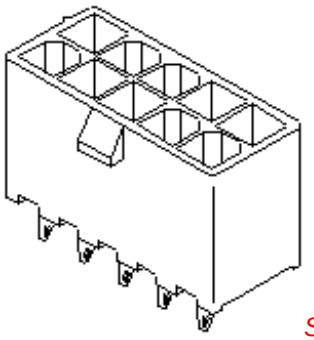
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0039310080
Status: Active
Overview: minifit_jr
Description: 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, without Snap-in Plastic Peg PCB Lock, 8 Circuits, PA Polyamide Nylon 6/6 94V-0, Tin (Sn) Plating, with Drain Holes



Series image - Reference only

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 Crimpted 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)	8
Circuits (maximum)	8
Color - Resin	Natural
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
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	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
Not Reviewed
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
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	5566-08B-210

Reference - Drawing Numbers

Sales Drawing	SD-5566-002

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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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

5566 - N * * * - * - *

BASE NUMBER

CIRCUIT SIZE

ASS'Y TYPE
A : WITHOUT DRAIN HOLES
B : WITH DRAIN HOLES

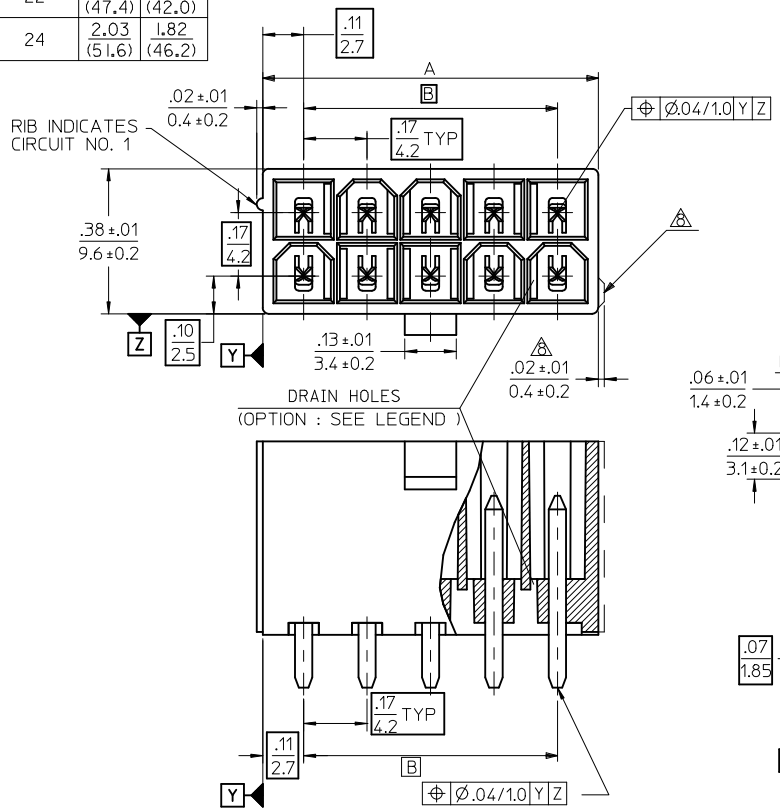
TERMINAL MATERIAL
SEE NOTE 1

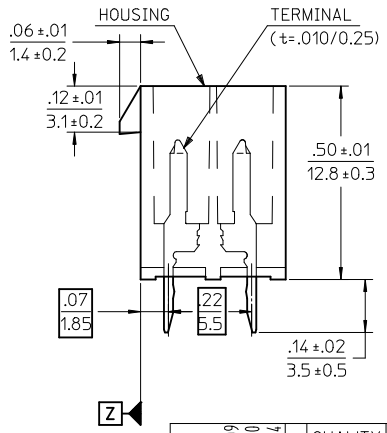
