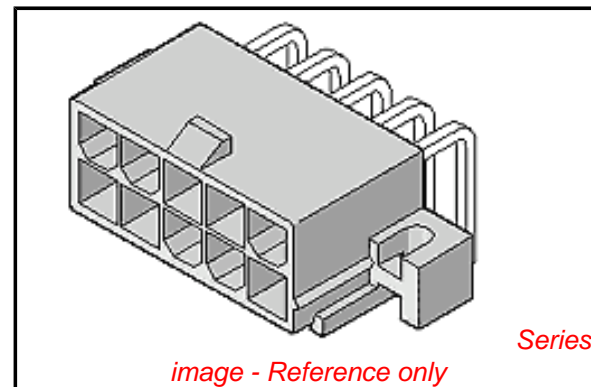
**General**

Product Family	PCB Headers
Series	<a href="#">5569</a>
Application	Wire-to-Board
Comments	Current = 13A max. per circuit when header is mated to a receptacle loaded with <a href="#">45750</a> 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.

Overview	<a href="#">minifit_jr</a>
Product Name	Mini-Fit Jr.™

**Physical**

Breakaway	No
Circuits (Loaded)	24
Circuits (maximum)	24
Circuits Detail	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	Gold
Material - Resin	Nylon
Number of Rows	2
Orientation	Right Angle
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
Pitch - Term. Interface (mm)	4.20 mm
Plating min: Mating (µin)	30.4



*image - Reference only*

**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC**  
 Not Reviewed  
**Halogen-Free Status**  
**Not Reviewed**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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

Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	30.4
Plating min: Termination (µm)	0.76
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**

Lead-free Process Capability	Wave Capable (TH only)
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**Material Info**

Old Part Number	5569-24AG1
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**Reference - Drawing Numbers**

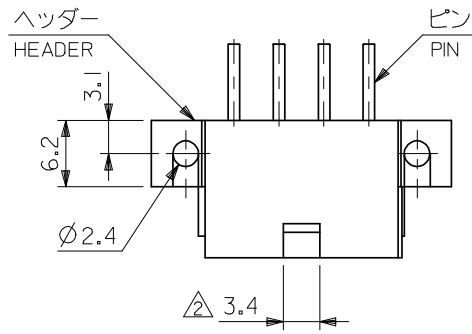
Packaging Specification	PK-5569-NA*
Sales Drawing	SD-5569-002

This document was generated on 05/21/2010

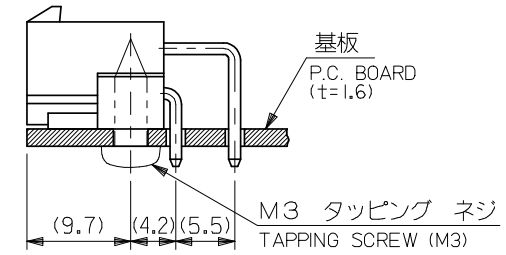
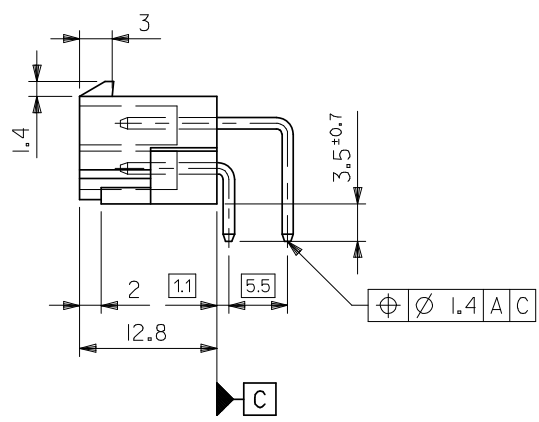
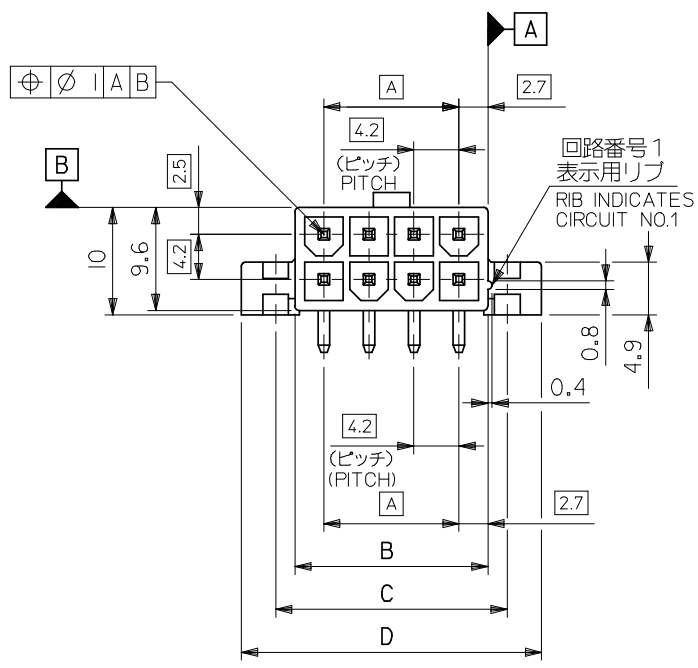
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注記

