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Part Number:

0908140204

Status:

Active

Overview:

[picoflex](#)

Description:

1.27mm (.050") Pitch Picoflex® PF-50 Header, Vertical, Low Profile, Surface Mount, 4 Circuits, Glow Wire Compatible

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-99020-0011 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

UL

E29179

General

Product Family

PCB Headers

Series

90814

Application

Wire-to-Board

Application Tooling Part Link

690081070

Comments

Low Profile SMT

Overview

[picoflex](#)

Product Name

Picoflex®

Physical

Breakaway

No

Circuits (Loaded)

4

Color - Resin

Black, Natural

Durability (mating cycles max)

30

First Mate / Last Break

No

Flammability

94V-0

Glow-Wire Compliant

Yes

Guide to Mating Part

No

Keying to Mating Part

None

Lock to Mating Part

Yes

Material - Metal

Brass

Material - Plating Mating

Tin

Material - Resin

High Temperature Thermoplastic

Number of Rows

1

Orientation

Vertical

PCB Locator

Yes

PCB Retention

Yes

PCB Thickness Recommended (in)

0.062 In

PCB Thickness Recommended (mm)

1.60 mm

Packaging Type

Tube

Pitch - Mating Interface (in)

0.050 In

Pitch - Mating Interface (mm)

1.27 mm

Plating min: Mating (µin)

120

Plating min: Mating (µm)

3

Plating min: Termination (µin)

120

Plating min: Termination (µm)

3

Polarized to Mating Part

Yes

Polarized to PCB

Yes

Shrouded

No

Stackable

No

Surface Mount Compatible (SMC)

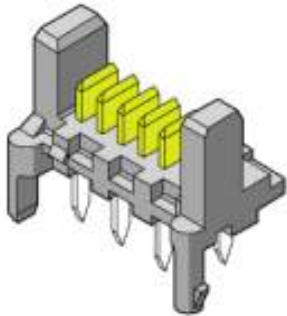
N/A

Temperature Range - Operating

-40°C to +105°C

Termination Interface: Style

Surface Mount



Series

image - Reference only

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Halogen-Free

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
90814Series

Mates With
90327 IDT Connector

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 #

Extraction Tool (Plastic) for 90327 Connector, 4-26 Circuit

0690081070

Electrical

Current - Maximum per Contact	1.2A
Voltage - Maximum	250V

Solder Process Data

Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

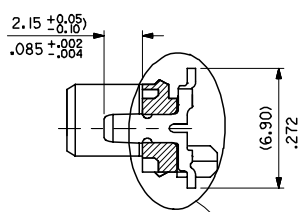
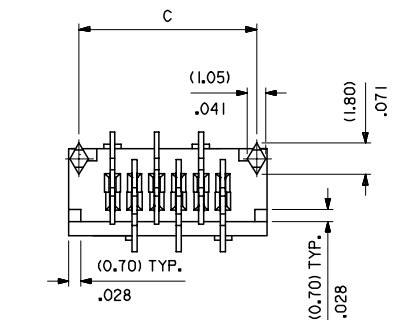
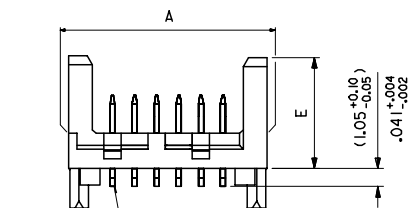
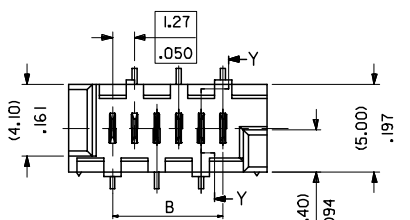
Material Info

Reference - Drawing Numbers

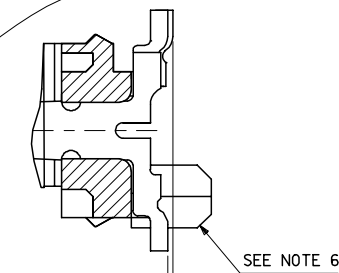
Packaging Specification	SDA-90814-9001
Product Specification	PS-99020-0011
Sales Drawing	SDA-90814

This document was generated on 06/08/2010

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SECTION Y-Y



(SCALE 10:1)

NOTES:

- MATERIAL: HOUSING: NYLON 4/6 30% G.F., UL 94 V-0, NATURAL (BEIGE)
TERMINAL- CARTRIDGE BRASS (0.28)/.011 REF THICK
- PLATING:
TIN: TIN (3-5UM)/120uin-200uin OVER (1.27um)/5uin MIN NICKEL.
GOLD: (0.76UM)/30UIN SELECTIVE GOLD AND
(0.10-0.20UM)/4UIN-8UIN GOLD FLASH OVER (1.27UM)/50UIN
NICKEL UNDERCOAT
- MATES WITH MOLEX 90327 PART SERIES
- ALL SMT TAILS TO LIE WITHIN A COPLANARITY BAND OF
(0.0)/.0 - (0.10)/.004 REF. FROM EACH OTHER.
- FOR TAPE & REEL PACKAGING DETAILS SEE SDA-90814-9001
- PCB PEGS ARE OPTIONAL
- PCB LAYOUT SHOWN ON SHEET 2

90814 -

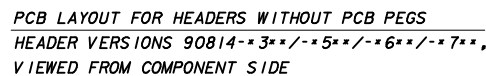
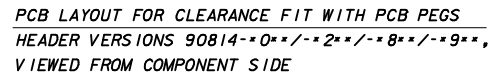
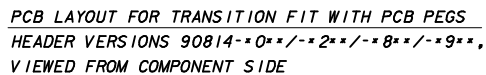
CIRCUIT SIZE

