

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

**Part Number:** [0874210000](#)  
**Status:** **Active**  
**Overview:** [picospox](#)  
**Description:** 1.50mm (.059") Pico-SPOX™ Crimp Terminal, Female, Tin(Sn), 24-30 AWG, Reel

**Documents:**

[3D Model](#) [Product Specification PS-87437 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family Crimp Terminals  
 Series [87421](#)  
 Crimp Quality Equipment Yes  
 MolexKits Yes  
 Overview [picospox](#)  
 Product Literature Order No USA-235  
 Product Name Pico-SPOX™

**Physical**

Gender Female  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating Tin  
 Material - Plating Termination Tin  
 Packaging Type Reel  
 Plating min: Mating (µin) 101.600  
 Plating min: Mating (µm) 2.54  
 Plating min: Termination (µin) 101.600  
 Plating min: Termination (µm) 2.54  
 Termination Interface: Style Crimp or Compression  
 Wire Insulation Diameter 0.70mm (.028) max., 0.90mm (.035") max., 1.00mm (.039) max., 1.15mm (.045") max.  
 Wire Size AWG 24, 26, 28, 30  
 Wire Size mm² N/A

**Electrical**

Current - Maximum per Contact 1A, 2A, 3A  
 Voltage - Maximum 50V

**Material Info**

**Reference - Drawing Numbers**

Product Specification PS-87437, RPS-78048-002, RPS-87437, RPS-87437-001, RPS-87437-200  
 Sales Drawing SD-87421-0000

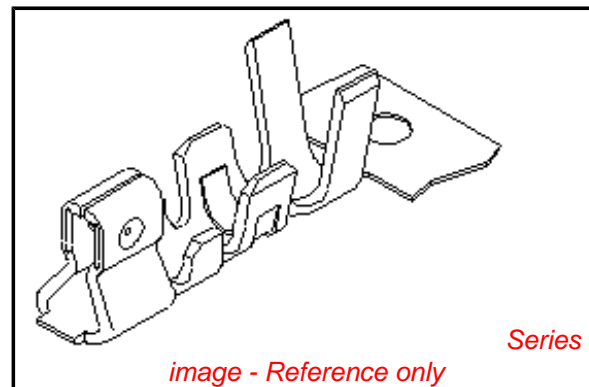


image - Reference only

**EU RoHS**

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

**China RoHS**



**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**

[87421Series](#)

**Use With**

[87439 Pico-SPOX™ Wire-to-Board Housing](#)

**Application Tooling | FAQ**

*Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.*

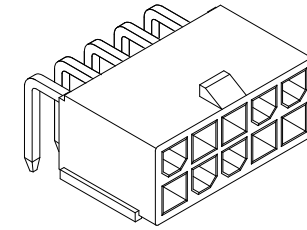
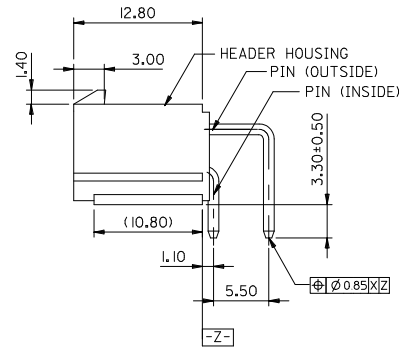
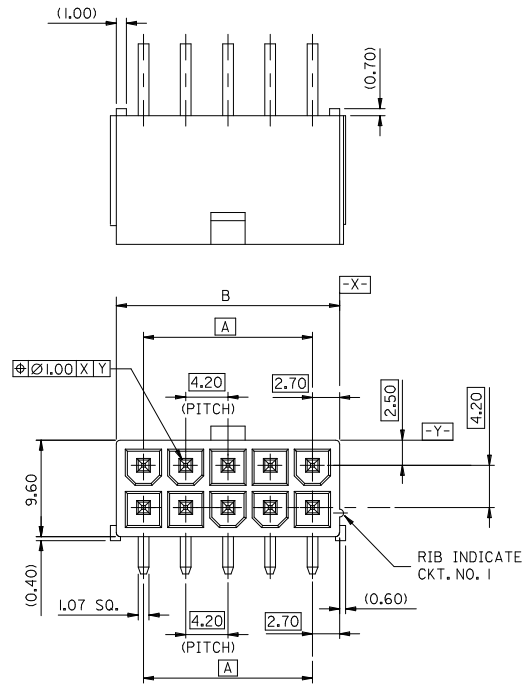
**Global**

