

Distributed by:

JAMECO[®]
ELECTRONICS

www.Jameco.com ♦ 1-800-831-4242

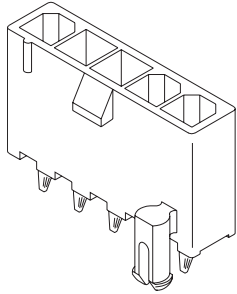
The content and copyrights of the attached
material are the property of its owner.

Jameco Part Number 1968937

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5566

Vertical, Single Row With Pegs



Features and Benefits

- Positive housing locks to mate with Mini-Fit Jr. single row receptacles 5557
- Fully isolated terminals to protect contacts from damage
- Peg-mounted vertical headers for increased board retention
- Drain holes are standard to allow washing of PCB after processing (contact Molex for headers without drain holes)

Reference Information

Packaging: Tube or bag
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 single row receptacle
PCB Thickness: 1.60mm (.062")
Process: Wave solder
Designed In: Millimeters

Electrical

Voltage: 600V
Current: (Used with 16 AWG)

Series	Circuits			
	2-3	4-6	7-10	12-24
46083	9.0A	8.0A	7.0A	6.0A

Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 1500V AC
Insulation Resistance: 1000 Megohms min.

Mechanical

Insertion Force to PCB: 5.0kg max.
Durability: 30 cycles

Physical

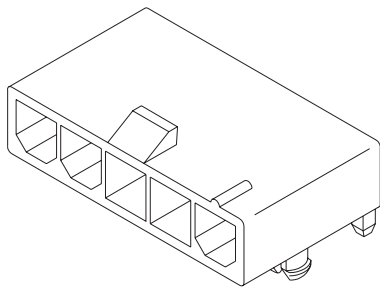
Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact: Brass or Phosphor Bronze
Plating: Tin or Select Gold
Underplating: Nickel
Operating Temperature: -40 to +105°C

Circuits	Order No.				Lead-free
	Tin Plated		Select Gold Plated (30µ")		
	94V-2	94V-0	94V-2	94V-0	
3	39-30-5039	39-30-6030	39-30-2037	39-30-2038	Yes
4	39-30-5049	50-30-4466	39-30-2047	39-30-2048	
5		50-30-4467		39-30-2058	

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5569

Right Angle, Single Row With Pegs



Features and Benefits

- Pegs provide increased board retention
- Ideal for low profile power applications
- Positive housing locks to mate with Mini-Fit Jr. single row receptacles 5557
- Fully isolated terminals to protect contacts from damage

Reference Information

Packaging: Tray or bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 5557 single row receptacle
TUV License No.: R75142
PCB Thickness: 1.60mm (.062")
Process: Wave solder
Designed In: Millimeters

Electrical

Voltage: 600V
Current: (Used with 16 AWG)

Series	Circuits			
	2-3	4-6	7-10	12-24
46083	9.0A	8.0A	7.0A	6.0A
45750	12.0A	12.0A	12.0A	11.0A

Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 1500V AC
Insulation Resistance: 1000 Megohms min.

Mechanical

Insertion Force to PCB: 5.0kg max.
Durability: 30 cycles

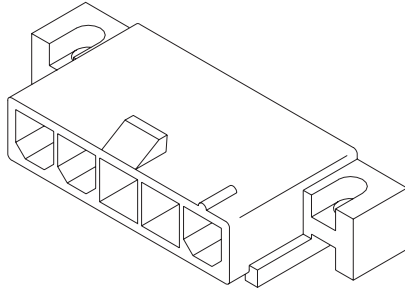
Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact: Brass
Plating: Tin or Select Gold
Underplating: Nickel
Operating Temperature: -40 to +105°C

Circuits	Order No.				Lead-free
	Tin Plated		Select Gold Plated		
	94V-2	94V-0	94V-2	94V-0	
3	39-30-7031	39-30-7032	39-30-4031	39-30-4032	Yes
4	39-30-7041	39-30-7042	50-30-4438	50-30-4441	
5	39-30-7051	39-30-7052	50-30-4439	50-30-4442	

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5569
Right Angle, Single Row
With Flanges



Features and Benefits

- Flanges allow for screw-in retention to board-mounted headers
- Low profile is ideal for power applications with space constraints

Reference Information

Packaging: Tray or bag
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 single row receptacle
PCB Thickness: 1.60mm (.062")
Process: Wave solder
Designed In: Millimeters

Electrical

Voltage: 600V
Current: (Used with 16 AWG)

Series	Circuits			
	2-3	4-6	7-10	12-24
46083	9.0A	8.0A	7.0A	6.0A
45750	12.0A	12.0A	12.0A	11.0A

Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 1500V AC
Insulation Resistance: 1000 Megohms min.