	PCB PEGS	TUBE PACKED	TAPE & REEL PACKED	POLARIZING PEG HEIGHT DIMN. E
0	YES	YES	NO	(6.40)/ .252
2	YES	NO	YES	(6.40)/ .252
3	NO	YES	NO	(6.40)/ .252
5	NO	NO	YES	(6.40)/ .252
6	NO	YES	NO	(4.10)/ .161
7	NO	NO	YES	(4.10)/ .161
8	YES	YES	NO	(4.10)/ .161
9	YES	NO	YES	(4.10)/ .161

- 0= (3-5UM)/120-200UIN TIN VERSION
3= (0.76UM)/30UIN GOLD VERSION

90814--34	34	(46.96)/.1849	(41.91)/.1650	(45.76)/.1802	10	NO
90814--26	26	(36.80)/.1449	(31.75)/.1250	(35.60)/.1402	14	YES
90814--24	24	(34.26)/.1349	(29.21)/.1150	(33.06)/.1302	15	YES
90814--22	22	(31.72)/.1249	(26.67)/.1050	(30.52)/.1202	16	YES
90814--20	20	(29.18)/.1149	(24.13)/.0950	(27.98)/.1102	18	YES
90814--18	18	(26.64)/.1049	(21.59)/.0850	(25.44)/.1002	20	YES
90814--16	16	(24.10)/.0949	(19.05)/.0750	(22.90)/.0902	22	YES
90814--14	14	(21.56)/.0849	(16.51)/.0650	(20.36)/.0802	25	YES
90814--12	12	(19.02)/.0749	(13.97)/.0550	(17.82)/.0702	28	YES
90814--10	10	(16.48)/.0649	(11.43)/.0450	(15.28)/.0602	32	YES
90814--08	8	(13.94)/.0549	(8.89)/.0350	(12.74)/.0502	38	YES
90814--06	6	(11.40)/.0449	(6.35)/.0250	(10.20)/.0402	46	YES
90814--04	4	(8.86)/.0349	(3.81)/.0150	(7.66)/.0302	60	YES
PART NO.	NUMBER OF CKTS	DIMN. A	DIMN. B	DIMN. C	QUANTITY OF PARTS PER TUBE (-0**/-3**/-6** & -8** VERSIONS)	TOOLED

REDUCED CO-PL TOL EC NO: E2007-0304 DRAWN: JENNEY 2006/11/07 CHKD: JENNEY 2006/11/07 APPR: JENNEY 2006/11/13	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	mm INCH	DRAWN BY DMCNAMAR	DATE 2001/08/16	PICO FLEX SMT HEADER				
		3 PLACES ± --- ± .004	CHECKED BY PCURTIN	DATE 2001/08/16						
		2 PLACES ± 0.10 ± ---	APPROVED BY MWILHITE	DATE 2001/08/16	MOLEX INCORPORATED					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SDA-90814					SHEET NO. 1 OF 2	
SIZE A2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



908 14--*34	34	(46.96)/.1849	(4.91)/.1650	(45.76)/.1802	(22.88)/.901
908 14--*26	26	(36.80)/.1449	(3.175)/.1250	(35.60)/.1402	(17.80)/.701
908 14--*24	24	(34.26)/.1349	(29.21)/.1150	(33.06)/.1302	(16.53)/.651
908 14--*22	22	(31.72)/.1249	(26.67)/.1050	(30.52)/.1202	(15.26)/.601
908 14--*20	20	(29.18)/.1149	(24.13)/.950	(27.98)/.1102	(13.99)/.551
908 14--*18	18	(26.64)/.1049	(21.59)/.850	(25.44)/.1002	(12.72)/.501
908 14--*16	16	(24.10)/.949	(19.05)/.750	(22.90)/.902	(11.45)/.451
908 14--*14	14	(21.56)/.849	(16.51)/.650	(20.36)/.802	(10.18)/.401
908 14--*12	12	(19.02)/.749	(13.97)/.550	(17.82)/.702	(8.91)/.351
908 14--*10	10	(16.48)/.649	(11.43)/.450	(15.28)/.602	(7.64)/.301
908 14--*08	8	(13.94)/.549	(8.89)/.350	(12.74)/.502	(6.37)/.251
908 14--*06	6	(11.40)/.449	(6.35)/.250	(10.20)/.402	(5.10)/.201
908 14--*04	4	(8.86)/.349	(3.81)/.150	(7.66)/.302	(3.83)/.151
PART NO.	NUMBER OF CKTS	DIMN. A	DIMN. B	DIMN. C	DIMN. D

ADDED PART FOOTPRINT EC NO: E2009-0235 DRAWN BY: JAMES CHKD: CHIKO APPR: IWALACE	2008/11/07 2008/11/10 2008/11/10	DESCRIPTION P REV	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm INCH	DRAWN BY DATE DMCNAMAR 2001/08/23	TITLE PICOFLEX SMT HEADER				
				4 PLACES ± --- ± ---	CHECKED BY DATE BMAGUIRE 2001/08/23					
				3 PLACES ± --- ± ---	APPROVED BY DATE MWILHITE 2001/08/23		MOLEX INCORPORATED			
				2 PLACES ± 0.10 ± ---	MATERIAL NO.		DOCUMENT NO.			SHEET NO.
				1 PLACE ± 0.2 ± ---	SEE CHART		SDA-90814			2 OF 2
				ANGULAR ± 1/2°	SIZE A2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										