

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0907790001

Status:

Active

Description:

1.27mm (.050") Pitch Picoflex® PF-50 Header, Vertical, Low Profile, High Temperature Surface Mount Compatible, 4 Circuits, Glow Wire Compatible

Documents:

3D Model

Drawing (PDF)

Product Specification PS-99020-0011 (PDF)

RoHS Certificate of Compliance (PDF)

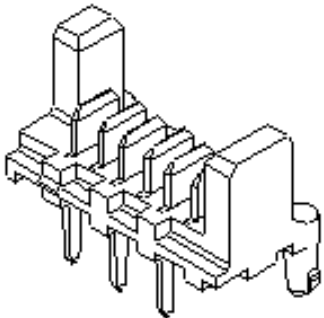
| General                        |                                |
|--------------------------------|--------------------------------|
| Product Family                 | PCB Headers                    |
| Series                         | 90779                          |
| Application                    | Wire-to-Board                  |
| Application Tooling Part Link  | 690081070                      |
| Product Name                   | Picoflex®                      |
| Physical                       |                                |
| Breakaway                      | No                             |
| Circuits (Loaded)              | 4                              |
| Color - Resin                  | Natural                        |
| Durability (mating cycles max) | 30                             |
| First Mate / Last Break        | No                             |
| 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 Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.062 In                       |
| PCB Thickness Recommended (mm) | 1.60 mm                        |
| Packaging Type                 | Bag                            |
| Pitch - Mating Interface (in)  | 0.050 In                       |
| Pitch - Mating Interface (mm)  | 1.27 mm                        |
| Plating min: Mating (µin)      | 160                            |
| Plating min: Mating (µm)       | 4                              |
| Plating min: Termination (µin) | 160                            |
| Plating min: Termination (µm)  | 4                              |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Shrouded                       | No                             |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -40°C to +105°C                |
| Termination Interface: Style   | Through Hole                   |
| Electrical                     |                                |
| Current - Maximum per Contact  | 1.2A                           |
| Voltage - Maximum              | 250V                           |

Solder Process Data

Lead-free Process Capability

Wave Capable (TH only)

Material Info



Series  
image - Reference only

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](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  
90779Series

