

# Datasheet

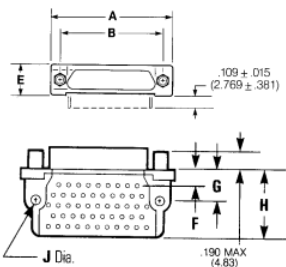
## 2.54mm Pitch 15 Way Right Angle Through Hole Mount Micro-D PCB Connector, Socket

RS Stock 312-2765



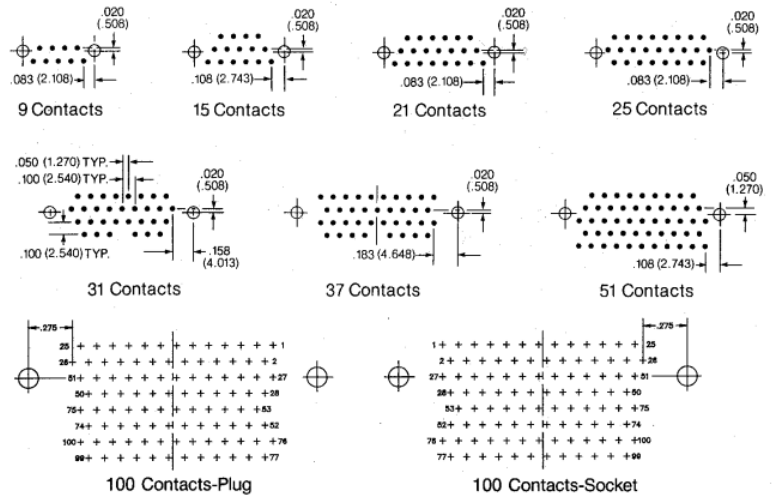
### Dimensions: (mm)

#### 90° Narrow Termination



#### Recommended Board Layout

(As Viewed from Bottom of Terminal Block)



NOTE: For connector interface dimensions, see page 10.

Typ. Hole Dia. = 1.02 mm



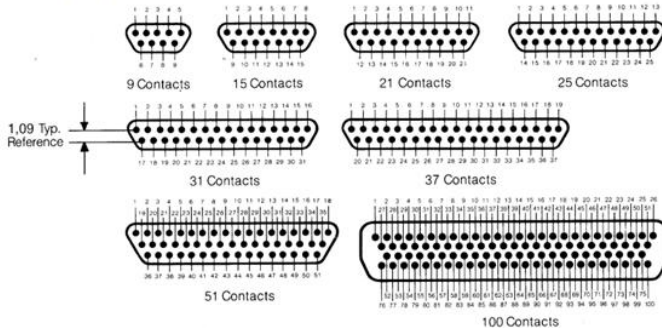
# Specifications

| No. of<br>Contacts | A<br>Max. |       | B<br>± .005 (0.13) |       | C<br>Max. |       |
|--------------------|-----------|-------|--------------------|-------|-----------|-------|
|                    | in        | mm    | in                 | mm    | in        | mm    |
| 9 Plug             | .785      | 19.94 | .565               | 14.35 | .308      | 7.82  |
| 9 Socket           | .785      | 19.94 | .565               | 14.35 | .308      | 7.82  |
| 15 Plug            | .935      | 23.75 | .715               | 18.16 | .308      | 7.82  |
| 15 Socket          | .935      | 23.75 | .715               | 18.16 | .308      | 7.82  |
| 21 Plug            | 1.085     | 27.56 | .865               | 21.97 | .308      | 7.82  |
| 21 Socket          | 1.085     | 27.56 | .865               | 21.97 | .308      | 7.82  |
| 25 Plug            | 1.085     | 30.10 | .965               | 24.51 | .308      | 7.82  |
| 25 Socket          | 1.185     | 30.10 | .965               | 24.51 | .308      | 7.82  |
| 31 Plug            | 1.335     | 33.91 | 1.115              | 28.32 | .308      | 7.82  |
| 31 Socket          | 1.335     | 33.91 | 1.115              | 28.32 | .308      | 7.82  |
| 37 Plug            | 1.485     | 37.72 | 1.265              | 32.13 | .308      | 7.82  |
| 37 Socket          | 1.485     | 37.72 | 1.265              | 32.13 | .308      | 7.82  |
| 51 Plug            | 1.435     | 36.45 | 1.215              | 30.86 | .351      | 8.92  |
| 51 Socket          | 1.435     | 36.45 | 1.215              | 30.86 | .351      | 8.92  |
| 100 Plug           | 2.175     | 55.25 | 1.800              | 45.72 | .394      | 10.00 |
| 100 Socket         | 2.175     | 55.25 | 1.800              | 45.72 | .394      | 10.00 |