Description	Product #
T2 Terminator for 1.50mm (.059") Pico-SPOX™ Female Crimp Terminal	<a href="#">0639114200</a>
Extraction Tool	<a href="#">0638132700</a>
FineAdjust Applicator for 1.50mm (.059") Pico-SPOX™ Female Crimp	<a href="#">0639014200</a>

Terminal, 24-30 AWG Hand Crimp Tool	<u>0638116400</u>
<b>Japan</b>	
<b>Description</b>	<b>Product #</b>
Applicator for M211A Bench Press, 26 AWG, for 87421 Crimp Terminal	<u>0572943000</u>

This document was generated on 06/08/2010

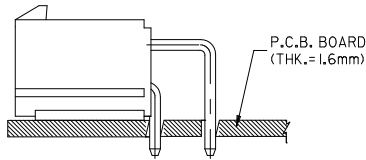
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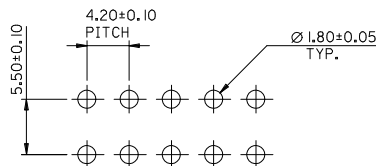
**ISOMETRIC VIEW**

**LEGEND**

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



**RECOMMENDED INSTALLATION PATTERN**

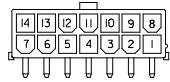


**RECOMMENDED P.C.B. LAYOUT**

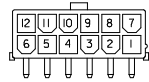
**NOTES**

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.
4. PLATING OF PIN  
TIN 2.54um MIN. OVER NICKEL 1.27um MIN. WITH MATT FINISH.
5. PART NUMBERS 36633-0020 TO 36633-0024 & 36633-0040 TO 36633-0046 INCLUDED AS SHOWN IN TABLE 'X'.

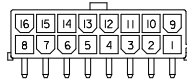
CORRECT TOLERANCE EC NO: UCP2010-0395 DRAWN: JAGUILAR 2010/04/09 CHKD: EDMUD 1995/03/01 APPR: FSMITH 2010/04/09	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY STEVEN	DATE 1995/02/27	TITLE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



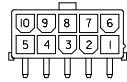
CKT.SIZE 14



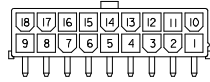
CKT.SIZE 12



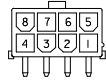
CKT.SIZE 16



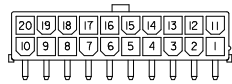
CKT.SIZE 10



CKT.SIZE 18



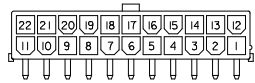
CKT.SIZE 8



CKT.SIZE 20



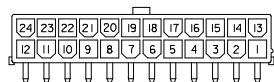
CKT.SIZE 6



CKT.SIZE 22



CKT.SIZE 4



CKT.SIZE 24



CKT.SIZE 2

SEE NOTES $\Delta$ 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 DRWN: HMR01 2009/11/11 CHKD: KPRASAD 2009/11/12 APPR: KPRASAD 2009/11/13	QUALITY SYMBOLS $\nabla=0$ $\square=0$	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES $\pm$ --- $\pm$ --- 3 PLACES $\pm$ --- $\pm$ --- 2 PLACES $\pm$ 0.20 $\pm$ --- 1 PLACE $\pm$ 0.20 $\pm$ --- ANGULAR $\pm$ ---°	DIMENSION STYLE MM ONLY DRAWN BY: SAMC DATE: 1996/02/05 CHECKED BY: DATE:	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
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO: SEE CHART	APPROVED BY: DATE:	
		SIZE: A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		