

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0874272243

Status:

Active

Overview:

minifit_jr

Description:

4.20mm (.165") Mini-Fit Jr.™ Header, Vertical, Nylon, without Flange, 22 Circuits, Tin (Sn) over Copper (Cu) Plating, Glow Wire Compatible

Documents:

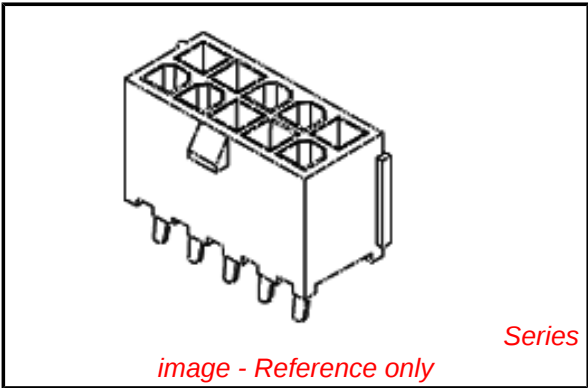
3D Model

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)	22
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	Vertical
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

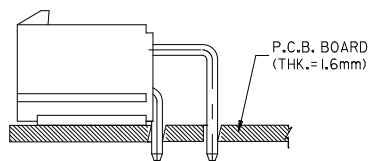
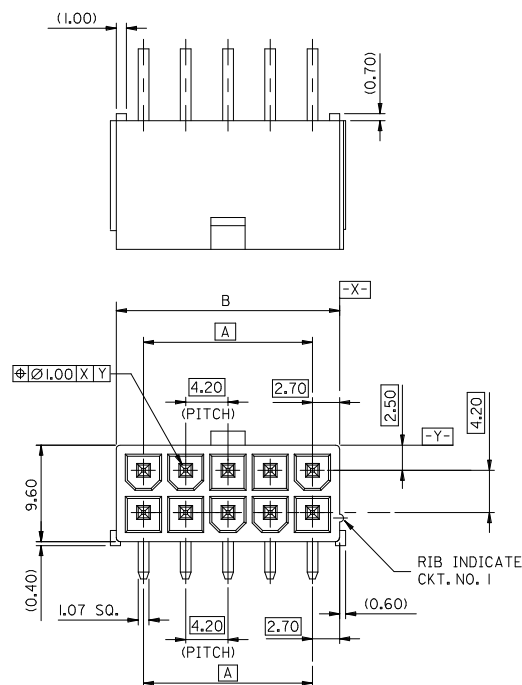
Material Info

Reference - Drawing Numbers

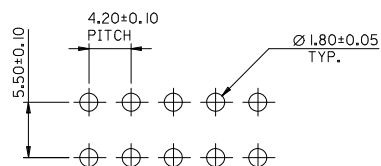
Packaging Specification	PK-87427-004
Product Specification	PS-87427-0001
Sales Drawing	SD-87427-**4*

This document was generated on 05/31/2010

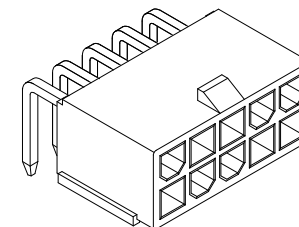
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RECOMMENDED INSTALLATION PATTERN



