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Part Number: [0908143810](#)
Status: **Active**
Overview: [Picoflex®](#)
Description: 1.27mm (.050") Pitch Picoflex® PF-50 SMT Header, Vertical, Low Profile, Surface Mount, Gold, 10 Circuits, Glow Wire Compatible

Documents:
[3D Model](#) [Product Specification PS-99020-0011 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

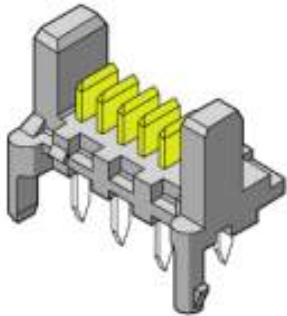
UL E29179

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 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) 0.063 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
Pitch - Term. Interface (in) 0.050 In
Pitch - Term. 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 Open Ends
Stackable No
Surface Mount Compatible (SMC) Yes



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

Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	2.4A
Voltage - Maximum	250V AC/DC

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

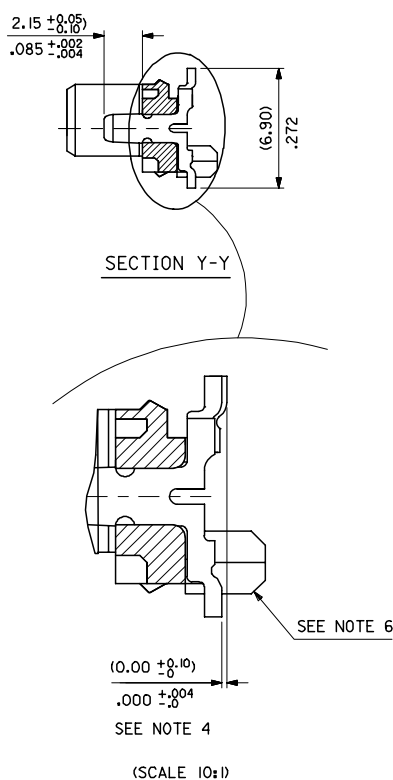
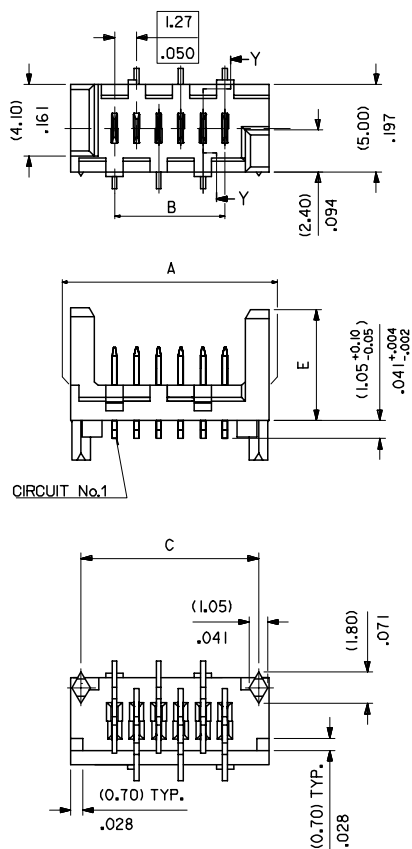
Material Info

Reference - Drawing Numbers

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

This document was generated on 04/23/2010

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- NOTES:
- MATERIAL: HOUSING: NYLON 4/6 30% G.F., UL 94 V-0, NATURAL (BEIGE)
TERMINAL- CARTRIDGE BRASS (0.28)/0.11 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 - **

