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Part Number:

0908140914

Status:

Active

Overview:

[picoflex](#)

Description:

1.27mm (.050") Pitch Picoflex® PF-50 SMT Header, Vertical, Low Profile, Surface Mount, Tin, 14 Circuits, Glow Wire Compatible

Documents:

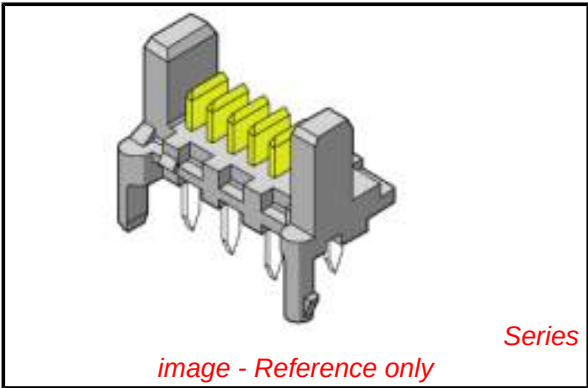
[3D Model](#)

[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)	14
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)	0.063 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)	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	Open Ends
Stackable	No
Surface Mount Compatible (SMC)	Yes



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

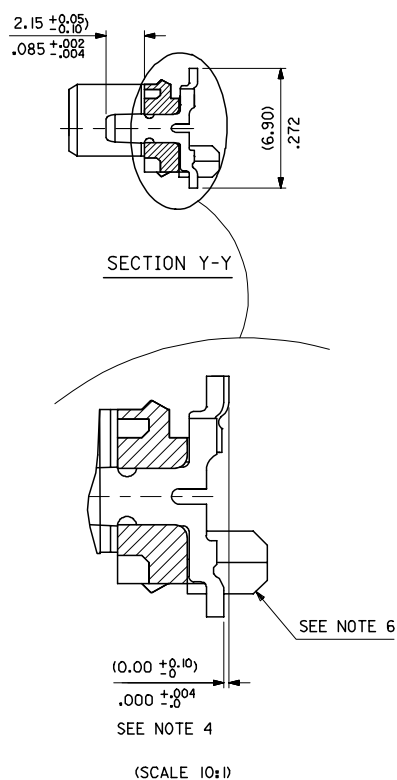
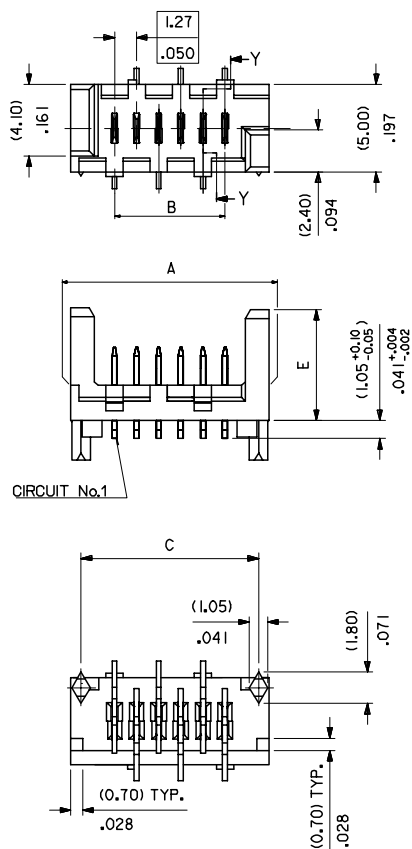
Material Info

Reference - Drawing Numbers

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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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 - **

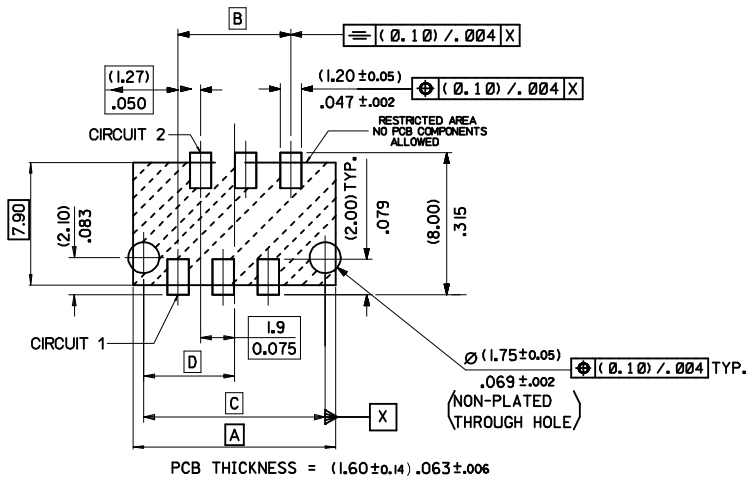
CIRCUIT SIZE

	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

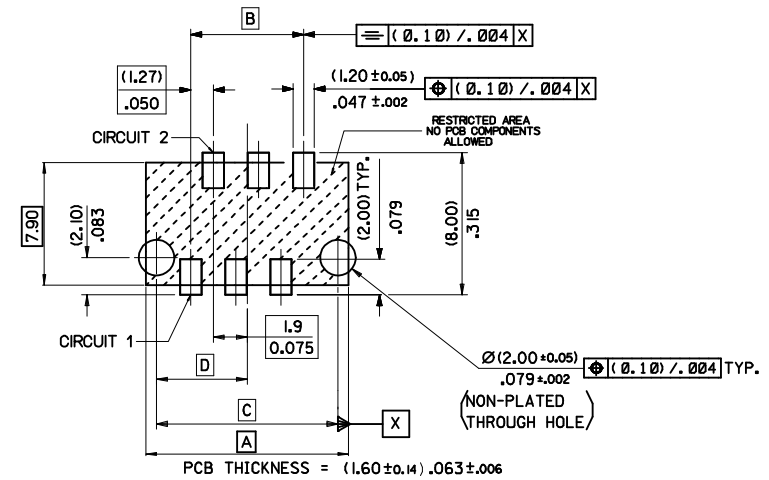
0= (3-5UM)/120-200UIN TIN VERSION
3= (0.76UM)/30UIN GOLD VERSION

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

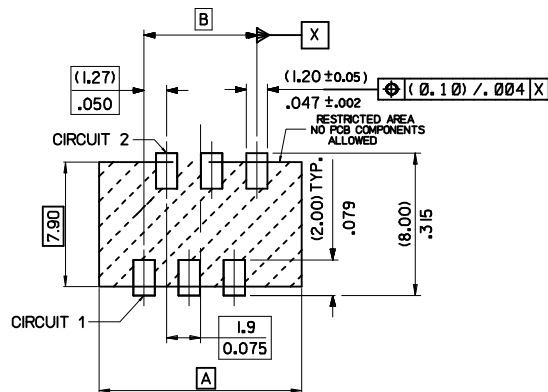
REDUCED CO-PL TOL EC NO: E2007-0304 DRAWN: JENNEY 2006/11/07 CHKD: JENNEY 2006/11/07 APPR: JENNEY 2006/11/13	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	mm INCH	DRAWN BY DMCNAMAR	DATE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



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					