

## Datasheet for 76650-0185

### General Information

|                           |   |
|---------------------------|---|
| <b>Part Number:</b>       | 76650-0185  |
| <b>Manufacturer:</b>      | Molex / Waldom  |
| <b>Title:</b>             | CLIK-Mate Connector Kit   |
| <b>Description:</b>       | SMT Dual Positive lock Vertical and Right Angle Receptacle and Plug, 1.25mm (.050") Pitch |
| <b>Product Family:</b>    | CLIK-Mate™  |
| <b>Certificates:</b>      | (Molex Parts within this kit) - EU RoHS Compliant, 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> | Plugs and Receptacles     |
| <b>Mounting</b>        |                           |
| <b>Orientation:</b>    | Right Angle and Vertical  |
| <b>Circuit sizes:</b>  | 2, 3, 4, 5 and 6          |
| <b>Current Rating:</b> | 1 Amp                     |
| <b>Voltage Rating:</b> | 50 VoltsAC(RMS) / VoltsDC |
| <b>Wire size:</b>      | 28-26 AWG                 |

### Product Highlights

Molex's new 1.25mm pitch CLIK-Mate series has a superior lock design that offers easier use and better mating retention, compared to competitive versions. The system also provides about 60% space savings compared to similar dual-lock 2.0mm pitch versions. CLIK-Mate 1.25 was designed for applications, such as LCD TVs, that require higher pin count connectors to carry more signal lines in less space. This system has a similar design to Molex's CLIK-Mate 2.0 family and includes many of the same features.

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| Features and Benefits   | Applications  |
|---|---|
| <ul style="list-style-type: none"> <li>• Robust single positive inner lock (below 8 circuits), audible "click", low insertion force and secure mating</li> <li>• Flat area for pick-and-place, no costly capton tape needed</li> <li>• Tuning fork style contact design, secure contact, and avoids terminal stubbing</li> <li>• Low insertion force, easy and quick mating for operators</li> <li>• Reinforced metal solder tabs, housing wall support and secure PCB retention</li> </ul> | <ul style="list-style-type: none"> <li>• LCD/PDP Televisions</li> <li>• Gaming/Pachinko</li> <li>• Data Communication Equipment</li> <li>• Any application requiring superior mating assurance</li> </ul> |

**Bill of Materials for Part No. 76650-0185**

| Molex Part No. | Country of Origin | Description  | Quantity in Kit |
|----------------|-------------------|--|-----------------|
| 502381-0000-C  | Japan             | CLIK-Mate™ Male Terminal for 1.25mm (.049") Pitch                | 100             |
| 502382-0270    | Japan             | 1.25mm (.049") Pitch 2 Circuit CLIK-Mate™ Vertical Receptacle    | 5               |
| 502382-0370    | Japan             | 1.25mm (.049") Pitch 3 Circuit CLIK-Mate™ Vertical Receptacle    | 5               |
| 502382-0470    | Japan             | 1.25mm (.049") Pitch 4 Circuit CLIK-Mate™ Vertical Receptacle    | 5               |
| 502382-0570    | Japan             | 1.25mm (.049") Pitch 5 Circuit CLIK-Mate™ Vertical Receptacle    | 3               |
| 502382-0670    | Japan             | 1.25mm (.049") Pitch 6 Circuit CLIK-Mate™ Vertical Receptacle    | 2               |
| 502386-0270    | Japan             | 1.25mm (.049") Pitch 2 Circuit CLIK-Mate™ Right Angle Receptacle | 5               |
| 502386-0370    | Japan             | 1.25mm (.049") Pitch 3 Circuit CLIK-Mate™ Right Angle Receptacle | 5               |
| 502386-0470    | Japan             | 1.25mm (.049") Pitch 4 Circuit CLIK-Mate™ Right Angle Receptacle | 5               |
| 502386-0570    | Japan             | 1.25mm (.049") Pitch 5 Circuit CLIK-Mate™ Right Angle Receptacle | 3               |
| 502386-0670    | Japan             | 1.25mm (.049") Pitch 6 Circuit CLIK-Mate™ Right Angle Receptacle | 2               |
| 502380-0200    | Japan             | 1.25mm (.049") Pitch 2 Circuit CLIK-Mate™ Plug                   | 5               |
| 502380-0300    | Japan             | 1.25mm (.049") Pitch 3 Circuit CLIK-Mate™ Plug                   | 5               |
| 502380-0400    | Japan             | 1.25mm (.049") Pitch 4 Circuit CLIK-Mate™ Plug                   | 5               |
| 502380-0500    | Japan             | 1.25mm (.049") Pitch 5 Circuit CLIK-Mate™ Plug                   | 3               |
| 502380-0600    | Japan             | 1.25mm (.049") Pitch 6 Circuit CLIK-Mate™ Plug                   | 2               |

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

### Datasheet for 76650-0185

**Recommended Molex Tool(s) for Part No. 76650-0185\***

| <b>Molex Part No.</b> | <b>Country of Origin</b> | <b>Description</b> |
|-----------------------|--------------------------|--------------------|
| 63819-4400 *          | Sweden                   | Crimp Hand Tool    |

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