TERMINAL PLATING
SEE NOTE 2

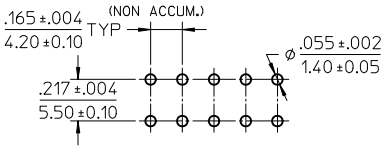
HOUSING MATERIAL
SEE NOTE 1

COLOR OR PACKAGING
BL : BLACK RE : RED GR : GRAY
BU : BLUE YE : YELLOW GRE : GREEN
TA : TRAY PACKAGING SEE NOTE 4

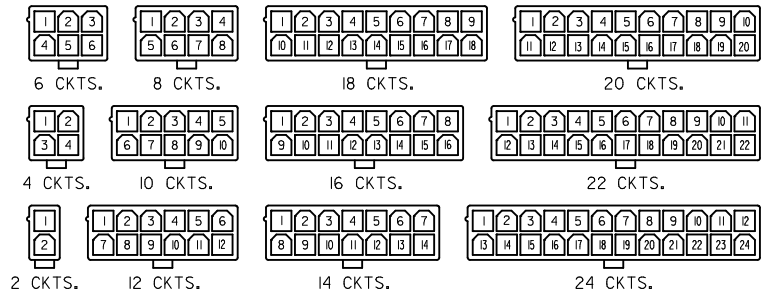
NOTES:
1. MATERIALS:
HOUSING:
'BLANK'=NYLON 6/6, UL94V-2, COLOR: NATURAL
"210" =NYLON 6/6, UL94V-0, COLOR: NATURAL
"400"=NYLON 6/6, UL94V-0, COLOR: BLACK
TERMINALS:
"BLANK" = BRASS
"PB" = PHOSPHER BRONZE
2. TERMINAL PLATING:
"BLANK" = BRIGHT TIN 000035/(0.00090) MIN.
OVER COPPER .000020/(0.00050) MIN. (BRASS)
TIN .000035/(0.00090) MIN. REFLOW TREATMENT
OR BRIGHT TIN .000035/(0.00090) MIN. (PHOSHOR 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.







RECOMMENDED P.C. BOARD PATTERN
(SCALE 2 : 1)



CIRCUIT SIZE LAYOUT

CORRECTED PN
EC NO: UCP2010-2614 2010/04/09
DRWN: JJAGUILAR '94/04/20
CHKD: JBELL
APPR: FSMITH 2010/04/14
DESCRIPTION
REV
L3

QUALITY SYMBOLS
E =0
E =0
E =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± .13	± .010
1 PLACE	± .25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	H.HIRAMOTO	'89/04/03
CHECKED BY	M.FUKUSHIMA	'94/04/20
APPROVED BY	M.FUKUSHIMA	'94/04/20

TITLE: NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-5566-002
SHEET NO.: 1 OF 6

