

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0908163014

Status:

Active

Description:

1.27mm (.050") Pitch Picoflex® SMT Latched Vertical Header, 14 Circuits, Gold (Au) Plating, Black

Documents:

3D Model

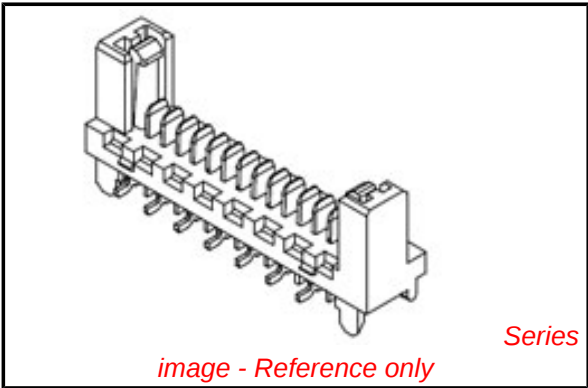
Drawing (PDF)

Product Specification PS-99020-0011 (PDF)

RoHS Certificate of Compliance (PDF)

| General                        |                 |
|--------------------------------|-----------------|
| Product Family                 | PCB Headers     |
| Series                         | 90816           |
| Application                    | Wire-to-Board   |
| Product Name                   | Picoflex®       |
| Physical                       |                 |
| Breakaway                      | No              |
| Circuits (Loaded)              | 14              |
| Circuits (maximum)             | 14              |
| Color - Resin                  | Black           |
| Durability (mating cycles max) | 5               |
| First Mate / Last Break        | No              |
| Glow-Wire Compliant            | No              |
| Guide to Mating Part           | Yes             |
| Keying to Mating Part          | N/A             |
| Lock to Mating Part            | Yes             |
| Material - Metal               | Brass           |
| Material - Plating Mating      | Gold            |
| Material - Plating Termination | Nickel          |
| Material - Resin               | Nylon           |
| Number of Rows                 | 1               |
| Orientation                    | Vertical        |
| PC Tail Length (in)            | 0.041 In        |
| PC Tail Length (mm)            | 1.05 mm         |
| PCB Locator                    | Yes             |
| PCB Retention                  | None            |
| 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)      | 0.76            |
| Polarized to Mating Part       | Yes             |
| Polarized to PCB               | Yes             |
| Shrouded                       | Partial         |
| Stackable                      | No              |
| Surface Mount Compatible (SMC) | Yes             |
| Temperature Range - Operating  | -40°C to +105°C |
| Termination Interface: Style   | Surface Mount   |

| Electrical                    |      |
|-------------------------------|------|
| Current - Maximum per Contact | 1.2A |
| Voltage - Maximum             | 250V |



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto: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

90816Series

Mates With

90327 Picoflex® PF-50

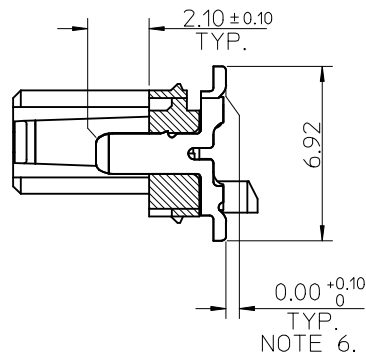
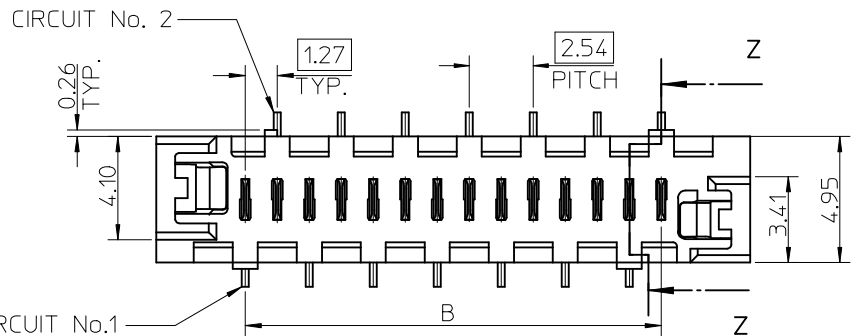
**Material Info**

**Reference - Drawing Numbers**

|                       |               |
|-----------------------|---------------|
| Product Specification | PS-99020-0011 |
| Sales Drawing         | SD-90816-001  |

This document was generated on 04/23/2010

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14 CIRCUIT SHOWN  
FOR ILLUSTRATION  
ONLY.

