

# 3M™ PCB

.100" × .100" Two Row

78XX Series



- Single connector termination reduces overall connector cost
- 7.3 mm terminated height for applications requiring low-profile off the board
- Solder bumps facilitate board cleaning
- Fits standard .100" x .100" header layout
- Uses less board area than 4-row design
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3Mconnector.com](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: July 14, 2011

TS-2104-B  
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## Physical

### Insulation:

Material: Glass Filled Polyester

Flammability: UL 94V-0

Color: Gray

### Contact

Material: Beryllium Copper

### Plating

Underplating: 100 µ" [2.54 mm] Nickel

U Slot and Solder Tails: Gold Flash

Wire Accommodation 26 AWG Stranded, 28 AWG Solid or Stranded, 30 AWG Solid

## Electrical

Current Rating: 1.0 A

Insulation Resistance: > 1,000 MΩ min. at 500<sub>VDC</sub>

Withstanding Voltage: 1,000 V<sub>AC</sub> for 1 minute

## Environmental

Temperature Rating: -55°C to +105°C

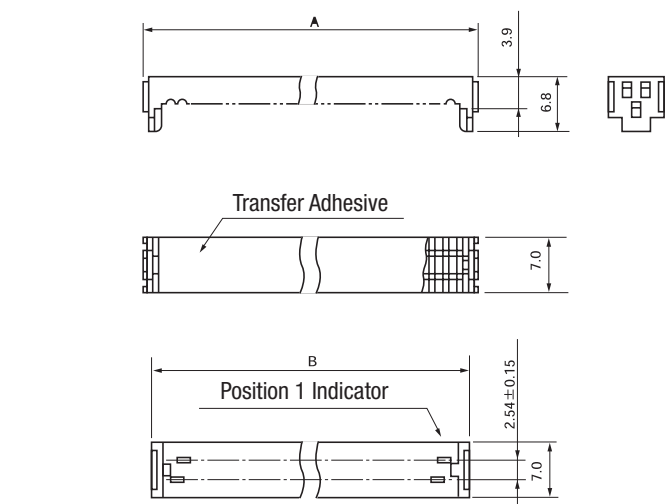
Process Rating: Wave solder only

UL File No.: E68080



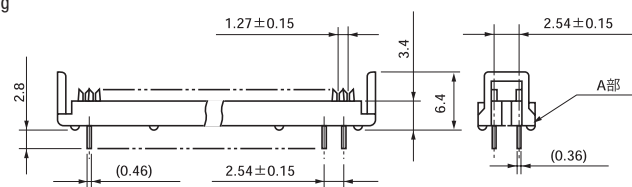
Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnector.com>

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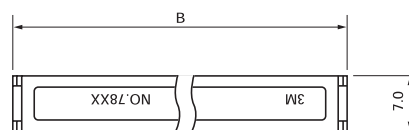
| Contact Quantity | A    | B    | C    |
|------------------|------|------|------|
| 10               | 17.4 | 17.8 | 10.2 |
| 14               | 22.5 | 22.9 | 15.2 |
| 16               | 25   | 25.4 | 17.8 |
| 20               | 30.1 | 30.5 | 22.9 |
| 26               | 37.7 | 38.1 | 30.5 |
| 30               | 42.8 | 43.2 | 35.6 |
| 34               | 47.9 | 48.3 | 40.6 |
| 40               | 55.5 | 55.9 | 48.3 |
| 50               | 68.2 | 68.6 | 61   |
| 60               | 80.9 | 81.3 | 73.7 |
| 64               | 86   | 86.4 | 78.7 |

See Ordering Information

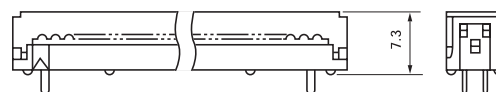
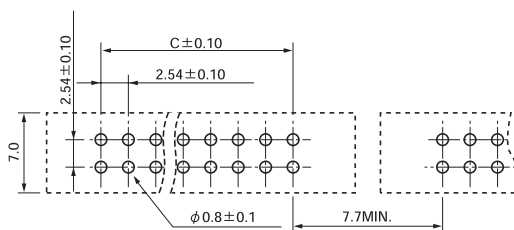


Solder Bump

Assembled Dimensions



Recommended Board Layout



| Inch<br>[mm]           |     |      |
|------------------------|-----|------|
| Tolerance Unless Noted |     |      |
|                        | .0  | .00  |
| Inch                   | ±.3 | ±.13 |

## Ordering Information

78XX - 000XPR

Contact Quantity  
See Table

Solder Tail Length:  
0 = 2.8 mm  
6 = 3.8 mm

Assembly Equipment: 3640 press (or equivalent), 3443-71 Locator Plate, 3442-9 Platen.

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