

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0039281183

Status:

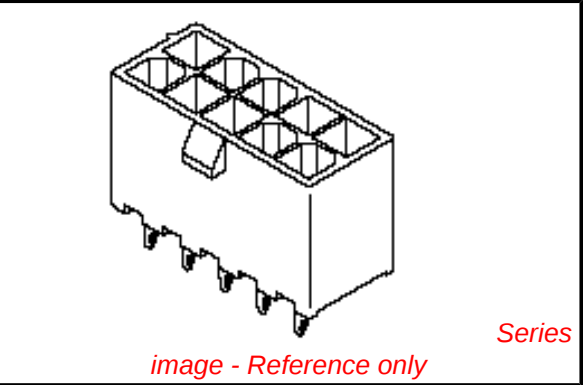
Active

Overview:

[minifit_jr](#)

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, without Snap-in Plastic Peg PCB Lock, 18 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
MolexKits	Yes
Overview	minifit_jr
Product Name	Mini-Fit Jr.™

Physical	
Breakaway	No
Circuits (Loaded)	18
Circuits (maximum)	18
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	5566-18A
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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 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.

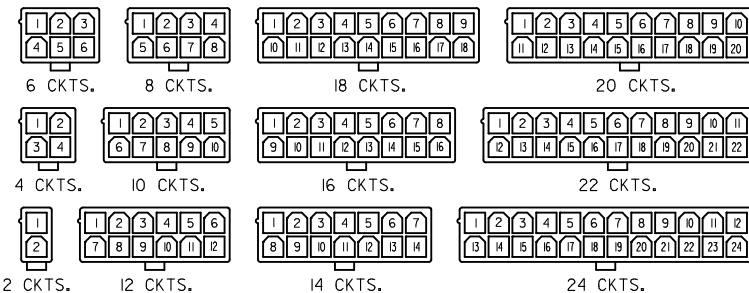
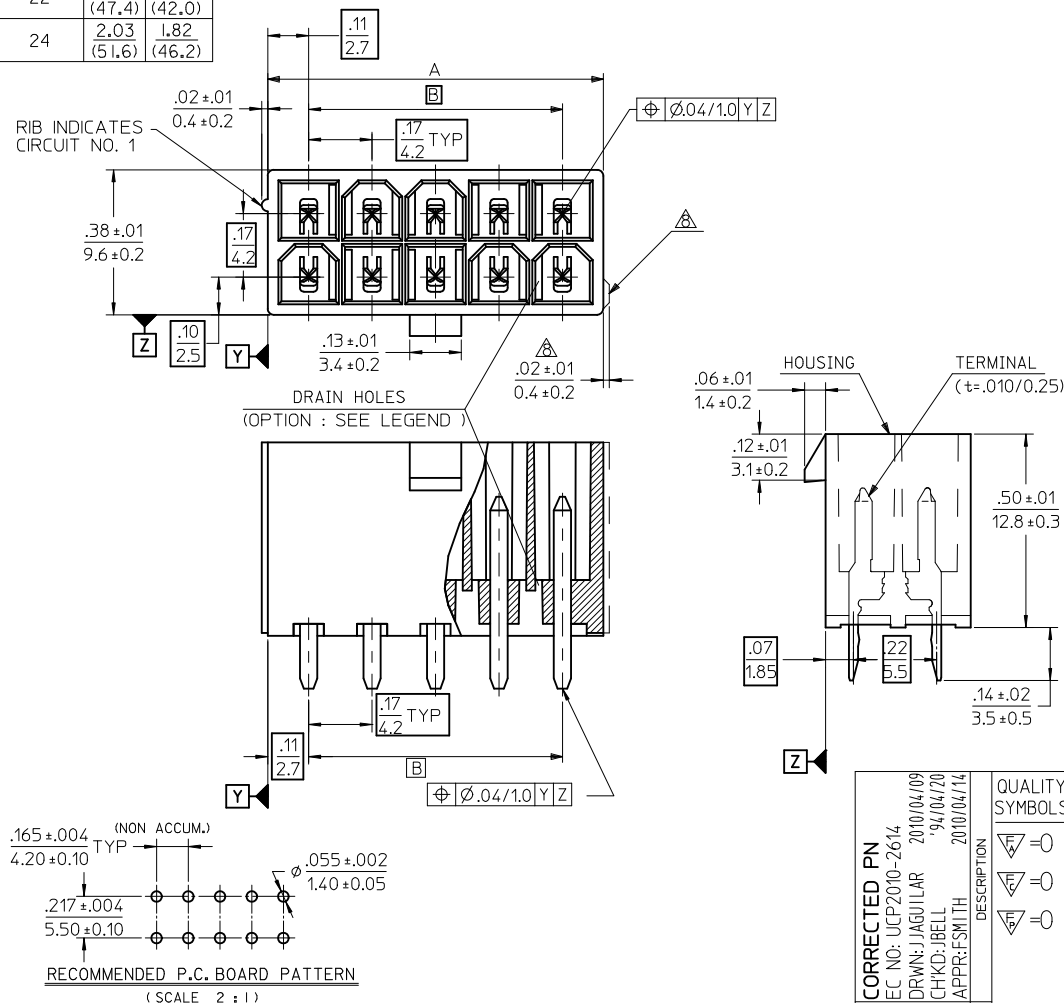
6. PART IS NOT DESIGNED FOR CURRENT SHARING.

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

WHILE CIRCUITS ARE LIVE.