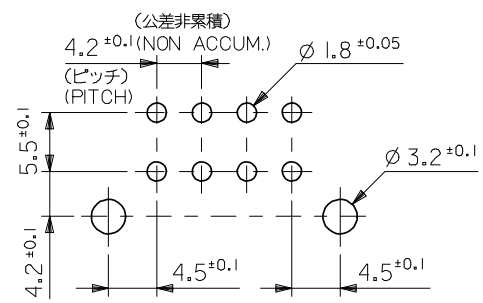
1. 嵌合相手: 5557 シリーズ  
MATES WITH: 5557 SERIES
2. 2極の場合のみ本寸法は 4.2  
IN CASE OF 2 CIRCUITS HEADER, THIS DIMENSION SHOULD BE 4.2mm.
3. 材料及びメッキ  
MATERIAL & FINISH



ENG. NO.	ヘッダー材料 HEADER MATERIAL	ピン材料 PIN MATERIAL	ピンのメッキ FINISH OF PIN
5569-NA1	ナイロン66, UL94V-2 NYLON 66, UL94V-2	黄銅 (□1.07)	銅下地錫メッキ TIN OVER COPPER
-NA1-210	ナイロン66, UL94V-0 NYLON 66, UL94V-0		金 : 0.76μm MIN. GOLD 0.76μm MIN. ニッケル下地 : 1.27μm MIN. OVER NICKEL 1.27μm MIN.
-NAG1	ナイロン66, UL94V-2 NYLON 66, UL94V-2		
5569-NAG1-210	ナイロン66, UL94V-0 NYLON 66, UL94V-0		



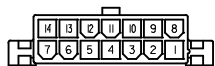
基板取付推奨寸法  
RECOMMENDED INSTALLATION PATTERN



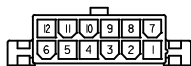
基板穴推奨寸法  
RECOMMENDED P.C. BOARD PATTERN

61.6	55.2	51.6	46.2	24
57.4	51	47.4	42	22
53.2	46.8	43.2	37.8	20
49	42.6	39	33.6	18
44.8	38.4	34.8	29.4	16
40.6	34.2	30.6	25.2	14
36.4	30	26.4	21	12
32.2	25.8	22.2	16.8	10
28	21.6	18	12.6	8
23.8	17.4	13.8	8.4	6
19.6	13.2	9.6	4.2	4
15.4	9	5.4	—	2
D	C	B	A	極数 CIRCUIT

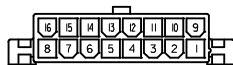
GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
10 UNDER	±0.2	DRAWN BY H. HIRAMOTO	DATE '90/04/23	NEW MINI FIT CONN R/A HEADER ASSY WITH FLANGE  MOLEX INCORPORATED SD-5569-002			
10 OVER 30 UNDER	±0.3	CHECKED BY M. FUKUSHIMA	DATE '91/07/04				
30 OVER	±0.4	APPROVED BY M. ENOMOTO	DATE '91/07/04				
ANGULAR	±3°	MATERIAL NO.	DOCUMENT NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SHEET NO. 1 OF 2			
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



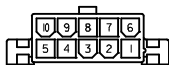
14極  
14 CKTS.



