

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0874270613

Status:

Active

Overview:

minifit_jr

Description:

4.20mm (.165") Mini-Fit Jr.™ Header, Right Angle, Nylon, with Flange, 6 Circuits, Tin (Sn) over Copper (Cu) Plating, Glow Wire Compatible

Documents:

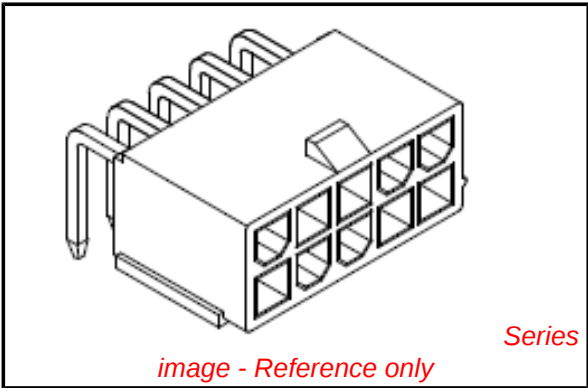
3D Model

Drawing (PDF)

Product Specification PS-87427-0001 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR19980
UL	E29179
General	
Product Family	PCB Headers
Series	87427
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.
Overview	minifit_jr
Product Name	Mini-Fit Jr.™
Physical	
Breakaway	No
Circuits (Loaded)	6
Color - Resin	Beige
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	Yes
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Copper
Material - Resin	Nylon
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.130 In
PC Tail Length (mm)	3.30 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm
Pitch - Term. Interface (in)	0.165 In
Pitch - Term. Interface (mm)	4.20 mm
Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Fully
Stackable	No



EU RoHS

Compliance Status

Not Reviewed

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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

87427Series

Mates With

5557 Mini-Fit Jr.™ Receptacle Housing

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

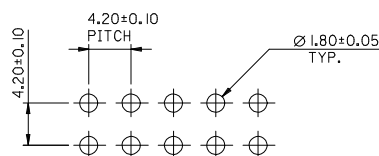
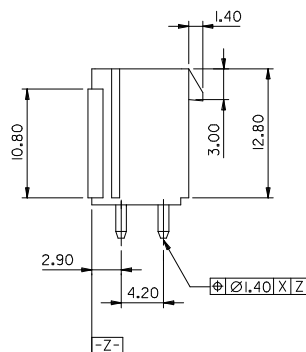
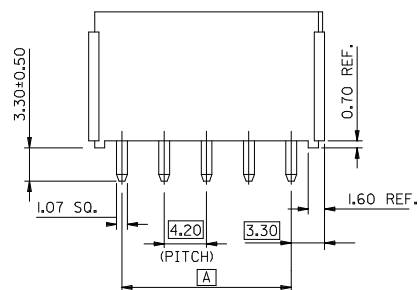
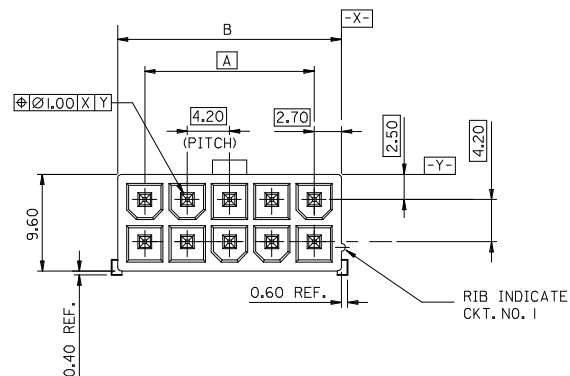
Material Info

Reference - Drawing Numbers

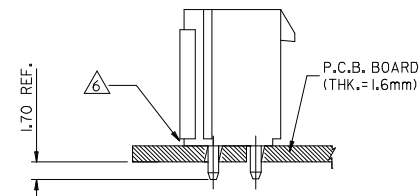
Packaging Specification	PK-87427-003
Product Specification	PS-87427-0001
Sales Drawing	SD-87427-**1*

This document was generated on 05/31/2010

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RECOMMENDED P.C.B.LAYOUT



RECOMMENDED INSTALLATION PATTERN

LEGEND

87427-***4*
CKT. SIZE

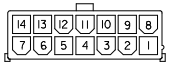
PLATING OPTIONS
2 = NOTE 2
3 = NOTE 3
8 = NOTE 4

