

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0874272212](#)  
**Status:** **Active**  
**Overview:** [minifit\\_jr](#)  
**Description:** 4.20mm (.165") Mini-Fit Jr.™ Header, Right Angle, Nylon, with Flange, 22Circuits, Tin (Sn) over Nickel (Ni) Plating, Glow Wire Compatible

**Documents:**

[3D Model](#) [Product Specification PS-87427-0001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

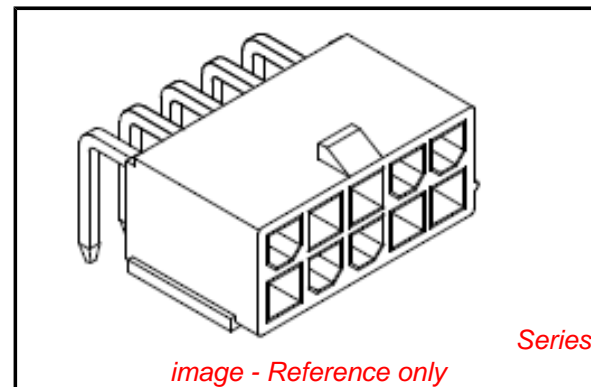
**General**

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 Tin  
 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  
 Plating min: Mating (µin) 101.6  
 Plating min: Mating (µm) 2.54  
 Plating min: Termination (µin) 101.6  
 Plating min: Termination (µm) 2.54



**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC Contains SVHC: No**  
**Halogen-Free Status**

**China RoHS**



**Not Halogen-Free**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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

Polarized to Mating Part	Yes
Polarized to PCB	No
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

### **Solder Process Data**

Duration at Max. Process Temperature (seconds)	30
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	2
Process Temperature max. C	240

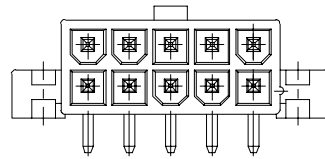
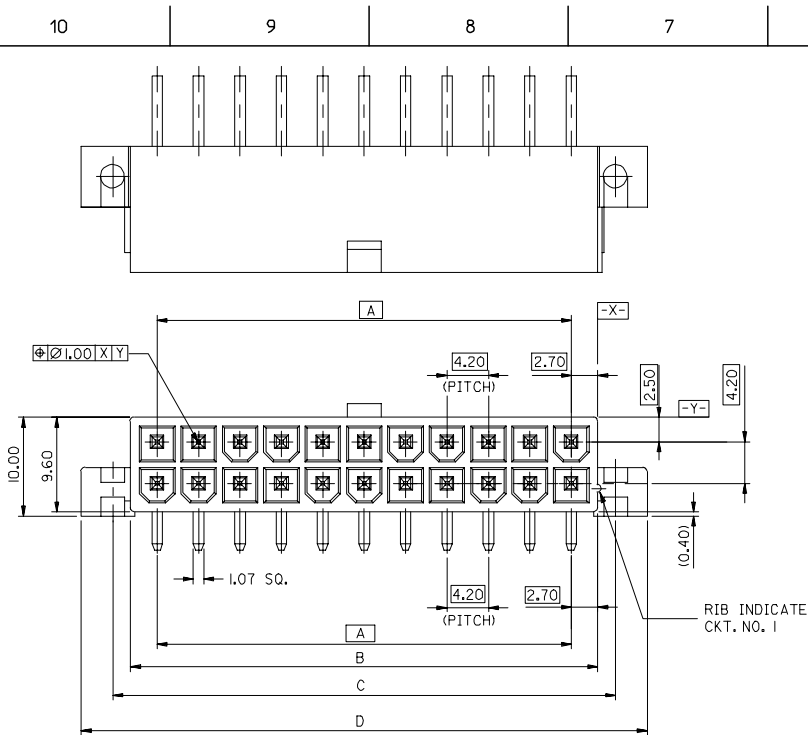
### **Material Info**

#### **Reference - Drawing Numbers**

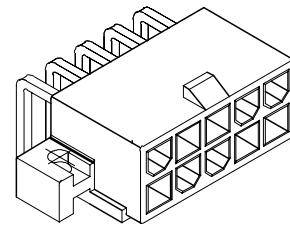
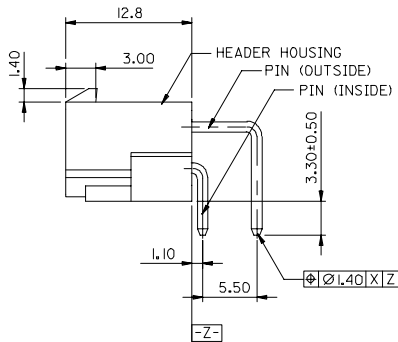
Packaging Specification	PK-87427-003
Product Specification	PS-87427-0001
Sales Drawing	SD-87427-***1*

