

## 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

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

Molex Part No.	Country of Origin	Description	Quantity in Kit
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\***

Molex Part No.	Country of Origin	Description
63819-0400 *	Sweden	Hand Crimp Tool
11-03-0043 *	USA	Extraction Tool

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