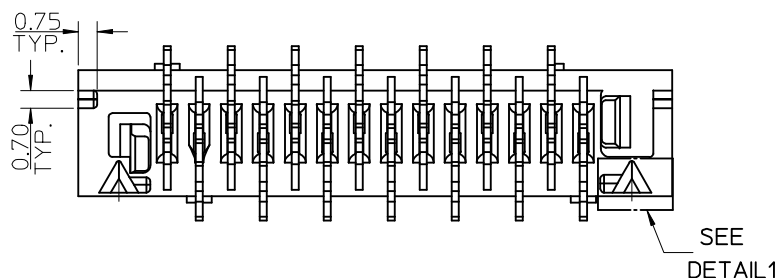
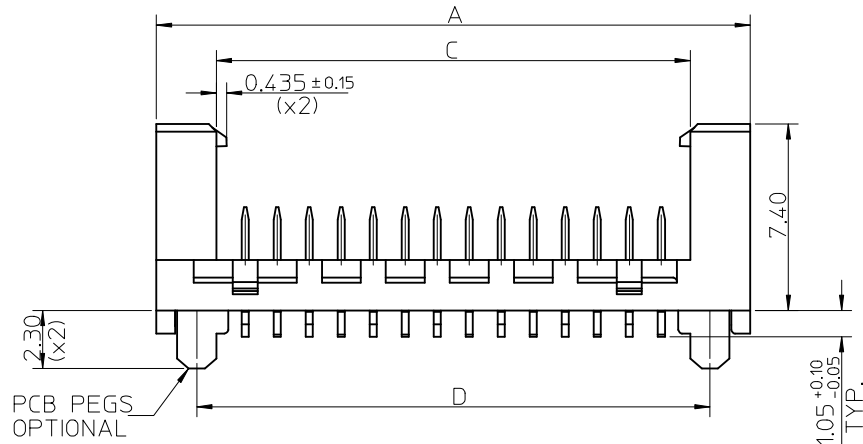
| PART NO.    | NUMBER<br>OF<br>CKTS | DIMN.<br>A | DIMN.<br>B | DIMN.<br>C | DIMN.<br>D |        |
|-------------|----------------------|------------|------------|------------|------------|--------|
| 90816-**-04 | 4                    | 10.86      | 3.81       | 6.11       | 7.66       | NOTE 7 |
| 90816-**-06 | 6                    | 13.40      | 6.35       | 8.65       | 10.20      |        |
| 90816-**-08 | 8                    | 15.94      | 8.89       | 11.19      | 12.74      |        |
| 90816-**-10 | 10                   | 18.48      | 11.43      | 13.73      | 15.28      |        |
| 90816-**-12 | 12                   | 21.02      | 13.97      | 16.27      | 17.82      |        |
| 90816-**-14 | 14                   | 23.56      | 16.51      | 18.81      | 20.36      |        |
| 90816-**-16 | 16                   | 26.10      | 19.05      | 21.35      | 22.90      |        |
| 90816-**-18 | 18                   | 28.64      | 21.59      | 23.89      | 25.44      |        |
| 90816-**-20 | 20                   | 31.18      | 24.13      | 26.43      | 27.98      |        |
| 90816-**-22 | 22                   | 33.72      | 26.67      | 28.97      | 30.52      |        |
| 90816-**-24 | 24                   | 36.26      | 29.21      | 31.51      | 33.06      |        |
| 90816-**-26 | 26                   | 38.80      | 31.75      | 34.05      | 35.60      |        |

90816 - \* \* \* \*

CIRCUIT SIZE.

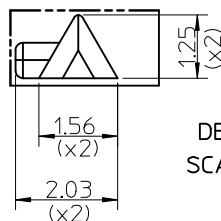
|   | PCB<br>PEGS | TUBE<br>PACKED | TAPE & REEL<br>PACKED |
|---|-------------|----------------|-----------------------|
| 0 | YES         | YES            | NO                    |
| 2 | YES         | NO             | YES                   |
| 3 | NO          | YES            | NO                    |
| 5 | NO          | NO             | YES                   |

0 = TIN VERSION  
3 = GOLD VERSION



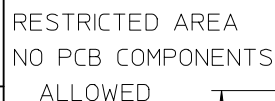
NOTES:

- 1- MATERIAL  
HOUSING: PPA, GLASS-FILLED, COLOUR: BLACK  
TERMINAL: BRASS
- 2- FINISHES: TERMINAL  
GOLD: CONTACT AREA: SELECTIVE GOLD, 0.76 MICRONS MINIMUM,  
SMT TAILS: GOLD FLASH, 0.10 MICRONS GOLD FLASH OVER  
NICKEL UNDERPLATE.  
TIN: 3 MICRONS MINIMUM OVER NICKEL UNDERPLATE.
- 3- PRODUCT SPECIFICATION: PS-99020-0011
- 4- PACKAGING SPECIFICATION: FOR TAPE AND REEL SEE: PK-90816-006  
FOR TUBE SEE: PK-90816-007
- 5- MATES WITH MOLEX 90327 PART SERIES.
- 6- ALL SMT TAILS TO LIE WITHIN A COPLANARITY BAND  
OF 0 - 0.10 MICROMETER REF. FROM EACH OTHER.
- 7- 4 CIRCUIT PART NOT AVAILABLE IN TAPE AND REEL.

