

# 3M™ PCB

.100" x .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

Date Modified: March 1, 2006

TS-2104-02  
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## Physical

### Insulation

Material: Glass Filled Ployester

Flammability: UL 94V-0

Color: Gray

### Contact

Material: Beryllium Copper

### Plating

Underplating: 100μ" [ 2.54μm ] Nickel

U slot and Solder Tails: Gold flash

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

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## Electrical

**Current Rating:** 1.0 A

**Insulation Resistance:** > 1000 MΩ min. at 500 VDC

**Withstanding Voltage:** 1000 V AC for 1 minute

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## Environmental

**Temperature Rating:** -55°C to +105°C

Note: May require process accommodations in "no lead" soldering.

\*\*RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated in writing by 3M, this information represents 3M's knowledge and belief based on information provided by third party suppliers to 3M.

UL File No.: E68080

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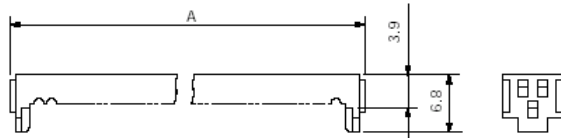
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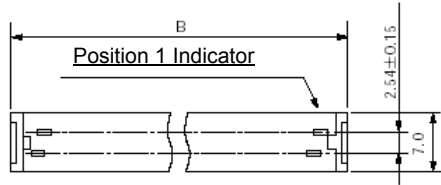
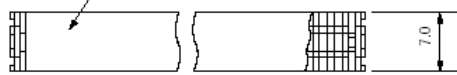
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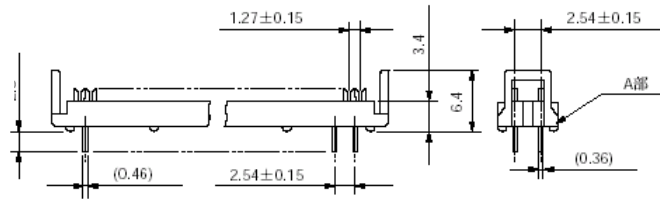


Transfer Adhesive



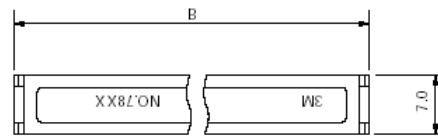
| Contact Quantity | A    | B    | C    |
|------------------|------|------|------|
| 10               | 17.4 | 17.8 | 10.2 |
| 14               | 22.5 | 22.9 | 15.2 |
| 16               | 25   | 25.4 | 17.8 |
| 20               | 30.1 | 30.5 | 22.9 |
| 26               | 37.7 | 38.1 | 30.5 |
| 30               | 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

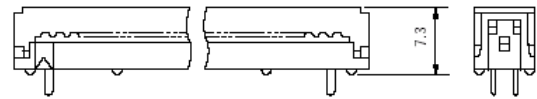
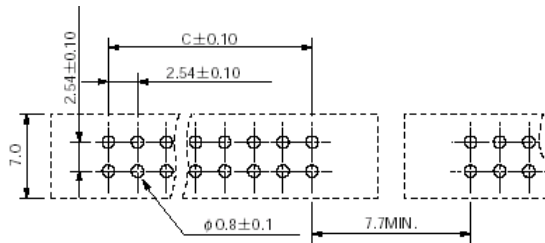


Solder Bump

Assembled Dimensions



Recommended Board Layout



mm  
[inch]

| Tolerance Unless Noted |          |
|------------------------|----------|
|                        | .0 .00   |
| mm                     | ±.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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# 3M

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