.050” Mini D Ribbon (MDR) Connectors
Boardmount Thru Hole Right Angle Receptacle — Shielded  X102XX-55X3XX Series

- Boardmount thru hole right angle shielded I/O receptacle
- High temperature (SMT compatible) PCT material
- Ground lock board retention
- Ribbon type contact — industry preferred
- Reliable repetitive plugging/unplugging
- Latch design for easy use
- IEEE 1284 interface — 36 position
- MDR-digital LCD interface — 20, 26 position
- Positions: 14, 20, 26, 36, 40, 50 and 68

Date Modified: February 19, 1999

TS-0621-06
Sheet 1 of 3

Physical

Insulation
Material: Glass Reinforced Polyester (PCT)
Flammability: UL 94V-0
Color: See ordering information

Contact
Material: Copper Alloy (C521)
Plating
Underplate: See ordering information
Wiping Area: See ordering information

Shroud & Latch Hook
Material: Steel
Plating: Nickel

Ground Lock
Material: Copper Alloy
Plating: Tin Lead

Marking: 3M Logo and Part Number

Electrical

Current Rating: 1 A
Insulation Resistance: >5 \times 10^8\Omega \text{ at 500 Vdc}
Withstanding Voltage: 500 Vrms for 1 Minute

Environmental

Temperature Rating: -55°C to +105°C
Process Rating: Surface mount compatible up to 240°C peak for short durations

UL File No.: E68080

3M Interconnect Solutions Division
6801 River Place Blvd.
Austin, TX 78726-9000

For technical, sales or ordering information call 800-225-5373
### Dimensions

<table>
<thead>
<tr>
<th>Contact Quantity</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tbody>
<tr>
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<td>.300</td>
<td>.93</td>
<td>1.16</td>
<td>.50</td>
<td>.77</td>
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<td>20</td>
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<td>1.08</td>
<td>1.31</td>
<td>.65</td>
<td>.92</td>
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<td>26</td>
<td>.600</td>
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<td>1.81</td>
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<td>1.200</td>
<td>1.83</td>
<td>2.06</td>
<td>1.40</td>
<td>1.67</td>
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<tr>
<td>68</td>
<td>1.650</td>
<td>2.28</td>
<td>2.51</td>
<td>1.85</td>
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</table>

### Ordering Information

**X102XX-55X3XX**

- **Connector Material:**
  - Blank = Beige
  - D = Black (20 pos. only)

- **Plating Options for Wiping Area:**
  - JL = 8 µ" [0.2 µm] Min. Gold over 50 µ" [1.27 µm] Min. Ni.
  - VC = 30 µ" [0.76 µm] Min. Gold over 100 µ" [2.54 µm] Min. Ni.

- **Panelmount thread size**
  - G = M2.5 (14, 20, 26, 36, 40 position)
  - H = #4–40 (20, 36, 50 & 68 position)

Note: Must order panelmount screws: 3344-38 for M2.5, 3344-44 for #4-40.
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<tr>
<th>Contact Quantity</th>
<th>Dimensions A</th>
<th>Dimensions B</th>
<th>Dimensions C</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>.450 [11.43]</td>
<td>1.081 [27.45]</td>
<td>.94 [23.8]</td>
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<tr>
<td>50</td>
<td>1.200 [30.48]</td>
<td>1.831 [46.50]</td>
<td>1.69 [42.8]</td>
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<tr>
<td>68</td>
<td>1.650 [41.91]</td>
<td>2.281 [57.93]</td>
<td>2.13 [54.2]</td>
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</table>

*Note: Plated through holes for .063 board thickness

Recommended Board Layout
(Viewed from Connector Side)

Recommended Panel Cut-Out
Note: Panel thickness .079 [2.00] Max.