SIZE C

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10	9	8	7	6	5	4	3	2	1	
39-30-9247	5566-24BGS2-210	39-31-0248	5566-24BGS-210	39-31-0242	5566-24BS-210	39-31-0240	5566-24B-210	39-30-6244	5566-24APBS-210	24
-9227	-22BGS2-210	-0228	-22BGS-210	-0222	-22BS-210	-0220	-22B-210	-6224	-22APBS-210	22
-9207	-20BGS2-210	-0208	-20BGS-210	-0202	-20BS-210	-0200	-20B-210	-6204	-20APBS-210	20
-9187	-18BGS2-210	-0188	-18BGS-210	-0182	-18BS-210	-0180	-18B-210	-6184	-18APBS-210	18
-9167	-16BGS2-210	-0168	-16BGS-210	-0162	-16BS-210	-0160	-16B-210	-6164	-16APBS-210	16
-9147	-14BGS2-210	-0148	-14BGS-210	-0142	-14BS-210	-0140	-14B-210	-6144	-14APBS-210	14
-9127	-12BGS2-210	-0128	-12BGS-210	-0122	-12BS-210	-0120	-12B-210	-6124	-12APBS-210	12
-9107	-10BGS2-210	-0108	-10BGS-210	-0102	-10BS-210	-0100	-10B-210	-6104	-10APBS-210	10
-9087	-08BGS2-210	-0088	-08BGS-210	-0082	-08BS-210	-0080	-08B-210	-6084	-08APBS-210	8
-9067	-06BGS2-210	-0068	-06BGS-210	-0062	-06BS-210	-0060	-06B-210	-6064	-06APBS-210	6
-9047	-04BGS2-210	-0048	-04BGS-210	-0042	-04BS-210	-0040	-04B-210	-6044	-04APBS-210	4
39-30-9027	5566-02BGS2-210	39-31-0028	5566-02BGS-210	39-31-0022	5566-02BS-210	39-31-0020	5566-02B-210	39-30-6024	5566-02APBS-210	2
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	CKT. SIZE
5566-NBGS2-210		5566-NBGS-210		5566-NBS-210		5566-NB-210		5566-NAPBS-210		
39-30-9246	5566-24BGS2	39-31-0247	5566-24BGS	39-31-0241	5566-24BS	39-29-3246	5566-24B	39-30-6243	5566-24APBS	24
-9226	-22BGS2	-0227	-22BGS	-0221	-22BS	-3226	-22B	-6223	-22APBS	22
-9206	-20BGS2	-0207	-20BGS	-0201	-20BS	-3206	-20B	-6203	-20APBS	20
-9186	-18BGS2	-0187	-18BGS	-0181	-18BS	-3186	-18B	-6183	-18APBS	18
-9166	-16BGS2	-0167	-16BGS	-0161	-16BS	-3166	-16B	-6163	-16APBS	16
-9146	-14BGS2	-0147	-14BGS	-0141	-14BS	-3146	-14B	-6143	-14APBS	14
-9126	-12BGS2	-0127	-12BGS	-0121	-12BS	-3126	-12B	-6123	-12APBS	12
-9106	-10BGS2	-0107	-10BGS	-0101	-10BS	-3106	-10B	-6103	-10APBS	10
-9086	-08BGS2	-0087	-08BGS	-0081	-08BS	-3086	-08B	-6083	-08APBS	8
-9066	-06BGS2	-0067	-06BGS	-0061	-06BS	-3066	-06B	-6063	-06APBS	6
-9046	-04BGS2	-0047	-04BGS	-0041	-04BS	-3046	-04B	-6043	-04APBS	4
39-30-9026	5566-02BGS2	39-31-0027	5566-02BGS	39-31-0021	5566-02BS	39-29-3026	5566-02B	39-30-6023	5566-02APBS	2
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	CKT. SIZE
5566-NBGS2		5566-NBGS		5566-NBS		5566-NB		5566-NAPBS		
		39-31-0245	5566-24BPBS	39-31-0243	5566-24BPB	39-31-0246	5566-24BPBS-210	39-31-0244	5566-24BPB-210	24
		-0225	-22BPBS	-0223	-22BPB	-0226	-22BPBS-210	-0224	-22BPB-210	22
		-0205	-20BPBS	-0203	-20BPB	-0206	-20BPBS-210	-0204	-20BPB-210	20
		-0185	-18BPBS	-0183	-18BPB	-0186	-18BPBS-210	-0184	-18BPB-210	18
		-0165	-16BPBS	-0163	-16BPB	-0166	-16BPBS-210	-0164	-16BPB-210	16
		-0145	-14BPBS	-0143	-14BPB	-0146	-14BPBS-210	-0144	-14BPB-210	14
		-0125	-12BPBS	-0123	-12BPB	-0126	-12BPBS-210	-0124	-12BPB-210	12
		-0105	-10BPBS	-0103	-10BPB	-0106	-10BPBS-210	-0104	-10BPB-210	10
		-0085	-08BPBS	-0083	-08BPB	-0086	-08BPBS-210	-0084	-08BPB-210	8
		-0065	-06BPBS	-0063	-06BPB	-0066	-06BPBS-210	-0064	-06BPB-210	6
		-0045	-04BPBS	-0043	-04BPB	-0046	-04BPBS-210	-0044	-04BPB-210	4
		39-31-0025	5566-02BPBS	39-31-0023	5566-02BPB	39-31-0026	5566-02BPBS-210	39-31-0024	5566-02BPB-210	2
		EDP NO.	ENG. NO	EDP NO.	ENG. NO	EDP NO.	ENG. NO	EDP NO.	ENG. NO	CKT. SIZE
		5566-NBPBS		5566-NBPB		5566-NBPBS-210		5566-NBPB-210		

PARTS WITH DRAIN HOLES

SEE SHEET 1
EC NO: UCP2010-2614 2010/04/09
DRWN:JJAGUILAR '94/04/20
CHKD:JBELL 2010/04/14
APPR:FSMITH
DESCRIPTION
REV
L3

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR ±--- °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION

DRAWN BY: H.HIRAMOTO	DATE: '89/04/03
CHECKED BY: M.FUKUSHIMA	DATE: '94/04/20
APPROVED BY: M.FUKUSHIMA	DATE: '94/04/20
MATERIAL NO.: SEE TABLE	

TITLE: NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-

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DOCUMENT NO.: SD-5566-002

SHEET NO.: 3 OF 6

SIZE A3

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