

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0039281123

Status:

Active

Overview:

[minifit_jr](#)

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, without Snap-in Plastic Peg PCB Lock, 12 Circuits, PA Polyamide Nylon 6/6 94V-2, Tin (Sn) Plating, without Drain Holes

Documents:

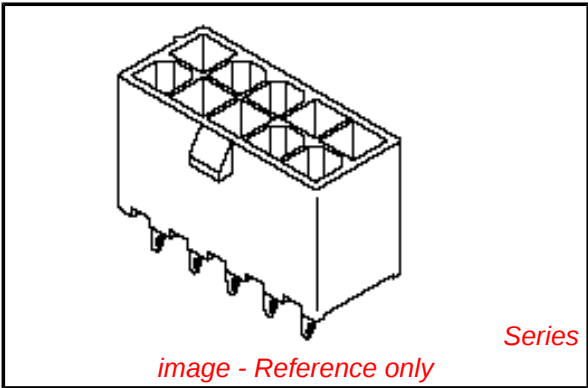
[3D Model](#)

[Drawing \(PDF\)](#)

[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.. Glow Wire Equivalent Part Number 50361886 . Square Pin, Solder Type
MolexKits	Yes
Overview	minifit_jr
Product Name	Mini-Fit Jr.™

Physical	
Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
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	Tin
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	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.165 In



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Contains SVHC: No

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 - Mating Interface (mm)	4.20 mm
Pitch - Term. Interface (in)	0.165 In
Pitch - Term. Interface (mm)	4.20 mm
Plating min: Mating (µin)	35
Plating min: Mating (µm)	0.90
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

Material Info

Old Part Number	5566-12A
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Reference - Drawing Numbers

Packaging Specification	PK-5566, SPK-5566-002
Product Specification	RPS-5557-045, RPS-5566-002
Sales Drawing	SD-5566-002, SD-5566-NA**-*

This document was generated on 06/08/2010

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CIRCUIT SIZE	DIM. "A"	DIM. "B"
2	.21 (5.4)	—
4	.38 (9.6)	.17 (4.2)
6	.54 (13.8)	.33 (8.4)
8	.71 (18.0)	.50 (12.6)
10	.87 (22.2)	.66 (16.8)
12	1.04 (26.4)	.83 (21.0)
14	1.20 (30.6)	.99 (25.2)
16	1.37 (34.8)	1.16 (29.4)
18	1.54 (39.0)	1.32 (33.6)
20	1.70 (43.2)	1.49 (37.8)
22	1.87 (47.4)	1.65 (42.0)
24	2.03 (51.6)	1.82 (46.2)

LEGEND

BASE NUMBER 5566 - N * * * * *
 CIRCUIT SIZE
 ASS'Y TYPE
 A : WITHOUT DRAIN HOLES
 B : WITH DRAIN HOLES
 TERMINAL MATERIAL
 SEE NOTE 1
 TERMINAL PLATING
 SEE NOTE 2
 HOUSING MATERIAL
 SEE NOTE 1
 COLOR OR PACKAGING
 BL : BLACK RE : RED GR : GRAY
 BU : BLUE YE : YELLOW GRE : GREEN
 TA : TRAY PACKAGING SEE NOTE 4

NOTES:

1. MATERIALS:

HOUSING:

'BLANK'=NYLON 6/6, UL94V-2, COLOR: NATURAL

210=NYLON 6/6, UL94V-0, COLOR: NATURAL

400=NYLON 6/6, UL94V-0, COLOR: BLACK

TERMINALS:

"BLANK" = BRASS

"PB" = PHOSPHOR BRONZE

2. TERMINAL PLATING:

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

OVER COPPER .000020/(0.00050) MIN. (BRASS)

TIN .000035/(0.00090) MIN. REFLOW TREATMENT

OR BRIGHT TIN .000035/(0.00090) MIN. (PHOSPHOR BRONZE)