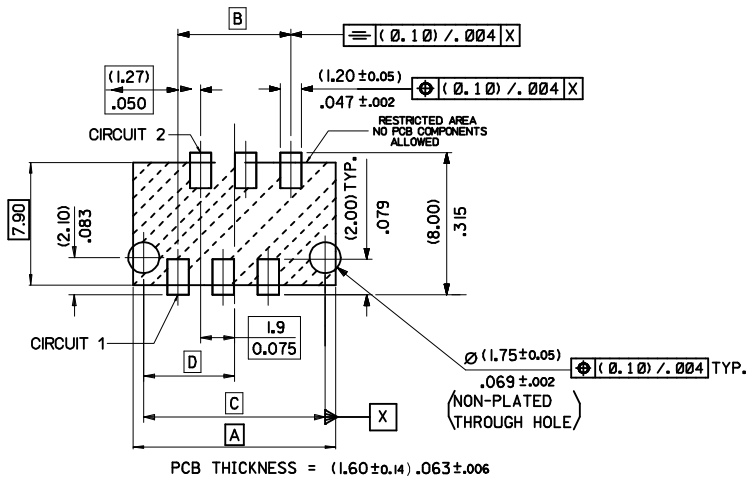
CIRCUIT SIZE

	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

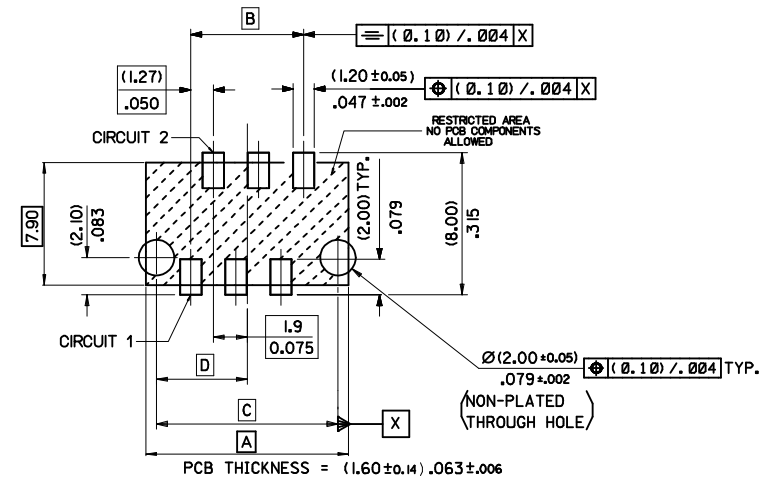
0= (3-5UM)/120-200UIN TIN VERSION
3= (0.76UM)/30UIN GOLD VERSION

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

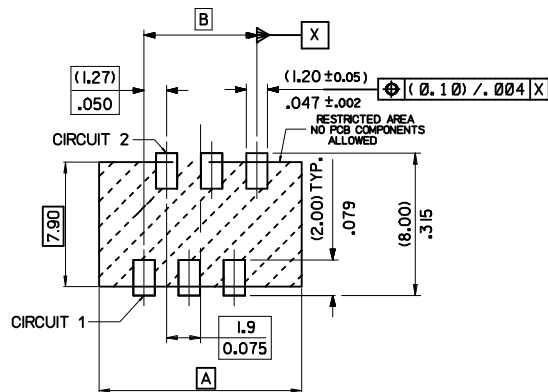
REDUCED CO-PL TOL EC NO: E2007-0304 DRAWN: JENNEY 2006/11/07 CHKD: JENNEY 2006/11/07 APPR: JENNEY 2006/11/13	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± ---	mm	INCH	DRAWN BY DMCNAMAR	DATE 2001/08/16	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		DOCUMENT NO. SDA-90814		SHEET NO. 1 OF 2				



PCB LAYOUT FOR TRANSITION FIT WITH PCB PEGS
HEADER VERSIONS 90814-0**/-2**/-8**/-9**,
VIEWED FROM COMPONENT SIDE



PCB LAYOUT FOR CLEARANCE FIT WITH PCB PEGS
HEADER VERSIONS 90814-0**/-2**/-8**/-9**,
VIEWED FROM COMPONENT SIDE



PCB THICKNESS = (1.60 ± 0.14) .063 ± .006

PCB LAYOUT FOR HEADERS WITHOUT PCB PEGS
HEADER VERSIONS 90814-3**/-5**/-6**/-7**,
VIEWED FROM COMPONENT SIDE

90814-0034	34	(46.96)/1.849	(41.91)/1.650	(45.76)/1.802	(22.88)/.901
90814-0026	26	(36.80)/1.449	(31.75)/1.250	(35.60)/1.402	(17.80)/.701
90814-0024	24	(34.26)/1.349	(29.21)/1.150	(33.06)/1.302	(16.53)/.651
90814-0022	22	(31.72)/1.249	(26.67)/1.050	(30.52)/1.202	(15.26)/.601
90814-0020	20	(29.18)/1.149	(24.13)/.950	(27.98)/1.102	(13.99)/.551
90814-0018	18	(26.64)/1.049	(21.59)/.850	(25.44)/1.002	(12.72)/.501
90814-0016	16	(24.10)/.949	(19.05)/.750	(22.90)/.902	(11.45)/.451
90814-0014	14	(21.56)/.849	(16.51)/.650	(20.36)/.802	(10.18)/.401
90814-0012	12	(19.02)/.749	(13.97)/.550	(17.82)/.702	(8.91)/.351
90814-0010	10	(16.48)/.649	(11.43)/.450	(15.28)/.602	(7.64)/.301
90814-0008	8	(13.94)/.549	(8.89)/.350	(12.74)/.502	(6.37)/.251
90814-0006	6	(11.40)/.449	(6.35)/.250	(10.20)/.402	(5.10)/.201
90814-0004	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: DRW:BYRNES 2008/11/07 CHKD: CHKO: 2008/11/10 APPR: JALLACE 2008/11/10 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$ $\nabla=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.2 ± --- ANGULAR ± 1/2°	MM ONLY	5:1	METRIC	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: DMCNAR DATE: 2001/08/23 CHECKED BY: BMAGUIRE DATE: 2001/08/23 APPROVED BY: MWILHITE DATE: 2001/08/23 MATERIAL NO.	TITLE: PICO FLEX SMT HEADER MOLEX INCORPORATED SDA-90814 SHEET NO. 2 OF 2			
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					