

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0039281223

Status:

Active

Overview:

[minifit_jr](#)

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, without Snap-in Plastic Peg PCB Lock, 22 Circuits, PA Polyamide Nylon 6/6 94V-2, Tin (Sn) Plating, without Drain Holes

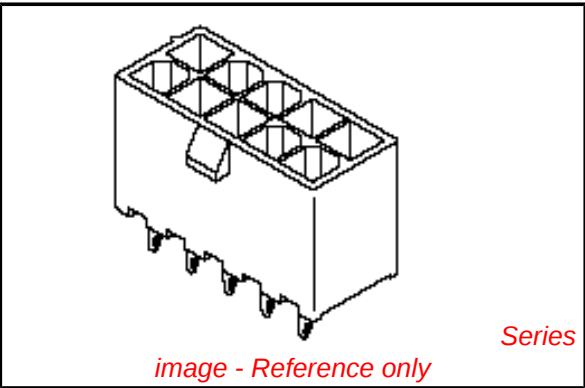
Documents:

[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.. High Temperature, Square Pin, Solder Type	
Overview	minifit_jr	
Product Name	Mini-Fit Jr.™	
Physical		
Breakaway	No	
Circuits (Loaded)	22	
Circuits (maximum)	22	
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	
Pitch - Mating Interface (mm)	4.20 mm	



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 - 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	5566-22A
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Reference - Drawing Numbers

Packaging Specification	PK-5566, SPK-5566-002
Sales Drawing	SD-5566-002, SD-5566-NA**-*

This document was generated on 05/21/2010

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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.

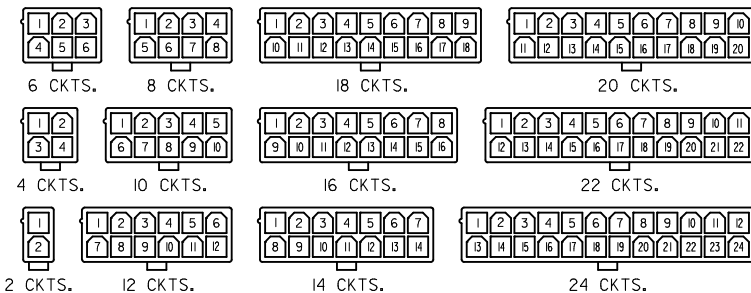
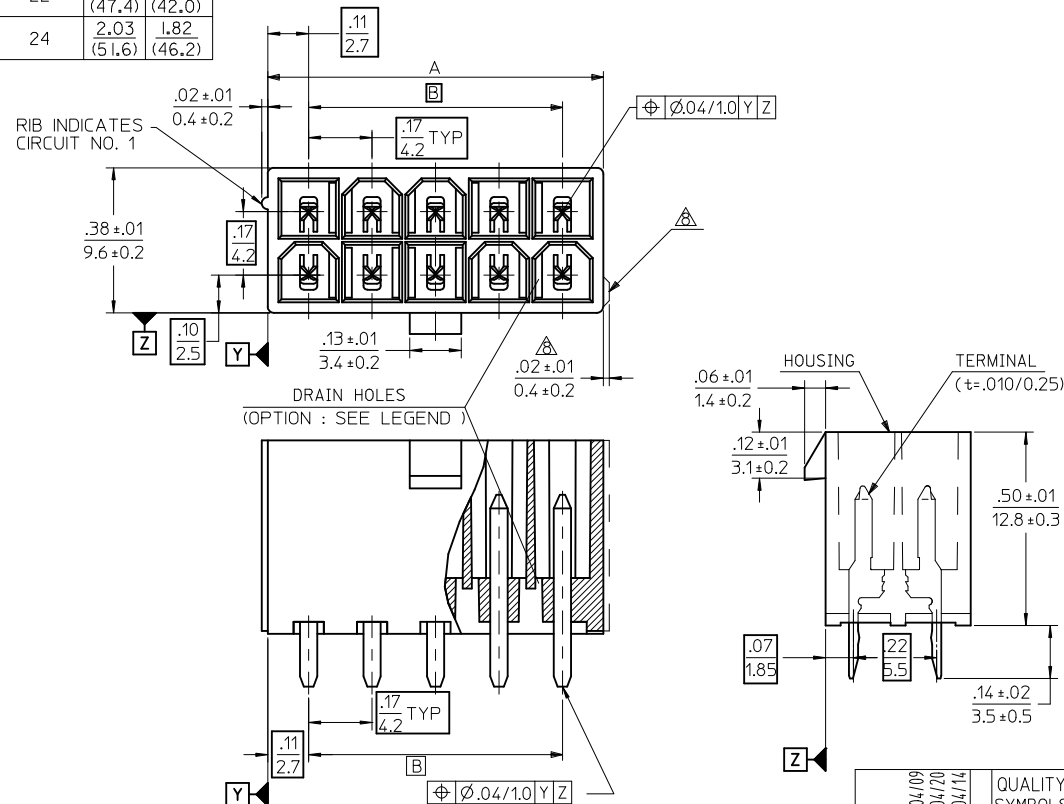
6. PART IS NOT DESIGNED FOR CURRENT SHARING.