Mechanical

Insertion Force to PCB: 5.0kg max.
Durability: 30 cycles

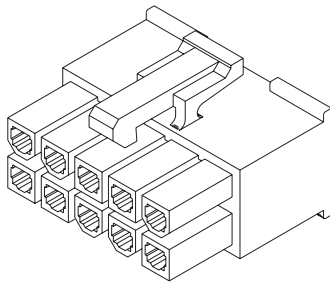
Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact: Brass
Plating: Tin or Select Gold
Underplating: Nickel
Operating Temperature: -40 to +105°C

Circuits	Order No.				Lead-free
	Tin Plated		Select Gold Plated		
	94V-2	94V-0	94V-2	94V-0	
3	39-30-6039	39-30-7030	39-30-4037	39-30-4038	Yes
4	39-30-6049		50-30-4443		

4.20mm (.165") Pitch Mini-Fit Jr.™ Receptacle

5557
Dual Row



Features and Benefits

- Positive housing lock for secure mating retention
- Fully isolated terminals to protect contacts from damage
- Thumb latch for easy unmating

Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5559, 5566, 5569, 42404, 42440, 42475, 43810, 43879 and 44068 dual row connectors
Use With: 5556, 46083 or 45750 terminals
Designed In: Millimeters

Electrical

Current: (Used with 16 AWG)

Series	Circuits			
	2-3	4-6	7-10	12-24
46083	9.0A	8.0A	7.0A	6.0A
45750	12.0A	12.0A	12.0A	11.0A

Mechanical

Contact Insertion Force: 1.5kg max.
Contact Retention to Housing: 3.0kg min.

Physical

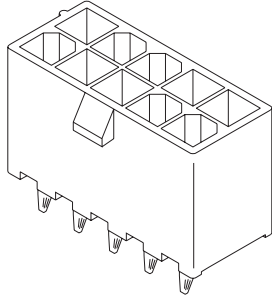
Housing: 6/6 nylon, UL 94V-2 or 94V-0
Operating Temperature: -40 to +105°C

Circuits	Order No.		Circuits	Order No.	
	94V-2	94V-0		94V-2	94V-0
2	39-01-2020	39-01-2025	14	39-01-2140	39-01-2145
4	39-01-2040	39-01-2045	16	39-01-2160	39-01-2165
6	39-01-2060	39-01-2065	18	39-01-2180	39-01-2185
8	39-01-2080	39-01-2085	20	39-01-2200	39-01-2205
10	39-01-2100	39-01-2105	22	39-01-2220	39-01-2225
12	39-01-2120	39-01-2125	24	39-01-2240	39-01-2245

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5566

Vertical, Dual Row
Without Pegs, without Drain Holes



Features and Benefits

- Positive housing locks to mate with Mini-Fit Jr. receptacle
- Fully isolated terminals to protect contacts from damage
- Drain hole option available, contact Molex

Reference Information

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 dual row receptacles
PCB Thickness: 1.60mm (.062")
Process: Wave solder
Designed In: Millimeters

Electrical

Voltage: 600V
Current: (Used with 16 AWG)

Series	Circuits			
	2-3	4-6	7-10	12-24
46083	9.0A	8.0A	7.0A	6.0A

Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 1500V AC
Insulation Resistance: 1000 Megohms min.

Mechanical

Insertion Force to PCB: 5.0kg max.
Durability: 30 cycles

Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact: Brass or Phosphor Bronze
Plating: Tin
Underplating: Copper
Operating Temperature: -40 to +105°C

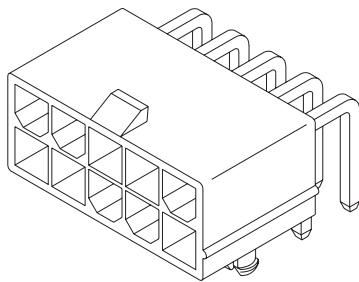
Circuits	Order No.		Lead-free
	94V-2	94V-0	
2	39-28-1023	39-28-8020	Yes
4	39-28-1043	39-28-8040	
6	39-28-1063	39-28-8060	
8	39-28-1083	39-28-8080	
10	39-28-1103	39-28-8100	
12	39-28-1123	39-28-8120	

Circuits	Order No.		Lead-free
	94V-2	94V-0	
14	39-28-1143	39-28-8140	Yes
16	39-28-1163	39-28-8160	
18	39-28-1183	39-28-8180	
20	39-28-1203	39-28-8200	
22	39-28-1223	39-28-8220	
24	39-28-1243	39-28-8240	

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5569

Right Angle, Dual Row with Pegs



Features and Benefits

- Board mounting pegs provide polarization during placement on PCB and increased board retention during solder processing
- Low profile for space constraints
- Positive housing locks
- Fully isolated terminals to protect contacts from damage

Reference Information

Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557 dual row receptacles
PCB Thickness: 1.60mm (.062")
Process: Wave Solder
Designed In: Millimeters

Electrical

Voltage: 600V
Current: (Used with 16 AWG)

Series	Circuits			
	2-3	4-6	7-10	12-24
46083	9.0A	8.0A	7.0A	6.0A
45750	12.0A	12.0A	12.0A	11.0A

Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 1500V AC
Insulation Resistance: 1000 Megohms min.