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 |

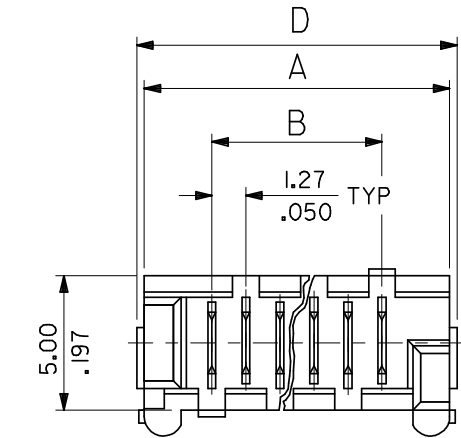
**Reference - Drawing Numbers**

Product Specification  
Sales Drawing

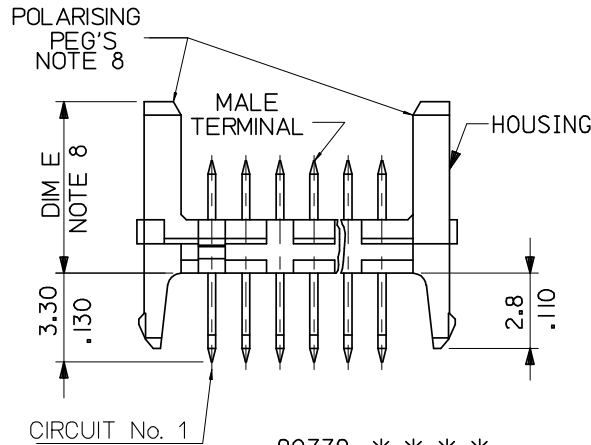
PS-99020-0011  
SDA-90779

This document was generated on 04/23/2010

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MOULD BASE COLOUR: NATURAL



CIRCUIT No. 1

90779-\*\*\*

0 = 4-6um TIN ASSY  
3 = 0.76um GOLD ASSY  
7 = 0.76um GOLD, TUBED  
9 = 4-6um TIN ASSY TUBED

CIRCUIT SIZE 04CKT TO 26CKT  
-SEE TABLE ABOVE FOR PART CODE

0 - STANDARD  
9 - SHORT VERSION

#### NOTES

1. HOUSING. NYLON 46, GLASS FILLED UL 94 V-0, NATURAL (WHITE).
2. TERMINAL. BRASS  
PLATING. TIN: 0.00127mm/.011" MIN NICKEL  
UNDER 0.004-0.006mm/.160-.240" TIN

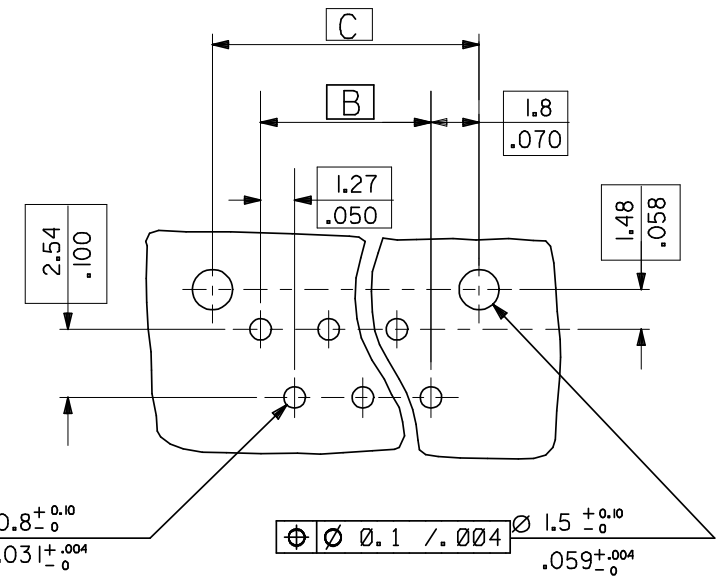
PLATING. GOLD: 0.00127mm/.050" MIN. NICKEL  
UNDER 0.003-0.005mm/.120-.200" TIN SELECTIVE  
AND 0.00076mm/.030" SELECTIVE GOLD

3. APPLICATION CLASS TO DIN 40040 HME (-25°C/+100°C)
4. PIN PUSH FORCE 7N
5. TEST VOLTAGE: 750V.A.C./1 MIN
6. COMPATIBLE WITH MOLEX PART 90327
7. PRODUCT SPECIFICATION: PS-99020-0011
8. POLARISING PEG AVAILABLE IN 2 OPTIONS  
DIM E: STANDARD 6.40mm/.252"  
DIM E: SHORT VERSION 4.10mm/.161"

