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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
Drawing (PDF)
Product Specification PS-87437 (PDF)
RoHS Certificate of Compliance (PDF)

Series image - Reference only

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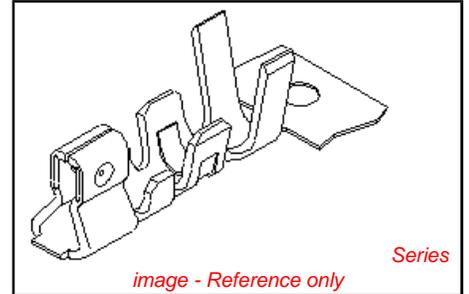
EU RoHS   **China RoHS**
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Halogen-Free

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
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.
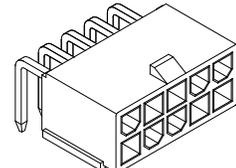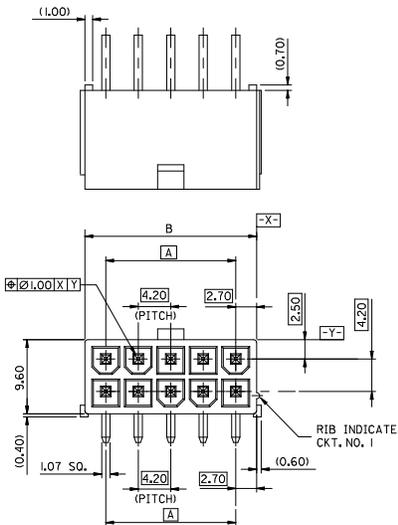**Global**

Description	Product #
T2 Terminator for 1.50mm (.059") Pico-SPOX™ Female Crimp Terminal	0639114200
Extraction Tool	0638132700
FineAdjust Applictor for 1.50mm (.059") Pico-SPOX™ Female Crimp	0639014200

Terminal, 24-30
AWG
Hand Crimp Tool   <u>0638116400</u>
Japan

Description	**Product #**
Applicator for M211A Bench Press, 26 AWG, for 87421 Crimp Terminal	<u>0572943000</u>

This document was generated on 06/08/2010
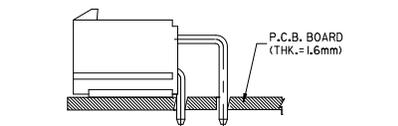**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

(1.00)
(0.70)

B
-X-
A
⊕|⌀1.00|X|Y|
4.20 (PITCH)
2.70
2.50
-Y-
4.20
9.60
(0.40)
1.07 SQ.
4.20 (PITCH)
2.70
(0.60)
A
RIB INDICATE CKT. NO. 1

12.80
3.00
HEADER HOUSING
PIN (OUTSIDE)
PIN (INSIDE)
1.40
3.30±0.50
(10.80)
1.10
5.50
⊕|⌀0.85|X|Z|
-Z-

P.C.B. BOARD (THK.=1.6mm)

RECOMMENDED INSTALLATION PATTERN

4.20±0.10 PITCH
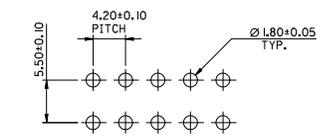5.50±0.10
⌀ 1.80±0.05 TYP.

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
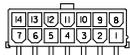2 = TUBE PACKED

NOTES
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 2.54μm MIN. OVER NICKEL 1.27μm MIN. WITH MATT FINISH.
5. PART NUMBERS 36633-0020 TO 36633-0024 & 36633-0040 TO 36633-0046
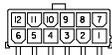   INCLUDED AS SHOWN IN TABLE 'X'.

CORRECT TOLERANCE				
EC NO: UCP2010-0395			2010/04/09	
DRWN: J.AGUILAR			1995/03/01	
CHYKD: EDMUD			2010/04/09	
APPR: F.SMITH				

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	SCALE	DESIGN UNITS	
MM ONLY	2:1	METRIC	◎ ◁ THIRD ANGLE PROJECTION

DRAWN BY	DATE
STEVEN	1995/02/27
CHECKED BY	DATE
EDMUD	1995/03/01
APPROVED BY	DATE
F.SMITH	2010/04/09

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

molex MOLEX INCORPORATED

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE CHART	SD-87427-**0*	1 OF 2

SIZE A3

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tb_frame_A3_P_ME_T Rev. D 2004/04/02
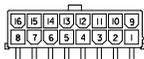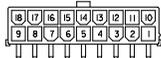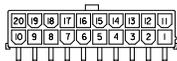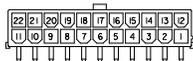
CKT.SIZE 14

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
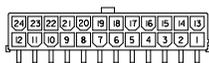
CKT.SIZE 24

CKT.SIZE 2

SEE NOTES ⚠4
ON SHEET 1 FOR
PLATING DETAILS

PIN (OUTSIDE & INSIDE)	B	A	ENG.NO.	CKT.SIZE
	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

TABLE 'X'

B	A	ENG. NO. TUBE PACKED	CKT. SIZE
51.60	46.20	87427-242*	24

B	A	ENG. NO. TRAY 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

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)

	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

SCALE
1:1

DESIGN UNITS
METRIC

◎ ◁ THIRD ANGLE PROJECTION

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

molex   MOLEX INCORPORATED

MATERIAL NO.
SEE CHART

DOCUMENT NO.
SD-87427-**0*

SHEET NO.
2 OF 2

SIZE
A3

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Rev. D 2004/04/02