Mechanical

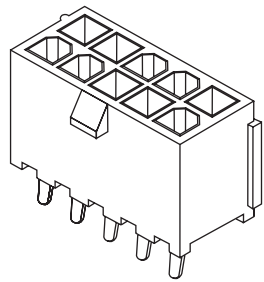
Insertion Force to PCB: 5.0kg max.
Durability: 30 cycles

Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact: Brass
Plating: Tin or Select Gold
Underplating: Nickel
Operating Temperature: -40 to +105°C

Circuits	Order No.				Lead-free
	Tin Plated		Select Gold Plated (30µ")		
	94V-2	94V-0	94V-2	94V-0	
2	39-30-7025	39-30-7026	39-30-0023	39-30-0024	Yes
4	39-30-7045	39-30-7046	39-30-0043	39-30-0044	
6	39-30-7065	39-30-7066	39-30-0063	39-30-0064	
8	39-30-7085	39-30-7086	39-30-0083	39-30-0084	
10	39-30-7105	39-30-7106	39-30-0103	39-30-0104	
12	39-30-7125	39-30-7126	39-30-0123	39-30-0124	
14	39-30-7145	39-30-7146	39-30-0143	39-30-0144	
16	39-30-7165	39-30-7166	39-30-0163	39-30-0164	
18	39-30-7185		39-30-0183		
20	39-30-7205	39-30-7206	39-30-0203	39-30-0204	
22	39-30-7225				
24	39-30-7245	39-30-7246	39-30-0243	39-30-0244	

4.20mm (.165") Pitch Mini-Fit Jr.™ Wire-to-Board Header

87427
**Vertical without Flanges
High Temperature Material**


Features and Benefits

- Sizes 2 to 24 circuits
- Molded in high temperature, surface mount compatible material
- Fully isolated terminals to protect contacts from damage

Reference Information

Product Specification: PS-87427-0001
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 5557 dual row receptacle
 Designed in: Millimeters

Electrical

Voltage: 600V
 Current: (Used with 16 AWG)

Circuits	2-3	4-6	7-10	12-24
Jr.	9.0A	8.0A	7.0A	6.0A
HCS	12.0A	11.0A	10.0A	9.0A

Contact Resistance: 10 milliohms max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 1000 Megohms min.

Mechanical

Pin Retention Force: 9.81N (2.2 lb) min.
 Mating Force: 14.23N (3.19 lb) max.
 Unmating Force: 0.50N (0.11 lb) max.
 Durability: 30 cycles

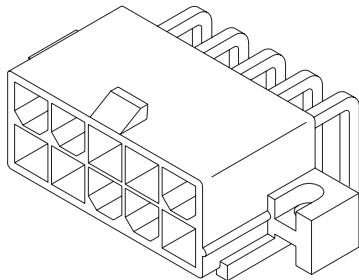
Physical

Housing: 4/6 Nylon, UL 94V-0
 Contact: Brass (1.07 square)
 Plating: Tin
 Operating Temperature: -40 to +105°C

Circuits	Order No.		Lead-free
	Tin Over Nickel Plating	Tin Over Copper Plating	
2	87427-0242	87427-0243	Yes
4	87427-0442	87427-0443	
6	87427-0642	87427-0643	
8	87427-0842	87427-0843	
10	87427-1042	87427-1043	
12	87427-1242	87427-1243	

Circuits	Order No.		Lead-free
	Tin Over Nickel Plating	Tin Over Copper Plating	
14	87427-1442	87427-1443	Yes
16	87427-1642	87427-1643	
18	87427-1842	87427-1843	
20	87427-2042	87427-2043	
22	87427-2242	87427-2243	
24	87427-2442	87427-2443	

4.20mm (.165") Pitch Mini-Fit Jr.™ Header

5569
**Right Angle, Dual Row
With Flanges**


Features and Benefits

- Flanges allow for screw-in retention to board-mounted header
- Low profile for space constraints
- Positive housing locks

Reference Information

Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 TUV License No.: R75142
 Mates With: 5557 dual row receptacles
 PCB Thickness: 1.60mm (.062")
 Process: Wave solder
 Designed In: Millimeters

Electrical

Voltage: 600V
 Current: (Used with 16 AWG)

Series	Circuits			
	2-3	4-6	7-10	12-24
46083	9.0A	8.0A	7.0A	6.0A
45750	12.0A	12.0A	12.0A	11.0A

Contact Resistance: 10 milliohms max.
 Dielectric Withstanding Voltage: 1500V AC
 Insulation Resistance: 1000 Megohms min.