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

.000050/(0.00127) MIN. NICKEL

"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

3. PRODUCT SPECIFICATION: PS-5556-001

4. PACKAGING: "BLANK"= BULK PACKED, "TA"=TRAY PACK PER PK-5566-001

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

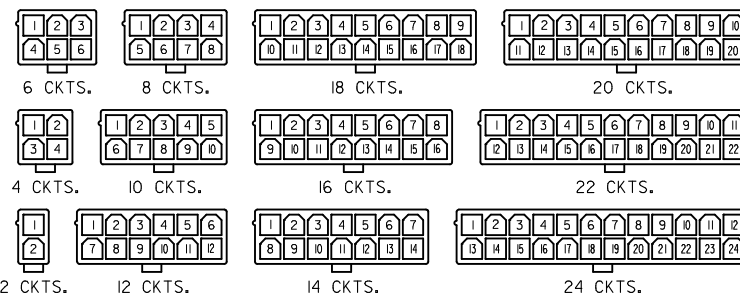
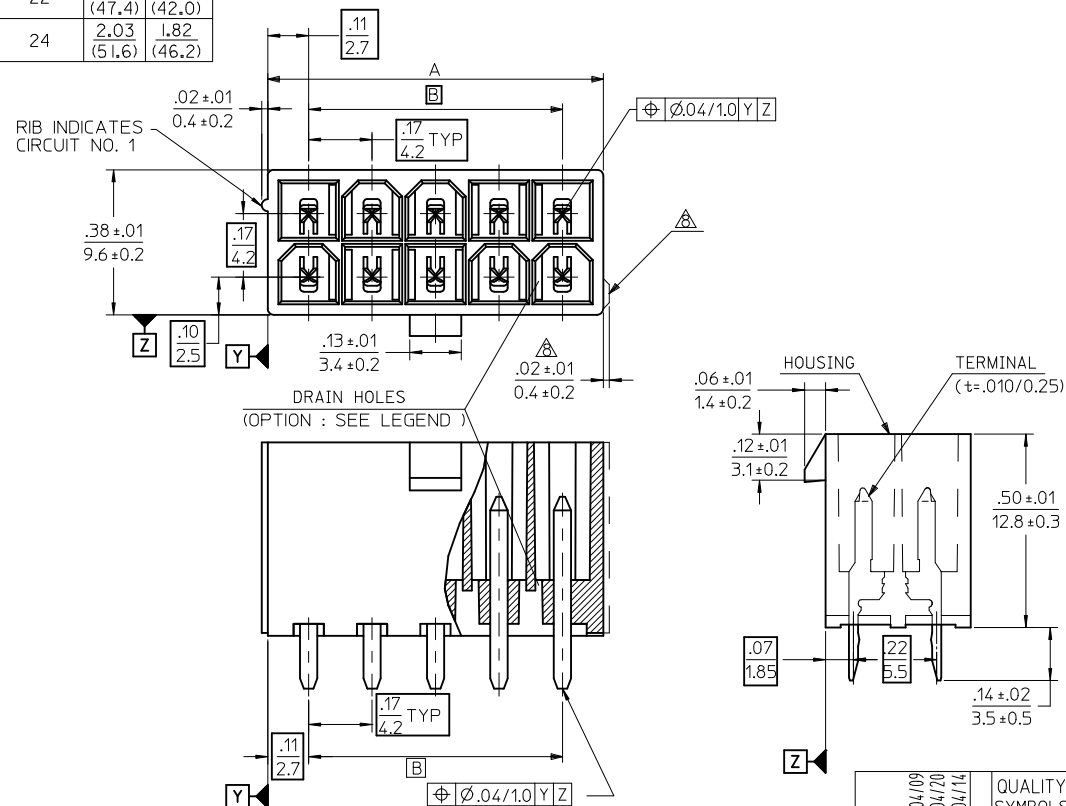
6. PART IS NOT DESIGNED FOR CURRENT SHARING.

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

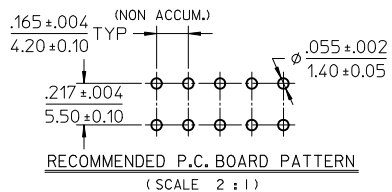
WHILE CIRCUITS ARE LIVE.

⚠ ANTI-SHINGLING RIB MAY OR MAY NOT APPEAR ON HOUSINGS.

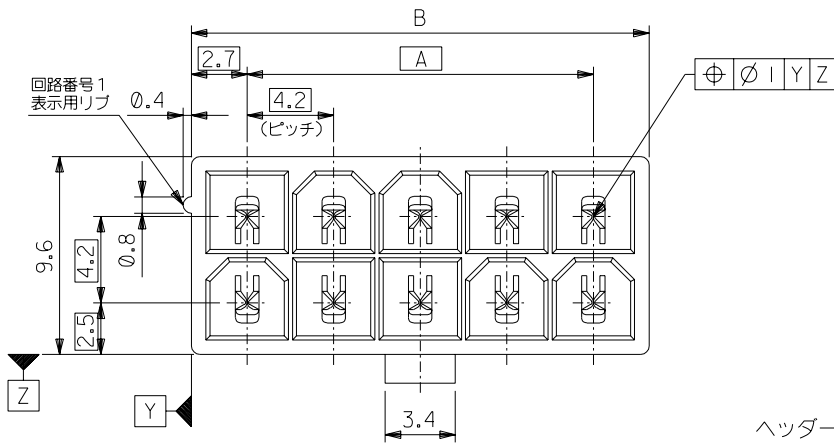
9. PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



