

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0908143210

Status:

Active

Overview:

[picoflex](#)

Description:

1.27mm (.050") Pitch Picoflex® PF-50 Header, Vertical, Low Profile, Surface Mount, 10 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)

10

Color - Resin

Black, Natural

Durability (mating cycles max)

100

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

Gold

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)

30.4

Plating min: Mating (µm)

0.76

Plating min: Termination (µin)

4

Plating min: Termination (µm)

0.1

Polarized to Mating Part

Yes

Polarized to PCB

Yes

Shrouded

No

Stackable

No

Surface Mount Compatible (SMC)

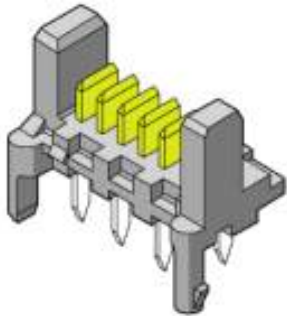
N/A

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

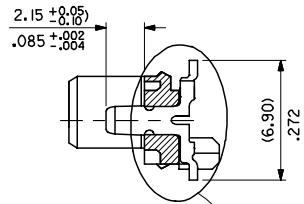
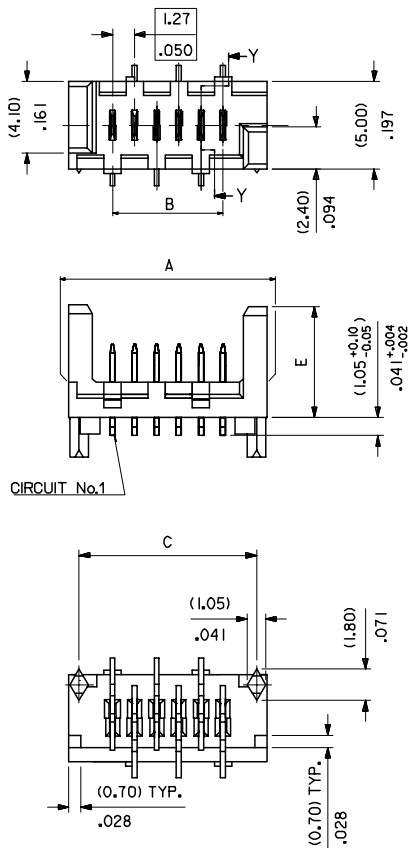
Material Info

Reference - Drawing Numbers

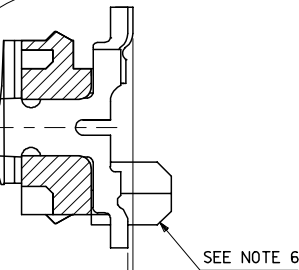
Packaging Specification	SDA-90814-9001
Product Specification	PS-99020-0011
Sales Drawing	SDA-90814

This document was generated on 06/08/2010

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SECTION Y-Y



SEE NOTE 4

(SCALE 10:1)

NOTES:

1) MATERIAL: HOUSING: NYLON 4/6 30% G.F., UL 94 V-0, NATURAL (BEIGE)
TERMINAL- CARTRIDGE BRASS (0.28)/.011 REF THICK

2) 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

3) MATES WITH MOLEX 90327 PART SERIES

4) ALL SMT TAILS TO LIE WITHIN A COPLANARITY BAND OF
(0.0)/.0 - (0.10)/.004 REF. FROM EACH OTHER.

5) FOR TAPE & REEL PACKAGING DETAILS SEE SDA-90814-9001

6) PCB PEGS ARE OPTIONAL

7) PCB LAYOUT SHOWN ON SHEET 2

90814 - **

CIRCUIT SIZE

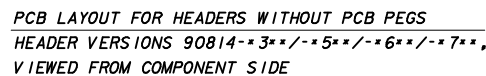
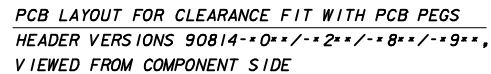
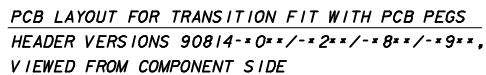
	PCB PEGS	TUBE PACKED	TAPE & REEL PACKED	POLARIZING PEG HEIGHT DIMN. E
0	YES	YES	NO	(6.40)/ .252
2	YES	NO	YES	(6.40)/ .252
3	NO	YES	NO	(6.40)/ .252
5	NO	NO	YES	(6.40)/ .252
6	NO	YES	NO	(4.10)/ .161
7	NO	NO	YES	(4.10)/ .161
8	YES	YES	NO	(4.10)/ .161
9	YES	NO	YES	(4.10)/ .161

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	TITLE PICO FLEX SMT HEADER				
		3 PLACES ± --- ± .004		CHECKED BY PCURTIN	DATE 2001/08/16	MOLEX INCORPORATED				
		2 PLACES ± 0.10 ± ---		APPROVED BY MWILHITE	DATE 2001/08/16	MATERIAL NO. DOCUMENT NO. SDA-90814				
1 PLACE ± --- ± ---		ANGULAR ±1/2°		SEE CHART		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								SHEET NO. 1 OF 2		



ADDED PART FOOTPRINT EC NO: E2009-0235 DRAWN BY: RNS CHKD: CHKO 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	TITLE			
			4 PLACES	± ---	± ---	DMCNAMAR	2001/08/23	PICOFLEX SMT HEADER		
			3 PLACES	± ---	± ---	CHECKED BY	DATE			
			2 PLACES	± 0.10	± ---	BMAGUIRE	2001/08/23			
			1 PLACE	± 0.2	± ---	APPROVED BY	DATE			
			ANGULAR ± 1/2°		MWILHITE	2001/08/23	MOLEX MOLEX INCORPORATED			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE CHART		DOCUMENT NO. SDA-90814		SHEET NO. 2 OF 2	
SIZE A2 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										