

## General Information

|                           |   |
|---------------------------|---|
| <b>Part Number:</b>       | 76650-0139  |
| <b>Manufacturer:</b>      | Molex / Waldom  |
| <b>Title:</b>             | Mini Mi II Connector Kit                                      |
| <b>Description:</b>       | IDT SMT Right Angle Header and Receptacle                     |
| <b>Product Family:</b>    | Mini Mi II™   |
| <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

|                        |   |
|------------------------|---|
| <b>Design</b>          |   |
| <b>Configuration:</b>  | Wire-to-Board                             |
| <b>Pitch:</b>          | 1.25mm (.049")                            |
| <b>Connector Type:</b> | Surface Mount Headers and IDT Receptacles |
| <b>Mounting</b>        |   |
| <b>Orientation:</b>    | Right Angle                               |
| <b>Circuit Sizes:</b>  | 2, 4, 7, 12, 18 and 20                    |
| <b>Current Rating:</b> | 1.5 Amps                                  |
| <b>Voltage:</b>        | 100 Volts                                 |
| <b>Wire size:</b>      | 28-26 AWG                                 |

## Product Highlights

Mini Mi II™ wire harness system is designed for high-density harness applications. Mini Mi II provides the same 1.5 amperes of current as similar 2.00mm (.079") pitch systems, but in a more compact design. Molex's Integrated Product Division provides the new Mini Mill system in both wire-to-board and wire-to-wire options with different custom lengths and wire configurations enabling multi-branch harnessing configurations, similar to Molex's existing 2.00mm (.079") pitch Mill system. The system saves about 45% of PCB space compared to 2.00mm Mill. Mini Mill is available in 2 to 40 circuits in single/dual row and SMT/through-hole styles.

### Features and Benefits

- 1.5 amps meets office automation standards
- Internal positive lock for secure retention
- IDT housing for cost effective termination

### Applications

- Security devices
- Car audio, car multimedia, car HVAC
- Office equipment
- Set-up boxes

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

**Bill of Materials for Part No. 76650-0139**

| Molex Part No. | Country of Origin | Description  | Quantity in Kit |
|----------------|-------------------|--|-----------------|
| 54596-0210     | Japan             | 1.25mm (.049") Pitch Mini Mi II IDT receptacle, 2 Circuits             | 5               |
| 54596-0410     | Japan             | 1.25mm (.049") Pitch Mini Mi II IDT receptacle, 4 Circuits             | 5               |
| 54596-0710     | Japan             | 1.25mm (.049") Pitch Mini Mi II IDT receptacle, 7 Circuits             | 5               |
| 54596-1210     | Japan             | 1.25mm (.049") Pitch Mini Mi II IDT receptacle, 12 Circuits            | 5               |
| 54596-1810     | Japan             | 1.25mm (.049") Pitch Mini Mi II IDT receptacle, 18 Circuits            | 5               |
| 54596-2010     | Japan             | 1.25mm (.049") Pitch Mini Mi II IDT receptacle, 20 Circuits            | 5               |
| 55456-0269     | Japan             | 1.25mm (.049") Pitch Mini Mi II™ Header, Right Angle, SMT, 2 Circuits  | 5               |
| 55456-0469     | Japan             | 1.25mm (.049") Pitch Mini Mi II™ Header, Right Angle, SMT, 4 Circuits  | 5               |
| 55456-0769     | Japan             | 1.25mm (.049") Pitch Mini Mi II™ Header, Right Angle, SMT, 7 Circuits  | 5               |
| 55456-1269     | Japan             | 1.25mm (.049") Pitch Mini Mi II™ Header, Right Angle, SMT, 12 Circuits | 5               |
| 55456-1869     | Japan             | 1.25mm (.049") Pitch Mini Mi II™ Header, Right Angle, SMT, 18 Circuits | 5               |
| 55456-2069     | Japan             | 1.25mm (.049") Pitch Mini Mi II™ Header, Right Angle, SMT, 20 Circuits | 5               |

**No Recommended Molex Tool for Part No. 76650-0139**

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