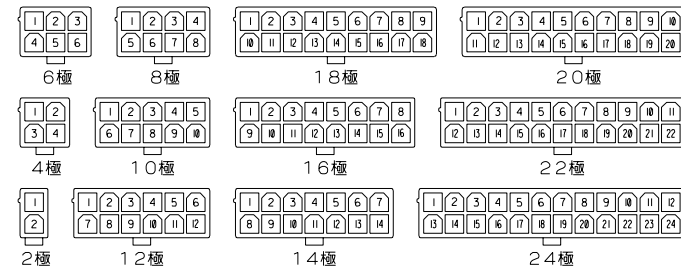
CIRCUIT SIZE LAYOUT



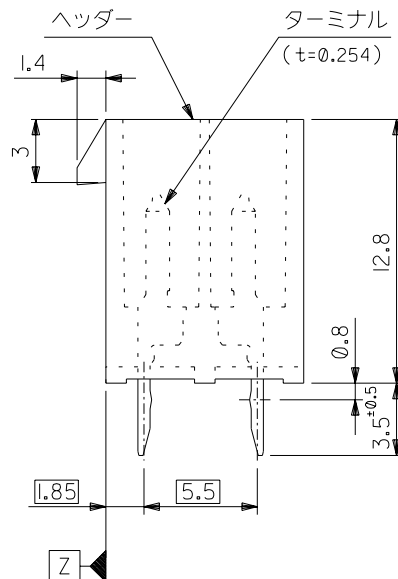
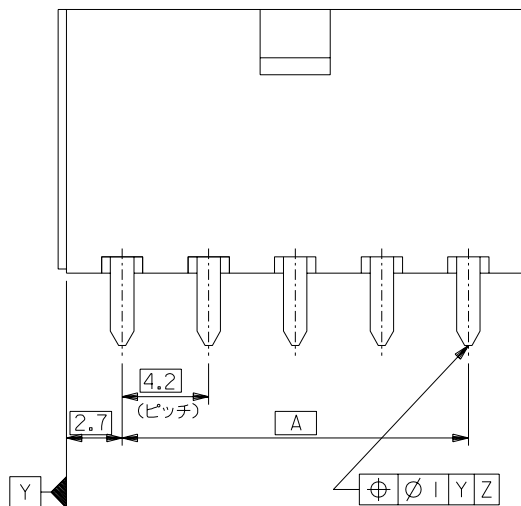
CORRECTED PN EC NO: UCP2010-2614 DRWN: JAGUILAR CHKD: J.BELL APPR: F.S.MTH 2010/04/09 2010/04/20 2010/04/14	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			mm		INCH		DRAWN BY H.HIRAMOTO	DATE '89/04/03	TITLE NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-				
			4 PLACES ± ---		± ---		CHECKED BY M.FUKUSHIMA	DATE '94/04/20					
			3 PLACES ± ---		± .005		APPROVED BY M.FUKUSHIMA		DATE '94/04/20	MOLEX INCORPORATED			
			2 PLACES ± .13		± .010								
			1 PLACE ± .25		± ---		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-5566-002				
			ANGULAR ± 3 °				SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										



51.6	46.2	24
47.4	42	22
43.2	37.8	20
39	33.6	18
34.8	29.4	16
30.6	25.2	14
26.4	21	12
22.2	16.8	10
18	12.6	8
13.8	8.4	6
9.6	4.2	4
5.4	—	2
寸法 B	寸法 A	極数



極数別レイアウト図
(SCALE 1:1)



注 記

1. 嵌合相手 : 5557シリーズ

2. 使用符号の説明

ベースナンバー 5566 - N A * * - *

極数

アッセンブリー

ターミナル材料

"BLANK" : 黄銅

PB : リン青銅

ターミナルのメッキ

"BLANK" : 錫メッキ 0.9μm MIN.

GS : ニッケル 1.27μm MIN. 全面下地

コンタクト部 金 0.76μm MIN.

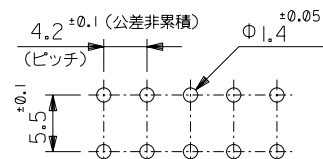
半田付け部 錫 2.54μm MIN.

ヘッダー材料

"BLANK" : ナイロン 66, UL 94V-2

210 : ナイロン 66, UL 94V-0

400 : ナイロン 66, UL 94V-0, 黒



基板穴推奨寸法
(SCALE 2:1)