Mechanical

Insertion Force to PCB: 5.0kg max.
 Durability: 30 cycles

Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0
 Contact: Brass
 Plating: Tin
 Underplating: Copper
 Operating Temperature: -40 to +105°C

Circuits	Order No.		Lead-free
	94V-2	94V-0	
2	39-29-1028	39-29-1027	Yes
4	39-29-1048	39-29-1047	
6	39-29-1068	39-29-1067	
8	39-29-1088	39-29-1087	
10	39-29-1108	39-29-1107	
12	39-29-1128	39-29-1127	

Circuits	Order No.		Lead-free
	94V-2	94V-0	
14	39-29-1148	39-29-1147	Yes
16	39-29-1168	39-29-1167	
18	39-29-1188	39-29-1187	
20	39-29-1208	39-29-1207	
22	39-29-1228	39-29-1227	
24	39-29-1248	39-29-1247	



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

【 3. 定格及び適用電線 RATINGS AND APPLICABLE WIRES 】

項 目 Item	規 格 Standard		
最大許容電圧 Rated Voltage (MAX.)	600V		[AC (実効値 rms) /DC]
最大許容電流及び適用電線 Rated Current (MAX.) and Applicable Wires	AWG #18	5A	被覆外径: ϕ 1.3mm $\sim$ ϕ 3.1mm Insulation O.D.
	AWG #20	4A	
	AWG #22	3A	
	AWG #24	2A	
使用温度範囲 Ambient Temperature Range	-40 $\sim$ +105°C ^{*1}		

*1: 通電による温度上昇分を含む。
Including terminal temperature rise.

	REVISE ON PC ONLY		TITLE: NEW MINI FIT CONN. 製品仕様書
	B	SEE SHEET 1 OF 9	
	REV.	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
DOCUMENT NUMBER PS-5557-021			FILE NAME PS5557021.doc
			SHEET 2 OF 9

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

【 4. 性能 PERFORMANCE 】

4-1. 電気的性能 Electrical Performance

項 目 Item		条 件 Test Condition	規 格 Requirement
4-1-1	接触抵抗 Contact Resistance	コネクタを嵌合させ、開放電圧 20mV 以下、短絡電流 10mA にて測定する。 (JIS C5402 5.4) Mate connectors, measure by dry circuit, 20mV MAX., 10mA. (JIS C5402 5.4)	10 milliohm MAX.
4-1-2	絶縁抵抗 Insulation Resistance	コネクタを嵌合させ、隣接するターミナル間及びターミナル、アース間に DC 500V を印加し測定する。 (JIS C5402 5.2/MIL-STD-202 試験法 302 試験条件B) Mate connectors and apply 500V DC between adjacent terminal or ground. (JIS C5402 5.2/MIL-STD-202 Method 302 Cond. B)	1000 Megohm MIN.
4-1-3	耐電圧 Dielectric Strength	コネクタを嵌合させ、隣接するターミナル間及びターミナル、アース間に AC(rms) 1500V(実効値) を 1分間 印加する。 (JIS C5402 5.1/MIL-STD-202 試験法 301) Mate connectors and apply 1000V AC(rms) for 1 minute between adjacent terminal or ground. (JIS C5402 5.1/MIL-STD-202 Method 301)	異状無きこと No Breakdown
4-1-4	圧着部接触抵抗 Contact Resistance on Crimped Portion	ターミナルに適合電線を圧着し、開放電圧20mV以下、短絡電流10mAにて測定する。 Crimp the applicable wire on to the terminal, measure by dry circuit, 20mV MAX., 10mA.	5 milliohm MAX.

	REVISE ON PC ONLY		TITLE: NEW MINI FIT CONN. 製品仕様書	
	B	SEE SHEET 1 OF 9		
	REV.	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DOCUMENT NUMBER PS-5557-021			FILE NAME PS5557021.doc
EN-37-1(019)				