RECOMMENDED P.C.B. LAYOUT



ISOMETRIC VIEW

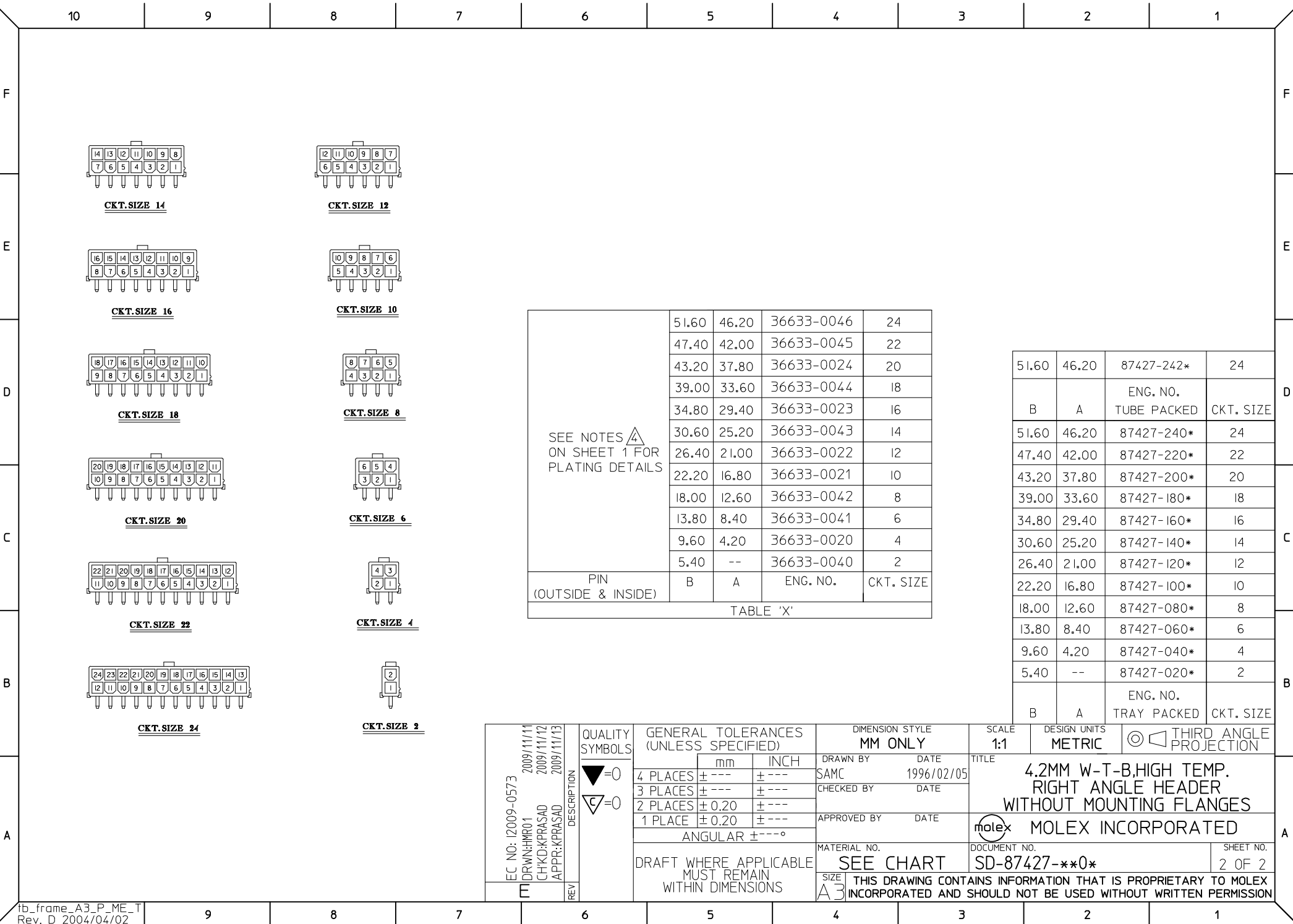
LEGEND

- 87427-****
- CKT. SIZE (SEE SHEET 2).
- PLATING OPTIONS
2 = NOTE 2
3 = NOTE 3
- PACKAGING OPTIONS
0 = TRAY PACKED
2 = TUBE PACKED

NOTES

- MATERIAL - HEADER : 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
TIN 2.54um MIN. OVER NICKEL 1.27um MIN. WITH MATT FINISH.
- PART NUMBERS 36633-0020 TO 36633-0024 & 36633-0040 TO 36633-0046 INCLUDED AS SHOWN IN TABLE 'X'.

CORRECT TOLERANCE		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	
EC NO: UCP2010-0395		DESCRIPTION		mm		DRAWN BY		DATE		TITLE 4.2MM W-T-B HIGH TEMP. RIGHT ANGLE HEADER WITHOUT MOUNTING FLANGES MOLEX INCORPORATED			
DRAWN: JAGUILAR		2010/04/09		INCH		STEVEN		1995/02/27					
CHKD: EDMUD		1995/03/01		4 PLACES ± --- ± ---		CHECKED BY		DATE					
APPR: FSMITH		2010/04/09		3 PLACES ± --- ± ---		EDMUD		1995/03/01					
REV		2010/04/09		2 PLACES ± 0.20 ± ---		APPROVED BY		DATE		DOCUMENT NO. SD-87427-**-0*			
				1 PLACE ± 0.20 ± ---		FSMITH		2010/04/09					
				ANGULAR ± --- °		MATERIAL NO.		SEE CHART		SHEET NO. 1 OF 2			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



SEE NOTES  ON SHEET 1 FOR PLATING DETAILS	51.60	46.20	36633-0046	24
	47.40	42.00	36633-0045	22
	43.20	37.80	36633-0024	20
	39.00	33.60	36633-0044	18
	34.80	29.40	36633-0023	16
	30.60	25.20	36633-0043	14
	26.40	21.00	36633-0022	12
	22.20	16.80	36633-0021	10
	18.00	12.60	36633-0042	8
	13.80	8.40	36633-0041	6
	9.60	4.20	36633-0020	4
	5.40	--	36633-0040	2
PIN (OUTSIDE & INSIDE)	B	A	ENG. NO.	CKT. SIZE

TABLE 'X'

51.60	46.20	87427-242*	24
B	A	ENG. NO. TUBE PACKED	CKT. SIZE
51.60	46.20	87427-240*	24
47.40	42.00	87427-220*	22
43.20	37.80	87427-200*	20
39.00	33.60	87427-180*	18
34.80	29.40	87427-160*	16
30.60	25.20	87427-140*	14
26.40	21.00	87427-120*	12
22.20	16.80	87427-100*	10
18.00	12.60	87427-080*	8
13.80	8.40	87427-060*	6
9.60	4.20	87427-040*	4
5.40	--	87427-020*	2
B	A	ENG. NO. TRAY PACKED	CKT. SIZE

EC NO: I2009-0573

2009/11/11

DRWN:HM01

2009/11/12

CHKD:KPRASAD

2009/11/13

APPR:KPRASAD

REV

DESCRIPTION

QUALITY SYMBOLS

=0

=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±---	±---
3 PLACES	±---	±---
2 PLACES	±0.20	±---
1 PLACE	±0.20	±---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY	DATE
SAMC	1996/02/05
CHECKED BY	DATE
APPROVED BY	DATE

MATERIAL NO.

SEE CHART

SIZE

A3

SCALE

1:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

4.2MM W-T-B,HIGH TEMP.
RIGHT ANGLE HEADER
WITHOUT MOUNTING FLANGES

 MOLEX INCORPORATED

DOCUMENT NO.

SD-87427-**0*

SHEET NO.

2 OF 2

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