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

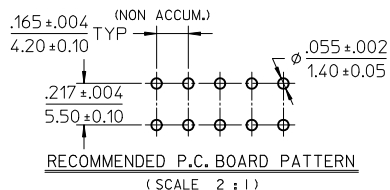
WHILE CIRCUITS ARE LIVE.

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

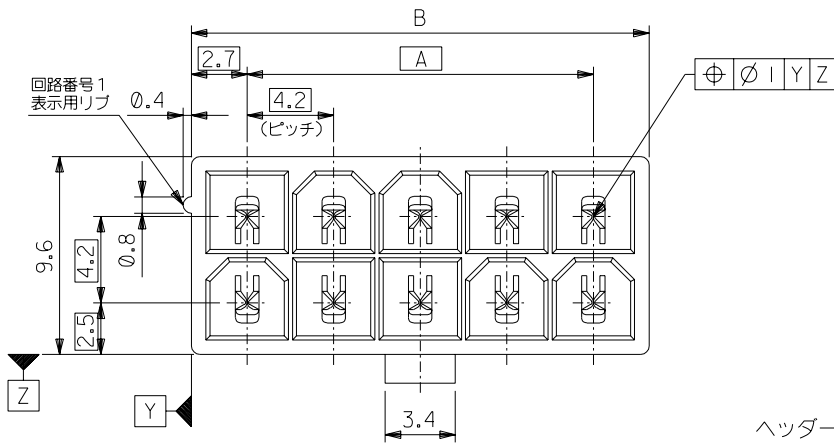
9. PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