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

4-2. 機械的性能 Mechanical Performance

項 目 Item		条 件 Test Condition		規 格 Requirement
4-2-1	挿入力及び 抜去力 Insertion and Withdrawal Force	毎分 $25\pm 3\text{mm}$ の速さで挿入、抜去を行う。 Insert and withdraw connectors at the speed rate of $25\pm 3\text{mm}$ /minute.		第 6 項参照 See para 6.
4-2-2	圧着部 引張り強度 Crimping Pull Out Force	圧着されたターミナルを治具に固定し、電線を軸方向に毎分 $25\pm 3\text{mm}$ の速さで引張る。 (JIS C5402 6.8) Fix the crimped terminal, apply axial pull out force on the wire at the speed rate of $25\pm 3\text{mm}/\text{minute}$ MIN. (JIS C5402 6.8)	AWG #18	88.2N {9.0kgf}MIN.
			AWG #20	58.8N {6.0kgf}MIN.
			AWG #22	39.2N {4.0kgf}MIN.
			AWG #24	29.4N {3.0kgf}MIN.
4-2-3	ターミナル挿入力 Terminal Insertion Force	圧着されたターミナルをハウジングに挿入する。 Insert the crimped terminal into the housing.		14.7N {1.5kgf}MAX.
4-2-4	ターミナル 保持力 Terminal/Housing Retention Force	圧着されたターミナルをハウジングに装着し、電線を軸方向に毎分 $25\pm 3\text{mm}$ の速さで引っ張る。 Apply axial pull out force at a speed rate of $25\pm 3\text{mm}/\text{minute}$ on the terminal assembled in the housing.		29.4N{3.0kgf} MIN.
4-2-5	ピン保持力 Pin Retention Force	毎分 $25\pm 3\text{mm}$ の速さでピンを軸方向に押す。 Apply axial push force at the speed rate of $25\pm 3\text{mm}/\text{minute}$.		9.8N{1.0kgf} MIN.

REVISE ON PC ONLY

TITLE:

B

SEE SHEET 1 OF 9

NEW MINI FIT CONN.

製品仕様書

THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO
MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

REV.

DESCRIPTION

DOCUMENT NUMBER

PS-5557-021

FILE NAME

PS5557021.doc

SHEET

4 OF 9

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

4-3. その他 Environmental Performance and Others

項 目 Item		条 件 Test Condition	規 格 Requirement	
4-3-1	繰り返し挿抜 Repeated Insertion / Withdrawal	1分間 10回以下 の速さで挿入、抜去を 30回 繰り返す。 When mated up to 30 cycles repeatedly by the rate of 10 cycles/minute.	接触抵抗 Contact Resistance	20 milliohm MAX.
4-3-2	温度上昇 Temperature Rise	コネクタを嵌合させ、最大許容電流を通電し、 コネクタの温度上昇分を測定する。 (UL 498) Carrying rated current load. (UL 498)	温 度 上 昇 Temperature Rise	30°C MAX.
4-3-3	耐振動性 Vibration	DC 1mA 通電状態にて、嵌合軸を含む互いに 垂直な 3方向 に掃引割合 10~55~10Hz/分、 全振幅 1.5mm の振動を 各2時間 加える。 (MIL-STD-202 試験法 201A) Amplitude: 1.5 mm P-P Sweep time: 10-55-10 Hz in 1 minute Duration: 2 hours in each X.Y.Z. axes (MIL STD-202 Method 201A)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
			瞬 断 Discontinuity	1.0 microsec. MAX.
4-3-4	耐衝撃性 Shock	DC 1mA 通電状態にて、嵌合軸を含む互いに 垂直な 6方向 に、490m/s ² { 50G } の衝撃を 各3回 加える。 (JIS C0041/MIL-STD-202 試験法 213B 試験条件 A) 490m/s ² { 50G }, 3 strokes in each X.Y.Z. axes. (JIS C0041/MIL-STD-202 Method 213B Cond. A)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
			瞬 断 Discontinuity	1.0 microsec. MAX.
4-3-5	耐熱性 Heat Resistance	コネクタを嵌合させ、105±2°C の雰囲気中 に 96時間 放置後取り出し、1~2時間 室温 に放置する。 (JIS C0021/MIL-STD-202 試験法 108A) 105±2°C, 96 hours (JIS C0021/MIL-STD-202 Method 108A)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.

REVISE ON PC ONLY

TITLE:

B

SEE SHEET 1 OF 9

NEW MINI FIT CONN.

製品仕様書

REV.