| No. of<br>Contacts | F<br>± .010 (0.25) |      | G<br>± .010 (0.25) |       | H<br>Max. |       | J<br>± .005 (0.13) |      |
|--------------------|--------------------|------|--------------------|-------|-----------|-------|--------------------|------|
|                    | in                 | mm   | in                 | mm    | in        | mm    | in                 | mm   |
| 9 Plug             | .230               | 5.84 | .250               | 6.35  | .420      | 10.67 | .096               | 2.44 |
| 9 Socket           | .230               | 5.84 | .250               | 6.35  | .420      | 10.67 | .096               | 2.44 |
| 15 Plug            | .130               | 3.30 | .250               | 6.35  | .420      | 10.67 | .096               | 2.44 |
| 15 Socket          | .130               | 3.30 | .250               | 6.35  | .420      | 10.67 | .096               | 2.44 |
| 21 Plug            | .130               | 3.30 | .250               | 6.35  | .420      | 10.67 | .096               | 2.44 |
| 21 Socket          | .130               | 3.30 | .250               | 6.35  | .420      | 10.67 | .096               | 2.44 |
| 25 Plug            | .130               | 3.30 | .250               | 6.35  | .420      | 10.67 | .096               | 2.44 |
| 25 Socket          | .130               | 3.30 | .250               | 6.35  | .420      | 10.67 | .096               | 2.44 |
| 31 Plug            | .130               | 3.30 | .250               | 6.35  | .520      | 13.21 | .996               | 2.44 |
| 31 Socket          | .130               | 3.30 | .250               | 6.35  | .520      | 13.21 | .096               | 2.44 |
| 37 Plug            | .130               | 3.30 | .250               | 6.35  | .520      | 13.21 | .096               | 2.44 |
| 37 Socket          | .130               | 3.30 | .250               | 6.35  | .520      | 13.21 | .096               | 2.44 |
| 51 Plug            | .150               | 3.81 | .300               | 7.62  | .650      | 16.51 | .096               | 2.44 |
| 51 Socket          | .150               | 3.81 | .300               | 7.62  | .650      | 16.51 | .096               | 2.44 |
| 100 Plug           | .200               | 5.08 | .400               | 10.16 | 1.000     | 25.40 | .125               | 3.18 |
| 100 Socket         | .200               | 5.08 | .400               | 10.16 | 1.000     | 25.40 | .125               | 3.18 |



**Contact Arrangements**  
(Face view of pin insert)  
(Use reverse order for socket side)



| No. of Contacts | Maximum Mating Force |       | Minimum Unmating Force |      |
|-----------------|----------------------|-------|------------------------|------|
|                 | Lb.                  | Kg    | Lb.                    | Kg   |
| 9               | 5.63                 | 2.56  | .28                    | .13  |
| 15              | 9.38                 | 4.26  | .47                    | .21  |
| 21              | 13.13                | 5.96  | .66                    | .30  |
| 25              | 15.63                | 7.10  | .78                    | .35  |
| 31              | 19.38                | 8.80  | .97                    | .44  |
| 37              | 23.13                | 10.50 | 1.16                   | .53  |
| 51              | 31.88                | 14.47 | 1.59                   | .72  |
| 100             | 62.50                | 28.38 | 3.13                   | 1.42 |

**Features**

- Plug & socket versions available in 9, 15, 21, 25, 31, 37, 51, and 100 positions.
- Flow-through design facilitates inspection and cleaning after soldering.
- All terminal block connectors use standard mounting hardware.
- Metal shell provides EMI/RFI shielding capability.
- Available in 3 styles: Straight mount, 90° right-angle mount, and 90° right-angle narrow profile mounting.
- Silicone elastomer interfacial seal protects contacts from moisture and isolates them from each other and from the metal shell.
- Meets requirements of MIL-PRF-83513-D.
- Choice of insulator materials.

**Insulator:** UL94V-0 glass-filled polyester or diallyl phthalate

**Contacts:** Pins - Copper alloy, Sockets - Copper alloy (machined)

**Contact Plating:** .000050 in gold

**Shell:** Aluminum alloy

**Shell Plating:** Yellow chromate over cadmium (std.) or electroless nickel

**Current Rating:** 3 Amps maximum

**Withstanding Voltage:** 600 VAC RMS @ sea level, 150 VAC @ 70,000 ft.

**Contact Resistance:** 8 milliohms maximum

**Insulation Resistance:** 1,000 megohms min between adjacent pins

**Individual Contact:** 170.40 g maximum insertion force;  
14.20 g minimum withdrawal force

**Mating / Unmating Forces:** See table