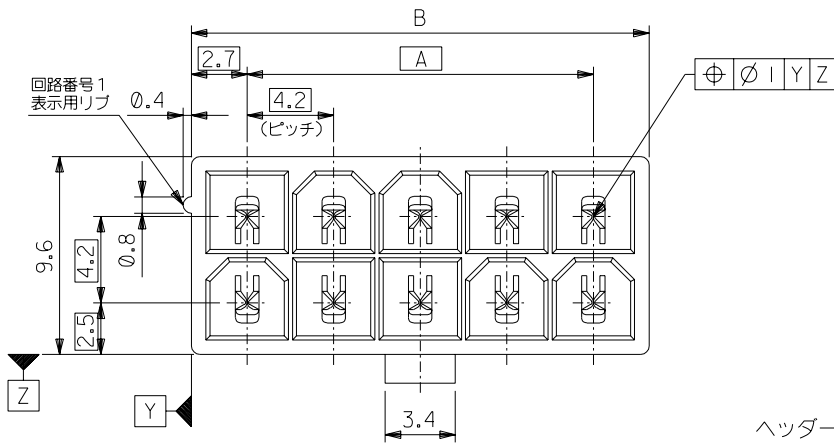
⚠ ANTI-SHINGLING RIB MAY OR MAY NOT APPEAR ON HOUSINGS.

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

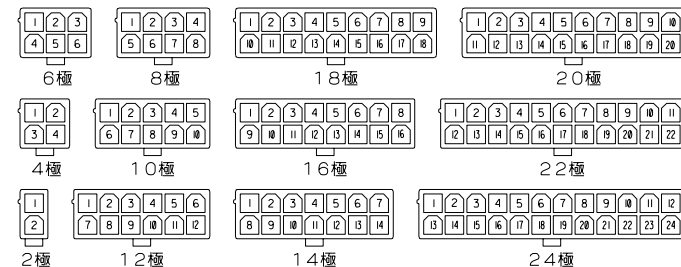


CIRCUIT SIZE LAYOUT

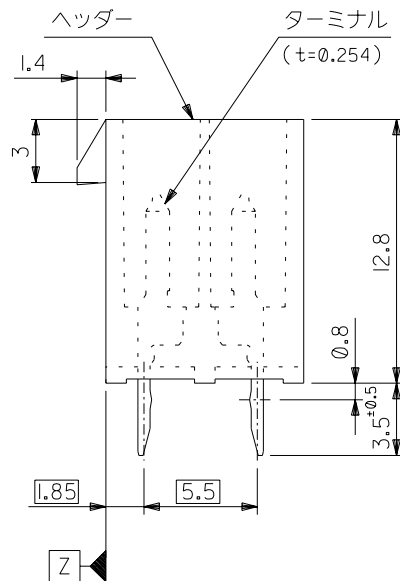
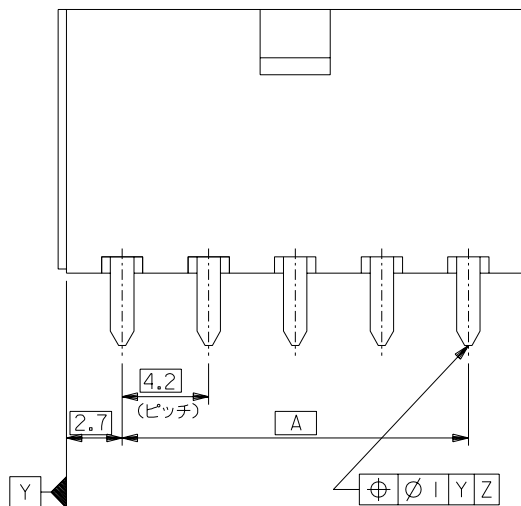
CORRECTED PN EC NO: UCP2010-2614 DRWN: JAGUILAR CHKD: J.BELL APPR: F.S.MITH REV L3	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY H. HIRAMOTO	DATE '89/04/03	TITLE NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE- MOLEX INCORPORATED	DOCUMENT NO. SD-5566-002	SHEET NO. 1 OF 6
			4 PLACES	± ---	± ---	CHECKED BY M. FUKUSHIMA	DATE '94/04/20			
			3 PLACES	± ---	± .005	APPROVED BY M. FUKUSHIMA	DATE '94/04/20			
			2 PLACES	± .13	± .010	SEE TABLE				
			1 PLACE	± .25	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
			ANGULAR ± 3 °							



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.

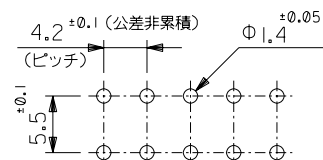
半田付け部 錫 2.54μm MIN.

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.					
									仕上げ FINISH 注記 2 参照			SHEET 2 OF 2 参照					
角度 ANGLE			±3°	F	変更 (J2004-4431)	M.N.	'04/5/26	適用電線範囲 WIRE RANGE			— —			ENG. NO.			
30°以上 OVER			±0.4 ±0.3	E	変更 (J00638)	K.T.	'90/6/8	被覆外径 INS. RANGE			— —			SHEET 1 OF 2			
10°以上 30°未満 OVER			±0.3 ±0.25	D	変更&再作図 (J00510)	H.H.	'90/5/7	DRAWN BY '89/5/7 H.HIRAMOTO			CHK'D BY '91/10/29 M.FUKUSHIMA			REV			
10°未満 UNDER			±0.2	記号	変更内容	Y.Y.	日付	APP'D BY '91/10/29 M.ENOMOTO			尺 度 SCALE 4 - 1			F			
一般公差 GENERAL TOLERANCES			REVISE ONLY ON CAD SYSTEM			DR.	CHK.							TITLE 名称			
															NEW MINI FIT CONNECTOR		
															HEADER ASS'Y -LEAD FREE-		

		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	
									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	E	
		▲ -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				
		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	D			
		▲ -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				
		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						
								B				