DESCRIPTION

THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO
MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DOCUMENT NUMBER

PS-5557-021

FILE NAME

PS5557021.doc

SHEET

5 OF 9

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

項 目 Item		条 件 Test Condition	規 格 Requirement	
4-3-6	耐寒性 Cold Resistance	コネクタを嵌合させ、-40±3℃ の雰囲気中に 96時間 放置後取り出し、1～2時間 室温に放 置する。 (JIS C0020) -40±3℃, 96 hours (JIS C0020)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
4-3-7	耐湿性 Humidity	コネクタを嵌合させ、60±2℃、相対湿度 90 ～95% の雰囲気中に 96時間 放置後取り出 し、1～2時間 室温に放置する。 (JIS C0022/MIL-STD-202 試験法103B 試験条件B) Temperature : 60±2℃ Relative Humidity : 90 to 95% Duration : 96 hours (JIS C0022/MIL-STD-202 Method 103B Cond. B)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
			耐 電 圧 Dielectric Strength	4-1-3項 満足こと Must meet 4-1-3
			絶縁抵抗 Insulation Resistance	100 Megohm MIN.
4-3-8	温度サイクル Temperature Cycling	コネクタを嵌合させ、-55℃ に 30分、+105℃ に 30分、これを 1サイクル とし、5サイク ル 繰り返す。但し、温度移行時間は、5分以 内 とする。試験後 1～2時間 室温に放置す る。(JIS C0025) 5 cycles of : a) -55℃ 30 minutes b) +105℃ 30 minutes (JIS C0025)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.

REVISE ON PC ONLY

TITLE:

B

SEE SHEET 1 OF 9

NEW MINI FIT CONN.

製品仕様書

REV.

DESCRIPTION

THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO
MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DOCUMENT NUMBER

PS-5557-021

FILE NAME

PS5557021.doc

SHEET

6 OF 9

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

項 目 Item		条 件 Test Condition	規 格 Requirement	
4-3-9	塩水噴霧 Salt Spray	コネクタを嵌合させ、 $35\pm 2^{\circ}\text{C}$ にて、重量比 $5\pm 1\%$ の塩水を 48 ± 4 時間 噴霧し、試験後常温で水洗いした後、室温で乾燥させる。 (JIS C5028/MIL-STD-202 試験法 101D 試験条件B) 48 ± 4 hours exposure to a salt spray from the $5\pm 1\%$ solution at $35\pm 2^{\circ}\text{C}$. (JIS C0023/MIL-STD-202 Method 101D Cond. B)	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
4-3-10	亜硫酸ガス SO_2 Gas	コネクタを嵌合させ、 $40\pm 2^{\circ}\text{C}$ にて 50 ± 5 ppm の亜硫酸ガス中に 24時間 放置する。 24 hours exposure to 50 ± 5 ppm. SO_2 gas at $40\pm 2^{\circ}\text{C}$.	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	20 milliohm MAX.
4-3-11	半田付け性 Solder Ability	ターミナルまたはピンをフラックスに浸し、本体の取付け基準面より 1.2mm 迄、 $245\pm 3^{\circ}\text{C}$ の半田に 3 ± 0.5 秒 浸す。 Solder Time : 3 ± 0.5 seconds. Solder Temperature : $245\pm 3^{\circ}\text{C}$	濡 れ 性 Solder Wetting	浸漬面積の75%以上 75% of immersed area must show no voids, pin holes.
4-3-12	半田耐熱性 Resistance to Soldering Heat	ターミナルまたはピンを本体の取付け基準面より 1.2mm 迄、 $260\pm 5^{\circ}\text{C}$ の半田に 5 ± 0.5 秒 浸す。 Solder Time : 5 ± 0.5 seconds.. Solder Temperature : $260\pm 5^{\circ}\text{C}$	外 観 Appearance	端子ガタ割れ等 異常なきこと No Damage

() : 参考規格 Reference Standard

{ } : 参考単位 Reference Unit

【 5. 外観形状、寸法及び材質 PRODUCT SHAPE, DIMENSIONS AND MATERIALS 】

図面参照 Refer to the drawing.

	REVISE ON PC ONLY		TITLE: NEW MINI FIT CONN. 製品仕様書		
	B	SEE SHEET 1 OF 9			
			THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
	REV.	DESCRIPTION			
DOCUMENT NUMBER PS-5557-021				FILE NAME PS5557021.doc	SHEET 7 OF 9