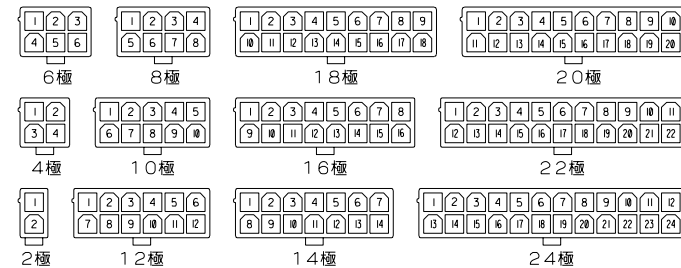
CIRCUIT SIZE LAYOUT



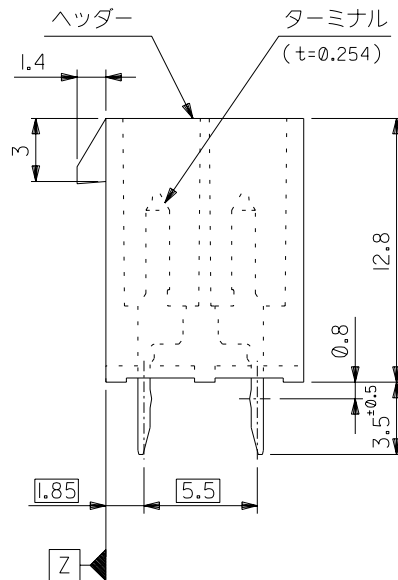
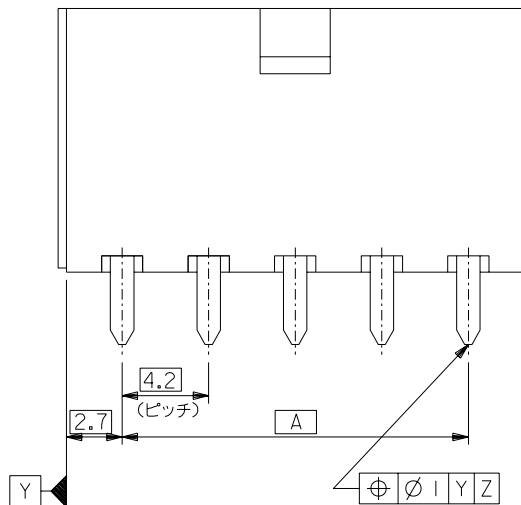
CORRECTED PN EC NO: UCP2010-2614 DRWN: JAGUILAR CHKD: J.BELL APPR: F.S.MITH REV L3	2010/04/09 2010/04/20 2010/04/14		QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY DATE H. HIRAMOTO '89/04/03		TITLE NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-			
	4 PLACES ± --- ± ---				CHECKED BY DATE M. FUKUSHIMA '94/04/20		MOLEX MOLEX INCORPORATED					
	3 PLACES ± --- ± .005											
	2 PLACES ± .13 ± .010				APPROVED BY DATE M. FUKUSHIMA '94/04/20		DOCUMENT NO. SD-5566-002					
	1 PLACE ± .25 ± ---						SHEET NO. 1 OF 6					
	ANGULAR ± 3 °											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SEE TABLE							
					SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



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

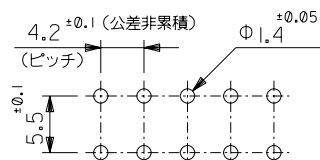
1. 嵌合相手 : 5557シリーズ

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 REV. F	
角度 ANGLE	±3°	F	変更 (J2004-4431)	M.N. K.T.	04/5/26	適用電線範囲 WIRE RANGE	— —	SD-5566-NA***	
30°以上 OVER	±0.4 ±0.3	E	変更 (J00638)	H.H.	06/16/8	被覆外径 INS. RANGE	— —	TITLE 名称	
10°以上 OVER 30°未満 UNDER	±0.25 ±0.2	D	変更&再作図 (J00510)	H.H. Y.Y.	05/15/7	DRAWN BY '89/5/7 H.HIRAMOTO	CHK'D BY '91/10/29 M.FUKUSHIMA	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				
		▲ -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	B			
		-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				
		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-JAPAN CO.,LTD. 日本モレックス株式会社				
						注記 2 参照						
5566-NA**-*						仕上げ FINISH		EDP. NO.				
MODEL NO.						注記 2 参照		表 参照				
角度 ANGLE	±3°	F	SEE SHEET 1 OF 2	M.N K.T	'04/5/26	適用電線範囲 WIRE RANGE		ENG. NO. SHEET 2 OF 2				
30 以上 OVER	±0.3	E	SEE SHEET 1 OF 2	H.H	'90/6/8	被覆外径 INS. RANGE		REV				
10 以上 30 未満 OVER UNDER	±0.25	D	SEE SHEET 1 OF 2	H.H Y.Y	'90/5/7			SD-5566-NA**-*				
10 未満 UNDER	±0.2	記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE	DRAWN BY '90/5/7 H.HIRAMOTO		TITLE 名称				
一般公差 GENERAL TOLERANCES		REVISE ONLY ON CAD SYSTEM				APP'D BY '91/10/29 M.ENOMOTO		NEW MINI FIT CONNECTOR HEADER ASS'Y -LEAD FREE-				
						尺 度 SCALE		23C-952C				
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MXJ-8												