						材料 MATERIAL	MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社	
						注記 2 参照	EDP. NO. SHEET 2 OF 2 参照	
						仕上げ FINISH 注記 2 参照	ENG. NO. SHEET 1 OF 2 SD-5566-NA***	
角度 ANGLE	±3°	F	変更 (J2004-4431)	M.N. K.T.	04/5/26	適用電線範囲 WIRE RANGE	— —	REV F
30°以上 OVER	±0.4 ±0.3	E	変更 (J00638)	H.H.	00/6/8	被覆外径 INS. RANGE	— —	
10°以上 30°未満 OVER UNDER	±0.3 ±0.25	D	変更&再作図 (J00510)	H.H. Y.Y.	00/5/7	DRAWN BY '89/5/7 H.HIRAMOTO	CHK'D BY '91/10/29 M.FUKUSHIMA	TITLE 名称 NEW MINI FIT CONNECTOR
10°未満 UNDER	±0.2	記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE	APP'D BY '91/10/29 M.ENOMOTO	尺 度 SCALE 4 - 1	HEADER ASS'Y -LEAD FREE-
一般公差 GENERAL TOLERANCES		REVISE ONLY ON CAD SYSTEM						

		8	7	6	5	4	3	2	1		
ENC. NO SD-5566-NA**-*	EDP NO. 表 参照							39-35-0248	5566-24A-400	24	F
								▲ -0228	▲ -22A-400	22	
								-0208	-20A-400	20	
								-0188	-18A-400	18	
								-0168	-16A-400	16	
								-0148	-14A-400	14	
								-0128	-12A-400	12	
								-0108	-10A-400	10	
								-0088	-08A-400	8	
								-0068	-06A-400	6	
						▼ -0048	▼ -04A-400	4	E		
						39-35-0028	5566-02A-400	2			
						EDP NO.	ENG. NO	極数			
						5566-NA-400					
		39-29-5247	5566-24APB-210	39-29-6248	5566-24AGS-210	39-28-8240	5566-24A-210	24	D		
		▲ -5227	▲ -22APB-210	▲ -6228	▲ -22AGS-210	▲ -8220	▲ -22A-210	22			
		-5207	-20APB-210	-6208	-20AGS-210	-8200	-20A-210	20			
		-5187	-18APB-210	-6188	-18AGS-210	-8180	-18A-210	18			
		-5167	-16APB-210	-6168	-16AGS-210	-8160	-16A-210	16			
		-5147	-14APB-210	-6148	-14AGS-210	-8140	-14A-210	14			
		-5127	-12APB-210	-6128	-12AGS-210	-8120	-12A-210	12			
		-5107	-10APB-210	-6108	-10AGS-210	-8100	-10A-210	10			
		-5087	-08APB-210	-6088	-08AGS-210	-8080	-08A-210	8			
		▼ -5067	▼ -06APB-210	▼ -6068	▼ -06AGS-210	▼ -8060	▼ -06A-210	6			
		▼ -5047	▼ -04APB-210	▼ -6048	▼ -04AGS-210	▼ -8040	▼ -04A-210	4	C		
		39-29-5027	5566-02APB-210	39-29-6028	5566-02AGS-210	39-28-8020	5566-02A-210	2			
		EDP NO.	ENG. NO	EDP NO.	ENG. NO	EDP NO.	ENG. NO	極数			
		5566-NAPB-210		5566-NAGS-210		5566-NA-210					
		39-29-5246	5566-24APB	39-29-0243	5566-24AGS	39-28-1243	5566-24A	24		B	
		▲ -5226	▲ -22APB	▲ -0223	▲ -22AGS	▲ -1223	▲ -22A	22			
		-5206	-20APB	-0203	-20AGS	-1203	-20A	20			
		-5186	-18APB	-0183	-18AGS	-1183	-18A	18			
		-5166	-16APB	-0163	-16AGS	-1163	-16A	16			
		-5146	-14APB	-0143	-14AGS	-1143	-14A	14			
-5126	-12APB	-0123	-12AGS	-1123	-12A	12					
-5106	-10APB	-0103	-10AGS	-1103	-10A	10					
-5086	-08APB	-0083	-08AGS	-1083	-08A	8					
-5066	-06APB	-0063	-06AGS	-1063	-06A	6					
		▼ -5046	▼ -04APB	▼ -0043	▼ -04AGS	▼ -1043	▼ -04A	4	A		
		39-29-5026	5566-02APB	39-29-0023	5566-02AGS	39-28-1023	5566-02A	2			
		EDP NO.	ENG. NO	EDP NO.	ENG. NO	EDP NO.	ENG. NO	極数			
		5566-NAPB		5566-NAGS		5566-NA					
							材料 MATERIAL	molex MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社			
							注記 2 参照				
							仕上げ FINISH	EDP. NO. 表 参照			
							注記 2 参照				
							適用電線範囲 WIRE RANGE	ENG. NO. SHEET 2 OF 2 SD-5566-NA**-*			
							被覆外径 INS. RANGE				
					DRAWN BY '90/5/7 H.HIRAMOTO	TITLE 名称 NEW MINI FIT CONNECTOR HEADER ASS'Y -LEAD FREE-					
					CHK'D BY '91/10/29 M.FUKUSHIMA						
					APP'D BY '91/10/29 M.ENOMOTO	尺 度 SCALE					