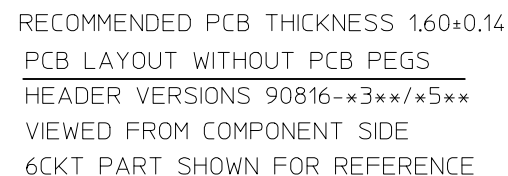


DETAIL1  
SCALE 10:1

|                                                                                                                         |                                   |                                       |                            |        |                                                            |                           |                                                                                                                                  |                    |                                             |                     |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------|----------------------------|--------|------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------|---------------------|
| ADDED NOTE 7<br>EC NO: E2009-0207<br>2008/11/10<br>DRWN:DBYRNES<br>CHKD:<br>2008/11/10<br>APPR: J WALLACE<br>2008/11/11 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE<br>MM ONLY |        | SCALE<br>5:1                                               | DESIGN UNITS<br>METRIC    | THIRD ANGLE<br>PROJECTION                                                                                                        |                    |                                             |                     |
|                                                                                                                         |                                   |                                       | mm                         | INCH   | DRAWN BY<br>D.BYRNES                                       |                           | DATE<br>2008/08/16                                                                                                               |                    | TITLE<br><br>PICOFLEX SMT<br>LATCHED HEADER |                     |
|                                                                                                                         |                                   |                                       | 4 PLACES                   | ± ---  | ± ---                                                      | CHECKED BY<br>JD WALLACE  |                                                                                                                                  | DATE<br>2008/08/26 |                                             |                     |
|                                                                                                                         |                                   |                                       | 3 PLACES                   | ± ---  | ± ---                                                      | APPROVED BY<br>JD WALLACE |                                                                                                                                  | DATE<br>2008/08/27 |                                             |                     |
|                                                                                                                         |                                   |                                       | 2 PLACES                   | ± 0.25 | ± ---                                                      | MATERIAL NO.              |                                                                                                                                  | DOCUMENT NO.       |                                             |                     |
|                                                                                                                         |                                   |                                       | 1 PLACE                    | ± 0.35 | ± ---                                                      | SEE CHART                 |                                                                                                                                  | SD-90816-001       |                                             | SHEET NO.<br>1 OF 2 |
|                                                                                                                         |                                   |                                       | ANGULAR ± 2 °              |        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                           | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                             |                     |
|                                                                                                                         |                                   |                                       |                            |        |                                                            |                           |                                                                                                                                  |                    |                                             |                     |
|                                                                                                                         |                                   |                                       |                            |        |                                                            |                           |                                                                                                                                  |                    |                                             |                     |
|                                                                                                                         |                                   |                                       |                            |        |                                                            |                           |                                                                                                                                  |                    |                                             |                     |



RESTRICTED AREA  
NO PCB COMPONENTS  
ALLOWED



|                                                                                                                                       |                    |                                   |                                       |  |                       |  |                                                                                                                               |              |                        |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|---------------------------------------|--|-----------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|--|--|
| SEE SHEET 1<br>EC NO: E2009-0207<br>2008/11/10<br>2008/11/10<br>2008/11/11<br>2008/11/11<br>DRWN: DBYRNES<br>CHKD:<br>APPR: J WALLACE | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE       |  | SCALE                                                                                                                         | DESIGN UNITS | THIRD ANGLE PROJECTION |  |  |
|                                                                                                                                       |                    |                                   |                                       |  | MM ONLY               |  | 5:1                                                                                                                           | METRIC       |                        |  |  |
|                                                                                                                                       |                    |                                   |                                       |  | DRAWN BY DATE         |  | TITLE<br><br>PICOFLEX SMT<br>LATCHED HEADER                                                                                   |              |                        |  |  |
|                                                                                                                                       |                    |                                   |                                       |  | CHECKED BY DATE       |  |                                                                                                                               |              |                        |  |  |
|                                                                                                                                       |                    |                                   |                                       |  | APPROVED BY DATE      |  | MOLEX INCORPORATED                                                                                                            |              |                        |  |  |
|                                                                                                                                       |                    |                                   |                                       |  | JD WALLACE 2008/08/27 |  |                                                                                                                               |              |                        |  |  |
|                                                                                                                                       |                    |                                   |                                       |  | MATERIAL NO.          |  | DOCUMENT NO.                                                                                                                  |              |                        |  |  |
|                                                                                                                                       |                    |                                   |                                       |  | SEE SHEET 1           |  | SD-90816-001                                                                                                                  |              |                        |  |  |
|                                                                                                                                       |                    |                                   |                                       |  | SIZE A3               |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |  |  |
|                                                                                                                                       |                    |                                   |                                       |  |                       |  |                                                                                                                               |              |                        |  |  |