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

【 6. 挿入力及び抜去力 INSERTION / WITHDRAWAL FORCE 】

極数 No. of CKT.	単位 Unit	挿入力（最大値） Insertion Force (MAX.)			抜去力（最小値） Withdrawal Force (MIN.)		
		初回 1st	6回目 6th	30回目 30th	初回 1st	6回目 6th	30回目 30th
2	N {kgf}	28.4 {2.9}	26.4 {2.7}	26.4 {2.7}	1.0 {0.10}	0.8 {0.08}	0.8 {0.08}
4	N {kgf}	56.8 {5.8}	52.9 {5.4}	52.9 {5.4}	2.0 {0.20}	1.6 {0.16}	1.6 {0.16}
6	N {kgf}	85.3 {8.7}	79.4 {8.1}	79.4 {8.1}	3.0 {0.30}	2.4 {0.24}	2.4 {0.24}
8	N {kgf}	113.7 {11.6}	105.9 {10.8}	105.9 {10.8}	4.0 {0.40}	3.2 {0.32}	3.2 {0.32}
10	N {kgf}	142.2 {14.5}	132.4 {13.5}	132.4 {13.5}	4.9 {0.50}	4.0 {0.40}	4.0 {0.40}
12	N {kgf}	170.6 {17.4}	158.9 {16.2}	158.9 {16.2}	5.9 {0.60}	4.7 {0.48}	4.7 {0.48}
14	N {kgf}	199.1 {20.3}	185.4 {18.9}	185.4 {18.9}	6.9 {0.70}	5.5 {0.56}	5.5 {0.56}
16	N {kgf}	227.5 {23.2}	211.8 {21.6}	211.8 {21.6}	7.9 {0.80}	6.3 {0.64}	6.3 {0.64}
18	N {kgf}	256.0 {26.1}	238.3 {24.3}	238.3 {24.3}	8.9 {0.90}	7.1 {0.72}	7.1 {0.72}
20	N {kgf}	284.4 {29.0}	264.8 {27.0}	264.8 {27.0}	9.9 {1.00}	7.9 {0.80}	7.9 {0.80}
22	N {kgf}	312.9 {31.9}	291.3 {29.7}	291.3 {29.7}	10.8 {1.10}	8.7 {0.88}	8.7 {0.88}
24	N {kgf}	341.3 {34.8}	317.8 {32.4}	317.8 {32.4}	11.8 {1.20}	9.5 {0.96}	9.5 {0.96}

REVISE ON PC ONLY

TITLE:

B

SEE SHEET 1 OF 9

NEW MINI FIT CONN.

製品仕様書

THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO
MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

REV.

DESCRIPTION

DOCUMENT NUMBER

PS-5557-021

FILE NAME

PS5557021.doc

SHEET

8 OF 9

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

REV.	REV. RECORD	DATE	EC NO.	WRITTEN BY :	CHECKED BY :
0	RELEASED	'88/08/23	J80696	S.M	H.H
A	REVISED	'90/10/08	J01068	H.H	Y.Y
B	REVISED	'06/02/20	J2006-2643	M.NABEI	K.TOYODA

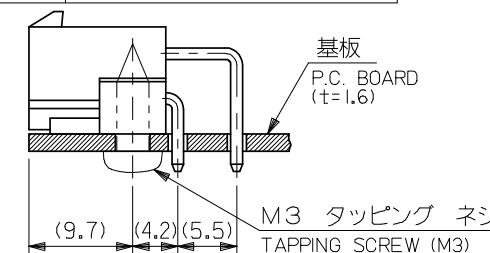
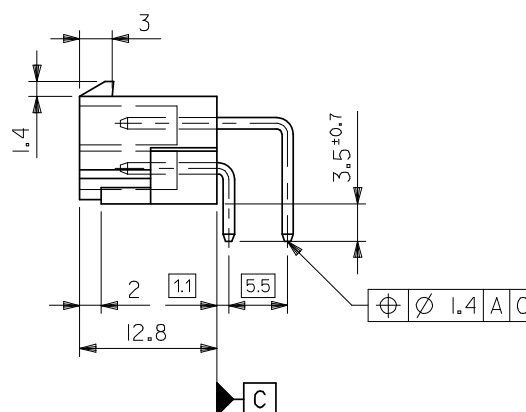
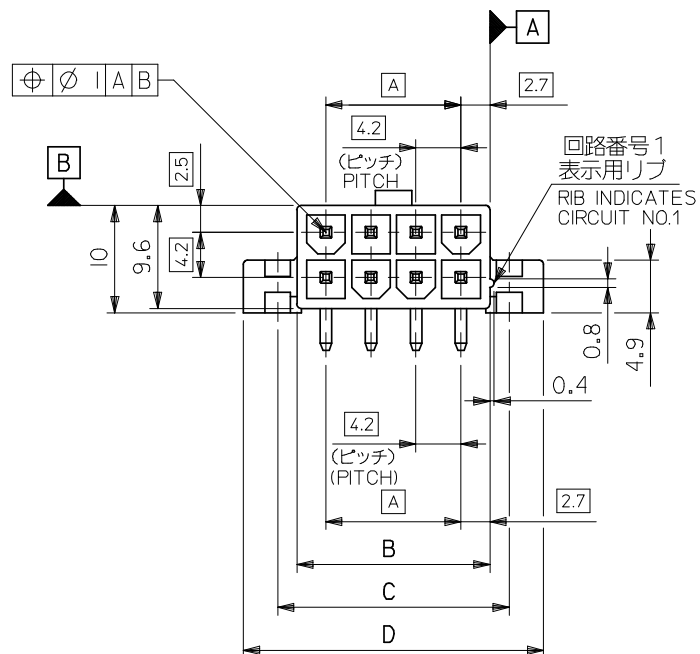
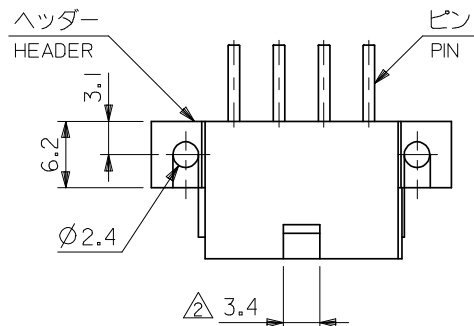
	REVISE ON PC ONLY		TITLE: NEW MINI FIT CONN. 製品仕様書	
	B	SEE SHEET 1 OF 9		
	REV.	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
DOCUMENT NUMBER PS-5557-021			FILE NAME PS5557021.doc	SHEET 9 OF 9