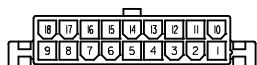
12極  
12 CKTS.



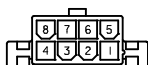
16極  
16 CKTS.



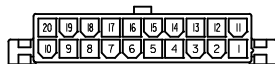
10極  
10 CKTS.



18極  
18 CKTS.



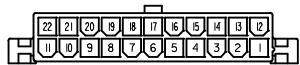
8極  
8 CKTS.



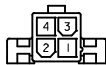
20極  
20 CKTS.



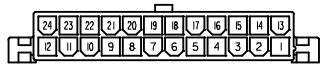
6極  
6 CKTS.



22極  
22 CKTS.



4極  
4 CKTS.



24極  
24 CKTS.



2極  
2 CKTS.

極数別レイアウト図  
CIRCUIT SIZE LAYOUT  
(SCALE 1:1)

39-29-4249	5569-24AG1-210	39-29-1247	5569-24A1-210	24
▲ -4229	▲ -22AG1-210	▲ -1227	▲ -22A1-210	22
-4209	-20AG1-210	-1207	-20A1-210	20
-4189	-18AG1-210	-1187	-18A1-210	18
-4169	-16AG1-210	-1167	-16A1-210	16
-4149	-14AG1-210	-1147	-14A1-210	14
-4129	-12AG1-210	-1127	-12A1-210	12
-4109	-10AG1-210	-1107	-10A1-210	10
-4089	-08AG1-210	-1087	-08A1-210	8
-4069	-06AG1-210	-1067	-06A1-210	6
▼ -4049	▼ -04AG1-210	▼ -1047	▼ -04A1-210	4
39-29-4029	5569-02AG1-210	39-29-1027	5569-02A1-210	2
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	極数
5569-NAG1-210		5569-NA1-210		CIRCUIT
39-29-5243	5569-24AG1	39-29-1248	5569-24A1	24
▲ -5223	▲ -22AG1	▲ -1228	▲ -22A1	22
-5203	-20AG1	-1208	-20A1	20
-5183	-18AG1	-1188	-18A1	18
-5163	-16AG1	-1168	-16A1	16
-5143	-14AG1	-1148	-14A1	14
-5123	-12AG1	-1128	-12A1	12
-5103	-10AG1	-1108	-10A1	10
-5083	-08AG1	-1088	-08A1	8
-5063	-06AG1	-1068	-06A1	6
▼ -5043	▼ -04AG1	▼ -1048	▼ -04A1	4
39-29-5023	5569-02AG1	39-29-1028	5569-02A1	2
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	極数
5569-NAG1		5569-NA1		CIRCUIT

REVISED EC NO.: J2008-3781 DRWN:MMABEI 2008/05/12 CHKD:MI SOGAYA 2008/05/12 APPR:NUKITA 2008/05/12	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	10 UNDER	±0.2	DRAWN BY H.HIRAMOTO	DATE '90/04/23	TITLE NEW MINI FIT CONN R/A HEADER ASSY WITH FLANGE		
	10 OVER 30 UNDER	±0.3	CHECKED BY M.FUKUSHIMA	DATE '91/07/04	MATERIAL NO. SEE TABLE		
	30 OVER	±0.4	APPROVED BY M.ONOMOTO	DATE '91/07/04	DOCUMENT NO. SD-5569-002		
	ANGULAR ±3 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	SHEET NO. 2 OF 2		