

**General Information**

|                           |                                                                  |
|---------------------------|------------------------------------------------------------------|
| <b>Part Number:</b>       | 76650-0129                                                       |
| <b>Manufacturer:</b>      | Molex / Waldom                                                   |
| <b>Title:</b>             | PicoBlade Connector Kit                                          |
| <b>Description:</b>       | SMT Friction Lock Vertical and Right Angle Header and Receptacle |
| <b>Product Family:</b>    | PicoBlade™                                                       |
| <b>Certificates:</b>      | (Molex parts within this kit) - UL and CSA                       |
| <b>Country of Origin:</b> | Kit assembled in U.S.A.                                          |

**Specifications****Design**

|                        |                         |
|------------------------|-------------------------|
| <b>Configuration:</b>  | Wire-to-Board           |
| <b>Pitch:</b>          | 1.25mm (.049")          |
| <b>Connector Type:</b> | Headers and Receptacles |

**Mounting**

|                        |                          |
|------------------------|--------------------------|
| <b>Orientation:</b>    | Right Angle and Vertical |
| <b>Circuit Sizes:</b>  | 2, 4, 6 and 8            |
| <b>Current Rating:</b> | 1 Amp                    |
| <b>Voltage:</b>        | 125 Volts                |
| <b>Wire size:</b>      | 32-28 AWG                |

**Product Highlights**

1.25mm (.049") pitch PicoBlade™ system is designed for high-density harness applications. PicoBlade provides the same 1.0 amperes of current as similar 2.00mm (.079") pitch systems, but in a more compact design. PicoBlade™ is offered in wire-to-board and wire-to-wire options. The system saves about 45% of PCB space compared to typical 2.00mm wire-to-board systems. It is a single row system, available in 2 to 15 circuits, with both surface mount and through-hole headers.

**Features and Benefits**

- Reliable terminal for solid electrical connection
- Friction lock for good mating retention
- Polarizing features ensures proper mating orientation
- Two solder tabs for better connection to the PCB

**Applications**

- Car Radios
- Process controls
- Cash dispensers
- Patient monitors
- Alarm systems
- Set top boxes
- Dvd players

**For additional Molex / Waldom Design and Solution kits please go to [www.molexkits.com](http://www.molexkits.com)**

**Bill of Materials for Part No. 76650-0129**

| <b>Molex Part No.</b> | <b>Country<br/>of Origin</b> | <b>Description</b>                                                             | <b>Quantity in<br/>Kit</b> |
|-----------------------|------------------------------|--------------------------------------------------------------------------------|----------------------------|
| 50058-8000-C          | Japan                        | PicoBlade™ Crimp Terminal, Female, 32-28 AWG                                   | 100                        |
| 51021-0200-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 2 Circuits                         | 5                          |
| 51021-0400-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 4 Circuits                         | 5                          |
| 51021-0600-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 6 Circuits                         | 5                          |
| 51021-0800-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 8 Circuits                         | 5                          |
| 53261-0271-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Right Angle, 2 Circuits | 5                          |
| 53261-0471-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Right Angle, 4 Circuits | 5                          |
| 53261-0671-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Right Angle, 6 Circuits | 5                          |
| 53261-0871-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Right Angle, 8 Circuits | 5                          |
| 53398-0271-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Vertical, 2 Circuits    | 5                          |
| 53398-0471-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Vertical, 4 Circuits    | 5                          |
| 53398-0671-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Vertical, 6 Circuits    | 5                          |
| 53398-0871-P          | Japan                        | 1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Vertical, 8 Circuits    | 5                          |

**Recommended Molex Tool(s) for Part No. 76650-0129\***

| <b>Molex Part No.</b> | <b>Country<br/>of Origin</b> | <b>Description</b> |
|-----------------------|------------------------------|--------------------|
| 63819-0400 *          | Sweden                       | Hand Crimp Tool    |
| 11-03-0043 *          | USA                          | Extraction Tool    |

\*Tool(s) not included in kit. Tool(s) ordered separately.