|             |             |               |               |               |               |                   |
|-------------|-------------|---------------|---------------|---------------|---------------|-------------------|
| 90779-***13 | 26          | 36.80 / 1.449 | 31.75 / 1.250 | 35.35 / 1.392 | 37.26 / 1.467 | 14                |
| ↑ -**12     | 24          | 34.26 / 1.349 | 29.21 / 1.150 | 32.81 / 1.292 | 34.72 / 1.367 | 15                |
| -**11       | 22          | 31.72 / 1.249 | 26.67 / 1.050 | 30.27 / 1.192 | 32.18 / 1.267 | 16                |
| -**10       | 20          | 29.18 / 1.149 | 24.13 / .950  | 27.73 / 1.092 | 29.64 / 1.167 | 18                |
| -**08       | 18          | 26.64 / 1.049 | 21.59 / .850  | 25.19 / .992  | 27.10 / 1.067 | 19                |
| -**07       | 16          | 24.10 / .949  | 19.05 / .750  | 22.65 / .892  | 24.56 / .967  | 22                |
| -**06       | 14          | 21.56 / .849  | 16.51 / .650  | 20.11 / .792  | 22.02 / .867  | 24                |
| -**05       | 12          | 19.02 / .749  | 13.97 / .550  | 17.57 / .692  | 19.48 / .767  | 27                |
| -**04       | 10          | 16.48 / .649  | 11.43 / .450  | 15.03 / .592  | 16.94 / .667  | 32                |
| -**03       | 8           | 13.94 / .549  | 8.89 / .350   | 12.49 / .492  | 14.40 / .567  | 36                |
| ↓ -**02     | 6           | 11.40 / .449  | 6.35 / .250   | 9.95 / .392   | 11.86 / .467  | 44                |
| 90779-***01 | 4           | 8.86 / .349   | 3.81 / .150   | 7.41 / .292   | 9.32 / .367   | 57                |
| PART NO.    | NO. OF CKTS | DIM. A        | DIM. B        | DIM. C        | DIM. D        | NO. ASSYS IN TUBE |

LATCH FOR FEMALE CONNECTOR

PCB LAYOUT VIEWED FROM SOLDER SIDE.  
BOARD 1.60±0.14 THK  
.063±.006 THK.



|                                                                  |                                          |                                        |             |     |                 |                                                                                                                                                                                          |          |        |                           |                          |                                                                                                                                  |                              |                                                                                                                 |                     |
|------------------------------------------------------------------|------------------------------------------|----------------------------------------|-------------|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|---------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------|
| ADDED PART NUMBERS<br>SHORT POL PEG VERSION<br>EC NO: E2008-0379 | DRWN:DBYRNES<br>CHK'D:<br>APPR:J WALLACE | 2008/02/28<br>2008/02/28<br>2008/02/28 | DESCRIPTION | REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                                                                    |          |        | DIMENSION STYLE<br>MM/IN  |                          | SCALE<br>5:1                                                                                                                     | DESIGN UNITS<br>METRIC       |  THIRD ANGLE<br>PROJECTION |                     |
|                                                                  |                                          |                                        |             |     |                 |  =0<br><br> =0 |          | mm     | INCH                      | DRAWN BY<br>BGB          | DATE<br>1992/08/21                                                                                                               | TITLE<br><br>HEADER ASSEMBLY |                                                                                                                 |                     |
|                                                                  |                                          |                                        |             |     |                 |                                                                                                                                                                                          | 4 PLACES | ± ---  | ± .008                    | CHECKED BY<br>DMORIARTY  | DATE<br>2004/12/03                                                                                                               |                              |                                                                                                                 |                     |
|                                                                  |                                          |                                        |             |     |                 |                                                                                                                                                                                          | 3 PLACES | ± 0.20 | ± .008                    | APPROVED BY<br>JDENNEHY  | DATE<br>2004/12/03                                                                                                               |                              |                                                                                                                 |                     |
|                                                                  |                                          |                                        |             |     |                 |                                                                                                                                                                                          | 2 PLACES | ± 0.20 | ± ---                     | MOLEX MOLEX INCORPORATED |                                                                                                                                  |                              |                                                                                                                 |                     |
|                                                                  |                                          |                                        |             |     |                 |                                                                                                                                                                                          | 1 PLACE  | ± ---  | ± ---                     |                          |                                                                                                                                  |                              |                                                                                                                 |                     |
|                                                                  |                                          |                                        |             |     |                 | ANGULAR ± ---°                                                                                                                                                                           |          |        | MATERIAL NO.<br>SEE CHART |                          | DOCUMENT NO.<br>SDA-90779                                                                                                        |                              |                                                                                                                 | SHEET NO.<br>1 OF 1 |
|                                                                  |                                          |                                        |             |     |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                                                               |          |        | SIZE<br>A3                |                          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                              |                                                                                                                 |                     |