NOTES

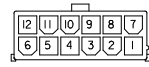
- MATERIAL - HOUSING : NYLON 46, UL94V-0, COLOR BEIGE
PIN : BRASS (1.07 SQUARE)
- PLATING OF PIN
TIN 2.54um MIN. OVER NICKEL 1.27um MIN.
- PLATING OF PIN
TIN 4-10um OVER COPPER 2-8um.
- PLATING OF PIN
GOLD 0.76um MIN. OVER NICKEL 1.27um MIN.
- PLATING OF PIN
TIN 2.54um MIN. OVER NICKEL 1.27um MIN. WITH MATT FINISH
- HOUSING STANDOFF (0.70 mm REF.)
- PART NUMBERS 36633-0025 TO 36633-0029 & 36633-0033 TO 36633-0039 INCLUDED AS SHOWN IN TABLE 'X'.

ENTER DESCRIPTION EC NO: I2009-0573 DRWN:HR01 2009/11/11 CHKD:KPRASAD 2009/11/12 APPR:KPRASAD 2009/11/13			QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION 					
					mm	INCH	DRAWN BY SAM.C	DATE 960401	TITLE 4.2MM W-T-B HIGH TEMP VERT. HEADER W/O FLANGES						
D				4 PLACES ± ---	± ---	CHECKED BY		DATE					MOLEX INCORPORATED SD-87427-***4* 1 OF 2		
				3 PLACES ± ---	± ---	APPROVED BY		DATE							
				2 PLACES ± 0.20	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
				1 PLACE ± ---	± ---										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				ANGULAR ± ---°		SEE SHEET 2									
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

F

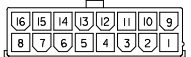


CKT.SIZE 14



CKT.SIZE 12

E

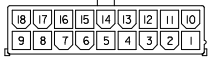


CKT.SIZE 16



CKT.SIZE 10

D

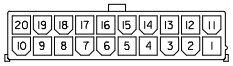


CKT.SIZE 18



CKT.SIZE 8

C

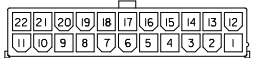


CKT.SIZE 20



CKT.SIZE 6

B

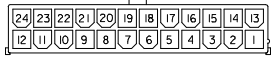


CKT.SIZE 22



CKT.SIZE 4

A



CKT.SIZE 24



CKT.SIZE 2

SEE NOTE  ON SHEET 1 FOR PLATING DETAILS	51.60±0.55	46.20	36633-0029	24
	47.40±0.55	42.00	36633-0028	22
	43.20±0.50	37.80	36633-0027	20
	39.00±0.45	33.60	36633-0039	18
	34.80±0.35	29.40	36633-0026	16
	30.60±0.30	25.20	36633-0038	14
	26.40±0.30	21.00	36633-0037	12
	22.20±0.30	16.80	36633-0025	10
	18.00±0.30	12.60	36633-0036	8
	13.80±0.25	8.40	36633-0035	6
	9.60±0.25	4.20	36633-0034	4
	5.40±0.20	--	36633-0033	2
PIN	B	A	ENG. NO.	CKT. SIZE
TABLE 'X'				

51.60±0.55	46.20	87427-244*	24
47.40±0.55	42.00	87427-224*	22
43.20±0.50	37.80	87427-204*	20
39.00±0.45	33.60	87427-184*	18
34.80±0.35	29.40	87427-164*	16
30.60±0.30	25.20	87427-144*	14
26.40±0.30	21.00	87427-124*	12
22.20±0.30	16.80	87427-104*	10
18.00±0.30	12.60	87427-084*	8
13.80±0.25	8.40	87427-064*	6
9.60±0.25	4.20	87427-044*	4
5.40±0.20	--	87427-024*	2
B	A	ENG. NO.	CKT. SIZE

ENTER DESCRIPTION
EC NO: I2009-0573
DRWN:HMR01 2009/11/11
CHKD:KPRASAD 2009/11/12
APPR:KPRASAD 2009/11/13

DESCRIPTION
REV

QUALITY SYMBOLS
▽=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
4 PLACES ± --- INCH
3 PLACES ± --- INCH
2 PLACES ± 0.20 INCH
1 PLACE ± --- INCH
ANGULAR ± ---°
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY
DRAWN BY DATE
SAM.C 960415
CHECKED BY DATE
APPROVED BY DATE
MATERIAL NO.
SIZE A3

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

TITLE
4.2MM W-T-B HIGH TEMP
VERT. HEADER W/O FLANGES

MOLEX INCORPORATED
SD-87427-**4*

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DOCUMENT NO.
SHEET NO.

2 OF 2