EN-37-1(019)

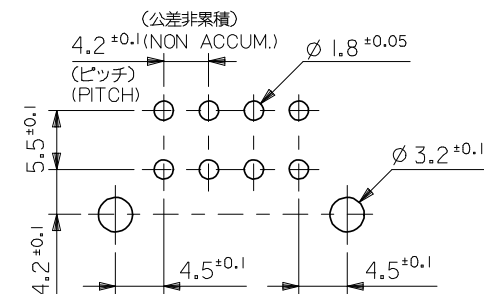
注記

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) BRASS (1.07 SQUARE)	銅下地錫メッキ TIN OVER COPPER
↑ -NA1-210	ナイロン66, UL94V-0 NYLON 66, UL94V-0		
↓ -NAG1	ナイロン66, UL94V-2 NYLON 66, UL94V-2		金 : 0.76μm MIN. GOLD 0.76μm MIN.
5569-NAG1-210	ナイロン66, UL94V-0 NYLON 66, UL94V-0		ニッケル下地 : 1.27μm MIN. OVER NICKEL 1.27μm MIN.



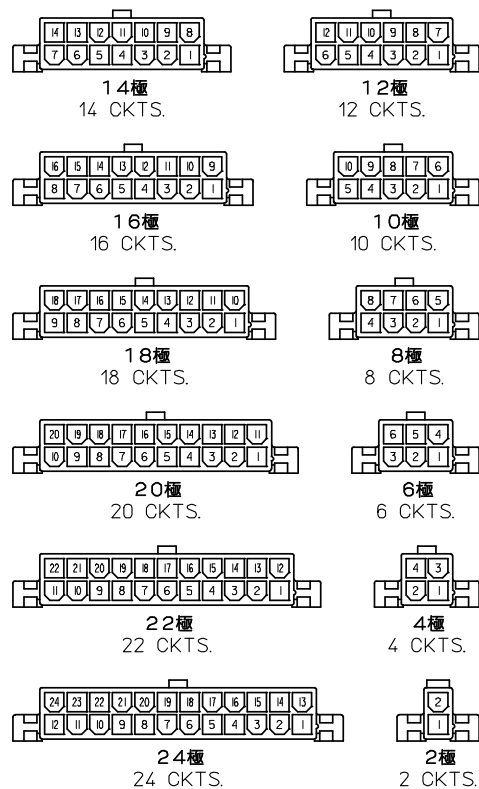
基板取付推奨寸法
RECOMMENDED INSTALLATION PATTERN



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

REVISED EC NO: J2008-3781 2008/05/12 DRWN:MWABEI 2008/05/12 CHKD:M ISOGAYA 2008/05/12 APPR:NUKITA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
				MM ONLY		2:1	METRIC			
		10 UNDER	± 0.2	DRAWN BY	DATE	NEW MINI FIT CONN R/A HEADER ASSY WITH FLANGE				
		10 OVER 30 UNDER	± 0.3	CHECKED BY	DATE					
		30 OVER	± 0.4	APPROVED BY	DATE	MOLEX INCORPORATED				
		ANGULAR ±3 °	MATERIAL NO.	DOCUMENT NO.	SHEET NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-5569-002		1 OF 2		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										



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

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

REVISED EC NO: J2008-3781 DRWN:WABEL CHKD:MISOGAYA APPR:NUKITA	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				DRAWN BY DATE H.HIRAMOTO '90/04/23		NEW MINI FIT CONN R/A HEADER ASSY WITH FLANGE			
		10 UNDER	± 0.2	CHECKED BY DATE M.FUKUSHIMA '91/07/04					
		10 OVER 30 UNDER	± 0.3	APPROVED BY DATE M.ENOMOTO '91/07/04					
		30 OVER	± 0.4	MATERIAL NO.					
		ANGULAR ±3 °		SEE TABLE					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				