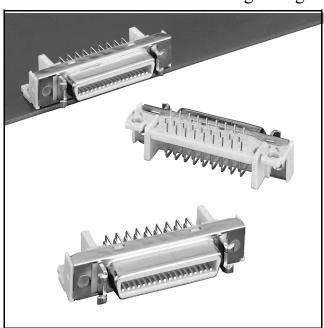
3M™ Mini D Ribbon (MDR) Connectors

.050" Boardmount Thru-Hole Right Angle Receptacle - Shielded

102 Series



- Wiper-on-wiper contact for reliable repetitive plugging
- SMT compatible PCT insulator material
- · Ground lock PCB retention
- Interface latch design for connection stability
- MDR digital LCD interface as a 20 or 26 contact connector
- Contacts: 14, 20, 26, 36, 40, 50 and 68
- RoHS* compliant version (-PL or -PC plating suffix) available

Date Modified: April 5, 2005

TS-0621-10 Sheet 1 of 3

Physical

Insulation

Material: Glass Reinforced Polyester (PBT)

Flammability: UL 94V-0

Color: See ordering information

Contact Material: Copper Alloy (C521)

Plating

Underplating: See ordering information Wiping Area: See ordering information Solder Tails: See ordering information

Shroud & Latch Hook

Material: Steel Plating: Nickel

Ground Lock

Material: Copper Alloy Plating: Matte tin

Marking: 3M Logo & Part Number

Electrical

Current Rating: 1 A

Insulation Resistance: $> 5 \times 10^8 \Omega$ at 500 VDC **Withstanding Voltage:** 500 Vrms for 1 Minute

Environmental

Temperature Rating: -55°C to +105°C

Process Rating: Surface mount compatible - max. temp. 240°-250°C for 10 seconds.

UL File No.: E68080 *RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

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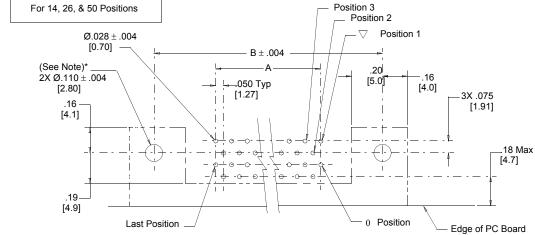
| Contact | Contact Dimensions | | | | | Inch | | |
|--|--------------------|--|---------------|------------------------------------|---|--|--|--|
| Quantity | A | В | C | D | E | [mm] | | |
| 14 | 0.300 [7.62] | 0.93 [23.6] | 1.16 [29.5] | 0.50 [12.6] | 0.77 [19.5] | Tolerance Unless Noted | | |
| 20 | 0.450 [11.43] | 1.08 [27.5] | 1.31 [33.4] | 0.65 [16.4] | 0.92 [23.4] | .0 .00 .000 | | |
| 26 | 0.600 [15.24] | 1.23 [31.3] | 1.46 [37.2] | 0.80 [20.2] | 1.07 [27.2] | inch ±.1 ±.01 ±.005 | | |
| 36 | 0.850 [21.59] | 1.48 [37.6] | 1.71 [43.5] | 1.05 [26.6] | 1.32 [33.5] | [] Dimensions for Reference | | |
| 40 | 0.950 [24.13] | 1.58 [40.2] | 1.81 [46.1] | 1.15 [29.1] | 1.42 [36.1] | Only | | |
| 50 68 | 1.200 [30.48] | 1.83 [46.5] 2.28 [57.9] | 2.06 [52.4] | 1.40 [35.5] 1.85 [46.9] | 1.67 [42.4] 2.12 [53.8] | | | |
| .45 [11.4] .19 [4.8] | .21 | — C— — B— — A | Position 3 | P | osition 2 — \bigtriangledown Position 1 — \odot Position 19 [4.8] | 3X .075 [1.90] .0157 Sq [0.399] | | |
| (2X) Threaded Hole for Panel Mounting (See Note in Ordering Information) Position 3 Position 2 Position 1 Position 1 | | | | | | | | |
| Last Po | | .050 Typ [1.27] | 11 | \ | 09 | | | |
| Ordering In | iformation | • | X102XX-55 | X3XX | | | | |
| | Blank = D = Bla | ctor Material: = Beige ack (20 pos. only) Contact Quantity: | | Wi L = C : SG J i P | = 30 μ" [0.76 μm] Min older tail plating: or V = tin-lead over Ni = flash gold over Ni (R nelmount thread size: | 40 ====!#i==) | | |
| ote: Must order panelmount screws: 3344-38 for M2.5, 3344-44 for #4-40. G = M2.5 (14, 20, 26, 36, 40 position) H = #4-40 (20, 36, 50 & 68 position) Sheet | | | | | | | | |

.050" Boardmount Thru-Hole Right Angle Receptacle - Shielded

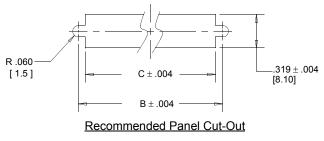
102 Series

| Contact | Dimensions | | | | | |
|----------|---------------|---------------|-------------|--|--|--|
| Quantity | A | В | C | | | |
| 14 | .300 [7.62] | .931 [23.64] | .78 [19.9] | | | |
| 20 | .450 [11.43] | 1.081 [27.45] | .94 [23.8] | | | |
| 26 | .600 [15.24] | 1.231 [31.26] | 1.09 [27.6] | | | |
| 36 | .850 [21.59] | 1.481 [37.61] | 1.33 [33.9] | | | |
| 40 | .950 [24.13] | 1.581 [40.15] | 1.44 [36.5] | | | |
| 50 | 1.200 [30.48] | 1.831 [46.50] | 1.69 [42.8] | | | |
| 68 | 1.650 [41.91] | 2.281 [57.93] | 2.13 [54.2] | | | |

Recommended Board Layout (Viewed from Connector Side) For 20, 36, 40, & 68 Positions Position 3 Position 2 Ø $.028 \pm .004$ Position 1 [0.70] $B \pm .004$ (See Note)* -16 $2X \hspace{0.1cm} \varnothing.110 \pm .004$.050 Typ [5.0] [4.0] [2.80] 3X .075 [1.27] [1.91] .16 [4.1] .18 Max [4.7] .19 Last Position [4.9] Edge of PC Board 0 Position



*Note: Plated through holes for .063 board thickness



Note: Panel thickness .079 [2.00] Max.

TS-0621-10 Sheet 3 of 3

Important Notice

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Electronic Solutions Division

6801 River Place Blvd. Austin, TX 78726-9000 www.3M.com/esd

