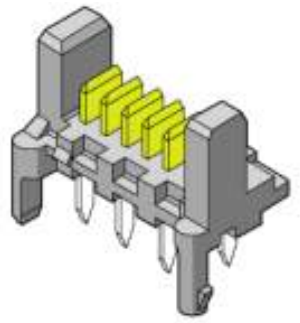
This document was generated on 06/08/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0908143726
Status: Active
Overview: picoflex
Description: 1.27mm (.050") Pitch Picoflex® PF-50 SMT Header, Vertical, Low Profile, Surface Mount, Gold, 26 Circuits, Glow Wire Compatible



Series image - Reference only

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)	26
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	No
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	No
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 Reviewed

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

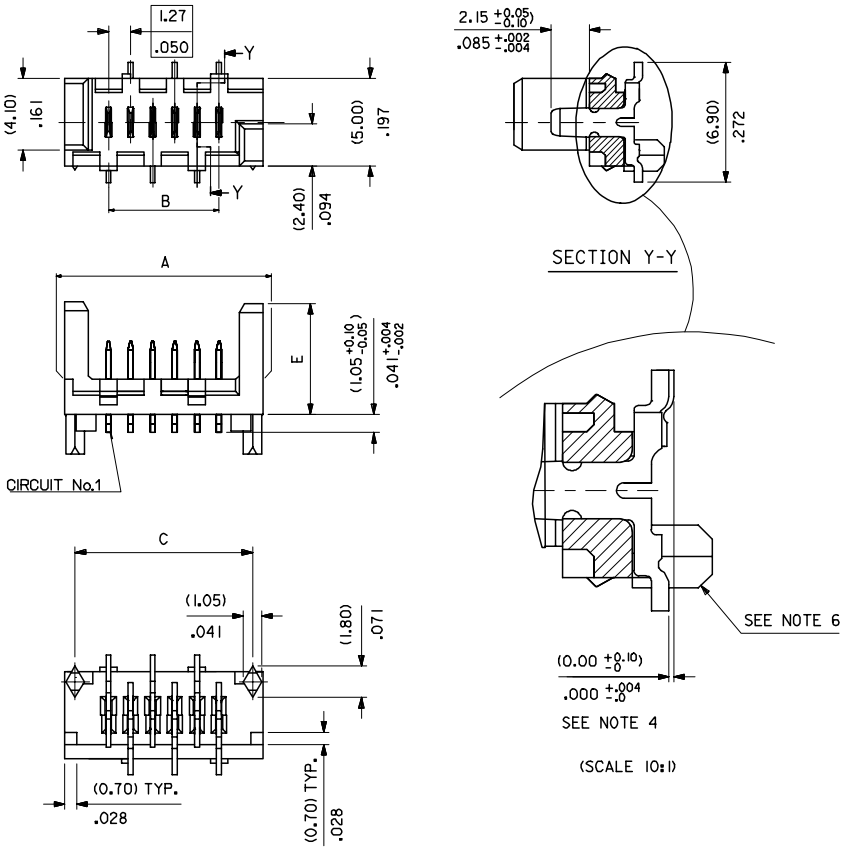
Material Info

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

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



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

PART NO.	NUMBER OF CKTS	DIMN. A	DIMN. B	DIMN. C	QUANTITY OF PARTS PER TUBE (-*0**/-*3**/-*6** & -*8** VERSIONS)	TOOLED
90814-**34	34	(46.96)/1.849	(41.91)/1.650	(45.76)/1.802	10	NO
90814-**26	26	(36.80)/1.449	(31.75)/1.250	(35.60)/1.402	14	YES
90814-**24	24	(34.26)/1.349	(29.21)/1.150	(33.06)/1.302	15	YES
90814-**22	22	(31.72)/1.249	(26.67)/1.050	(30.52)/1.202	16	YES
90814-**20	20	(29.18)/1.149	(24.13)/ .950	(27.98)/1.102	18	YES
90814-**18	18	(26.64)/1.049	(21.59)/ .850	(25.44)/1.002	20	YES
90814-**16	16	(24.10)/ .949	(19.05)/ .750	(22.90)/ .902	22	YES
90814-**14	14	(21.56)/ .849	(16.51)/ .650	(20.36)/ .802	25	YES
90814-**12	12	(19.02)/ .749	(13.97)/ .550	(17.82)/ .702	28	YES
90814-**10	10	(16.48)/ .649	(11.43)/ .450	(15.28)/ .602	32	YES
90814-**08	8	(13.94)/ .549	(8.89)/ .350	(12.74)/ .502	38	YES
90814-**06	6	(11.40)/. 449	(6.35)/ .250	(10.20)/ .402	46	YES
90814-**04	4	(8.86)/ .349	(3.81)/ .150	(7.66)/ .302	60	YES

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)/51uin 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

REDUCED CO-PL TOL
EC NO: E2007-0304
DRWN: JDENNEHY 2006/11/07
CH'KD: DMORIARTY 2006/11/07
APPR: JDENNEHY 2006/11/13
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .004
2 PLACES	± 0.10	± ---
1 PLACE	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: DMCNAMAR DATE: 2001/08/16
CHECKED BY: PCURTIN DATE: 2001/08/16
APPROVED BY: MWILHITE DATE: 2001/08/16

