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Part Number: [0908140820](#)
Status: **Active**
Overview: [picoflex](#)
Description: 1.27mm (.050") Pitch Picoflex® PF-50 SMT Header, Vertical, Low Profile, Surface Mount, Tin, 20 Circuits, Glow Wire Compatible

Documents:

3D Model	Product Specification PS-99020-0011 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

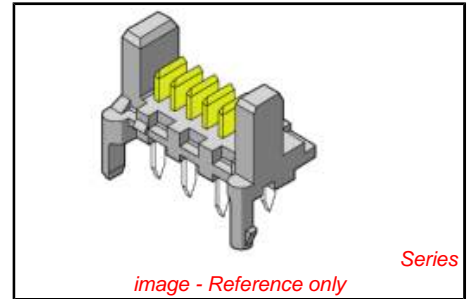
UL E29179

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)	20
Color - Resin	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 Reviewed	China RoHS
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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

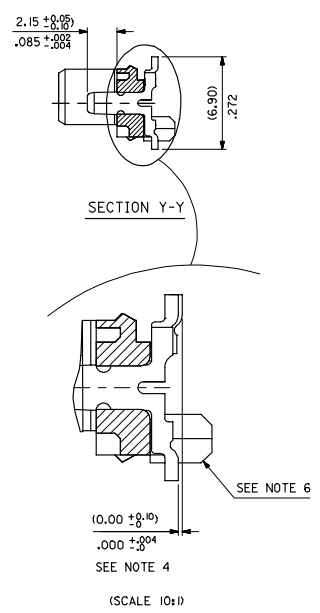
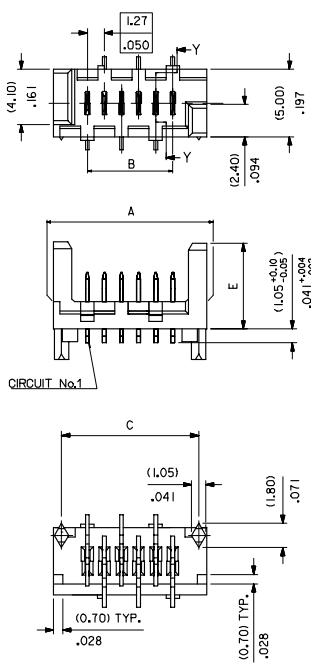
Material Info

Reference - Drawing Numbers

Packaging Specification PK-90814-001
Product Specification PS-99020-0011
Sales Drawing SDA-90814

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90814 - **

	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)/I20-200UIN 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)/.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)/.949	(19.05)/.0750	(22.90)/.0902	22	YES
90814-**-14	14	(21.56)/.849	(16.51)/.0650	(20.36)/.0802	25	YES
90814-**-12	12	(19.02)/.749	(13.97)/.0550	(17.82)/.0702	28	YES
90814-**-10	10	(16.48)/.649	(11.43)/.0450	(15.28)/.0602	32	YES
90814-**-08	8	(13.94)/.549	(8.89)/.0350	(12.74)/.0502	38	YES
90814-**-06	6	(11.40)/.449	(6.35)/.0250	(10.20)/.0402	46	YES
90814-**-04	4	(8.86)/.349	(3.81)/.0150	(7.66)/.0302	60	YES

- 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)/I20uin-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 (0.01)/.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

REDUCED CO-PL TOL EC NO: E2007-0304 DRW: JENNIEHY 2006/11/07 CHK: MORIARTY 2006/11/07 APPR: JENNIEHY 2006/11/13 REV:	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$ $\nabla=0$	mm INCH 4 PLACES ±--- ±--- 3 PLACES ±--- ±.004 2 PLACES ±.010 ±--- 1 PLACE ±--- ±--- ANGULAR ±1/2°	MM/IN DRAWN BY: DMCNAMAR DATE: 2001/08/16 CHECKED BY: DATE: PCURTIN DATE: 2001/08/16 APPROVED BY: DATE: MILWHITE DATE: 2001/08/16	5:1	METRIC	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART MATERIAL NO. SDA-90814	MOLEX INCORPORATED DOCUMENT NO. SDA-90814	PICO FLEX SMT HEADER		
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	SHEET NO. 1 OF 2				