This document was generated on 05/31/2010

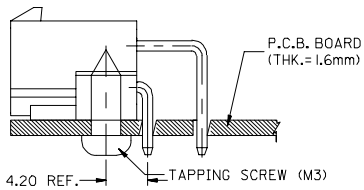
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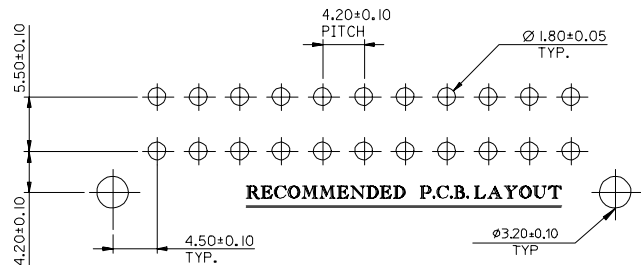
**CKT. SIZE 10**



**ISOMETRIC VIEW**



**RECOMMENDED INSTALLATION PATTERN**



**RECOMMENDED P.C.B. LAYOUT**

**LEGEND**

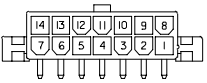
- 87427-\*\*\*\*
- CKT. SIZE (SEE SHEET 2)
- PLATING OPTIONS
  - 2 = NOTE 2
  - 3 = NOTE 3
- PACKAGING OPTIONS
  - 1 = TRAY PACKED

**NOTES**

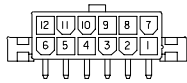
1. MATERIAL - HEADER : NYLON 46, UL94V-0, COLOR BEIGE  
PIN : BRASS (1.07 SQUARE)
2. PLATING OF PIN  
TIN 2.54um MIN. OVER NICKEL 1.27um MIN.
3. PLATING OF PIN  
TIN 4-10um OVER COPPER 2-8um.

EC NO: 12005-0465 DRWN:SSUDHIR 2005/05/13 CHKD:KPRASAD 2005/05/16 APPR:KPRASAD 2005/05/16	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.20 ± ---	1 PLACE ± 0.20 ± ---	ANGULAR ± ---°	DRAWN BY STEVEN	DATE 1994/06/24	TITLE 4.2MM W-T-B HIGH TEMP. RIGHT ANGLE HEADER (WITH MOUNTING FLANGES)
REV D	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		MATERIAL NO. ROY WONG		DATE 1995/03/01	
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DOCUMENT NO. SD-87427-***1*		SHEET NO. 1 OF 2	

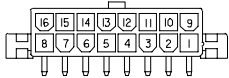
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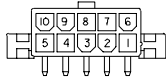
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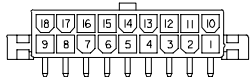
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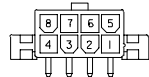
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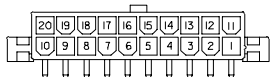
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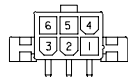
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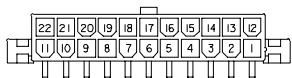
CKT.SIZE 8



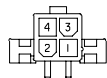
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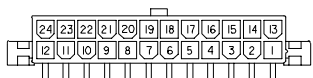
CKT.SIZE 6



CKT.SIZE 22



CKT.SIZE 4



CKT.SIZE 24



CKT.SIZE 2

61.60	55.20	51.60	46.20	87427-241*	24
57.40	51.00	47.40	42.00	87427-221*	22
53.20	46.80	43.20	37.80	87427-201*	20
49.00	42.60	39.00	33.60	87427-181*	18
44.80	38.40	34.80	29.40	87427-161*	16
40.60	34.20	30.60	25.20	87427-141*	14
36.40	30.00	26.40	21.00	87427-121*	12
32.20	25.80	22.20	16.80	87427-101*	10
28.00	21.60	18.00	12.60	87427-081*	8
23.80	17.40	13.80	8.40	87427-061*	6
19.60	13.20	9.60	4.20	87427-041*	4
15.40	9.00	5.40	--	87427-021*	2
D	C	B	A	ENG.NO. TRAY PACKED	CKT. SIZE

EC NO: I2005-0465 DRWN:SSUDHIR 2005/05/13 CHKD:KPRASAD 2005/05/16 APPR:KPRASAD 2005/05/16	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
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		APPROVED BY					DATE	TITLE 4.2MM W-T-B HIGH TEMP RIGHT ANGLE HEADER (WITH MOUNTING FLANGES)			
		MATERIAL NO.					DOCUMENT NO. SD-87427-***1*			SHEET NO. 2 OF 2	

9 8 7 6 5 4 3 2 1