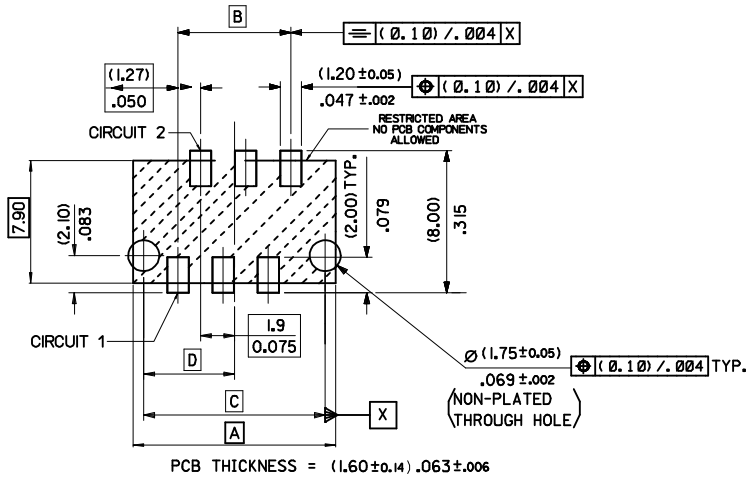
TITLE: PICOFLEX SMT HEADER

MOLEX INCORPORATED

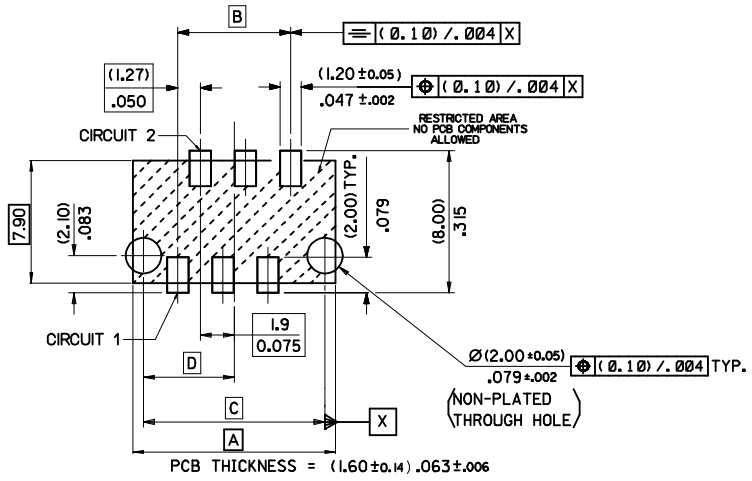
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-90814
SHEET NO.: 1 OF 2

SIZE: A2

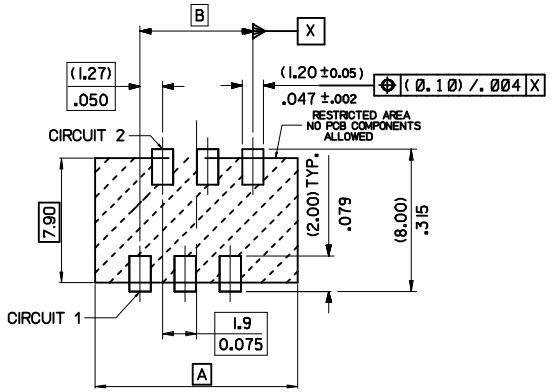
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PCB LAYOUT FOR TRANSITION FIT WITH PCB PEGS
*HEADER VERSIONS 90814-*0**/-*2**/-*8**/-*9**,*
VIEWED FROM COMPONENT SIDE



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

PART NO.	NUMBER OF CKTS	DIMN. A	DIMN. B	DIMN. C	DIMN. D
90814-**34	34	(46.96)/1.849	(41.91)/1.650	(45.76)/1.802	(22.88)/.901
90814-**26	26	(36.80)/1.449	(31.75)/1.250	(35.60)/1.402	(17.80)/.701
90814-**24	24	(34.26)/1.349	(29.21)/1.150	(33.06)/1.302	(16.53)/.651
90814-**22	22	(31.72)/1.249	(26.67)/1.050	(30.52)/1.202	(15.26)/.601
90814-**20	20	(29.18)/1.149	(24.13)/.950	(27.98)/1.102	(13.99)/.551
90814-**18	18	(26.64)/1.049	(21.59)/.850	(25.44)/1.002	(12.72)/.501
90814-**16	16	(24.10)/.949	(19.05)/.750	(22.90)/.902	(11.45)/.451
90814-**14	14	(21.56)/.849	(16.51)/.650	(20.36)/.802	(10.18)/.401
90814-**12	12	(19.02)/.749	(13.97)/.550	(17.82)/.702	(8.91)/.351
90814-**10	10	(16.48)/.649	(11.43)/.450	(15.28)/.602	(7.64)/.301
90814-**08	8	(13.94)/.549	(8.89)/.350	(12.74)/.502	(6.37)/.251
90814-**06	6	(11.40)/.449	(6.35)/.250	(10.20)/.402	(5.10)/.201
90814-**04	4	(8.86)/.349	(3.81)/.150	(7.66)/.302	(3.83)/.151

ADDED PART FOOTPRINT
EC NO: E2009-0235 2008/11/07
DRWN:OBYRNES 2008/11/10
CHKD:
APPR: JWALLACE 2008/11/10
DESCRIPTION
REV P

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.2	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: DMCNAMAR DATE: 2001/08/23
CHECKED BY: BMAGUIRE DATE: 2001/08/23
APPROVED BY: MWILHITE DATE: 2001/08/23

TITLE: PICOFLEX SMT HEADER

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-90814
SHEET NO.: 2 OF 2
SIZE: A2

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