

Performance and Material Specifications

**MATERIALS AND FINISHES**

|                 |  |
|-----------------|--|
| Shell           | Steel, Tin Plated                        |
| Insulator       | Glass Filled Thermoplastic, UL 94V-0     |
| Pin Contacts    | Copper Alloy, Plated Gold over Nickel    |
| Socket Contacts | Phosphor Bronze, Plated Gold over Nickel |

**MECHANICAL FEATURES**

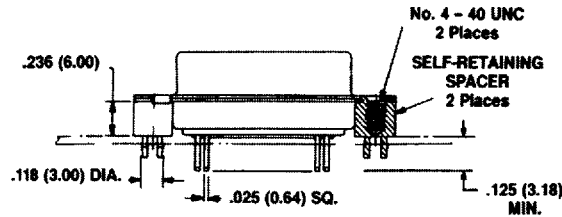
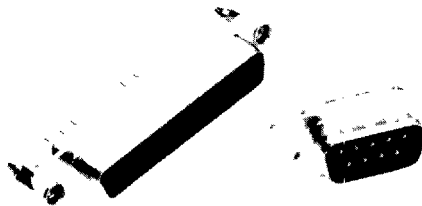
|              |                               |
|--------------|-------------------------------|
| Coupling     | Friction and lock accessories |
| Polarization | Keystone-shaped shells        |
| Termination  | Printed circuit               |

**PERFORMANCE SPECIFICATIONS**

|                                 |                         |
|---------------------------------|-------------------------|
| Temperature Range               | -55°C to 105°C          |
| Current Rating                  | 5 Amps                  |
| Dielectric Withstanding Voltage | 1000V AC (for 1 min.)   |
| Insulation Resistance           | 15 mΩ min. (at 500V DC) |
| Contact Resistance              | 15 mΩ max. (mated)      |

Dimensions/Part Numbers – Stamped Contacts

With or without integral board standoff  
PCB Thickness up to .092 (2.34)



NOTE: Section of side view and the engaging face view are designed to show configurations of both pin and socket

PCB Hole Patterns – Pages 14-15

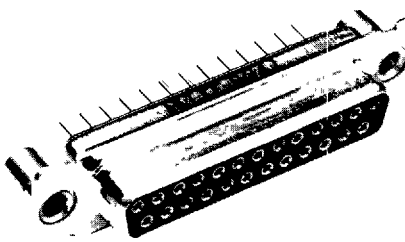
| Number of Contacts (Shell Size) |      | Part Number   |                  |
|---------------------------------|------|---------------|------------------|
|                                 |      | With Standoff | Without Standoff |
| 9 (E)                           | Plug | ADEZ9POL2     | ADE9POL2         |
|                                 | Rec. | ADEZ9SOL2     | ADE9SOL2         |
| 15 (A)                          | Plug | ADAZ15POL2    | ADA15POL2        |
|                                 | Rec. | ADAZ15SOL2    | ADA15SOL2        |
| 25 (B)                          | Plug | ADBZ25POL2    | ADB25POL2        |
|                                 | Rec. | ADBZ25SOL2    | ADB25SOL2        |
| 37 (C)                          | Plug | ADCZ37POL2    | ADC37POL2        |
|                                 | Rec. | ADCZ37SOL2    | ADC37SOL2        |
| 50 (D)                          | Plug | ADDZ50POL2    | ADD50POL2        |
|                                 | Rec. | ADDZ50SOL2    | ADD50SOL2        |

Consult factory for High Density Straight PC

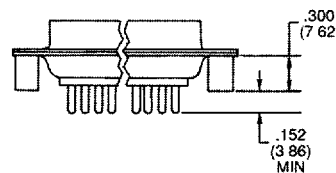
Dimensions/Part Numbers – Machined Contacts

Straight PC Tail, Receptacles (Includes Socket Contacts)  
With .120 (3.15) Through-Mounting Holes.

Compatible With Straight PCB Combo D®.  
PCB Thickness up to .125 (3.18)



Printed Circuit Applications



NOTE: All connectors come with .300 (7.62) standoffs attached

| Layout | Compliant Boardlock: |                      | 30μ in. Gold No | 30μ in. Gold Yes |
|--------|----------------------|----------------------|-----------------|------------------|
|        | Gold Over Nickel No  | Gold Over Nickel Yes |                 |                  |
| DE-9S  | DEM9SNA197           | DEM29SNA197          | DEM9SNK126      | DEM29SNK126      |
| DE-9P  | DEM9PNK87            | DEM29PNK87           | DEM9PNK127      | DEM29PNK127      |
| DA-15S | DAMV15SNA197         | DAMZ15SNA197         | DAMV15SNK126    | DAMZ15SNK126     |
| DA-15P | DAMV15PNK87          | DAMZ15PNK87          | DAMV15PNK127    | DAMZ15PNK127     |
| DB-25S | DBMV25SNA197         | DBMZ25SNA197         | DBMV25SNK126    | DBMZ25SNK126     |
| DB-25P | DBMV25PNK87          | DBMZ25PNK87          | DBMV25PNK127    | DBMZ25PNK127     |
| DC-37S | DCMV37SNA197         | DCMZ37SNA197         | DCMV37SNK126    | DCMZ37SNK126     |
| DC-37P | DCMV37PNK87          | DCMZ37PNK87          | DCMV37PNK127    | DCMZ37PNK127     |
| DD-50S | DDMV50SNA197         | DDMZ50SNA197         | DDMV50SNK126    | DDMZ50SNK126     |
| DD-50P | DDMV50PNK87          | DDMZ50PNK87          | DDMV50PNK127    | DDMZ50PNK127     |

Performance Specifications – Page 11

For Tin Plated Contacts, Add – A220

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Highlighted part numbers indicate standard product; usually available with shorter lead times

Board Mounted D

## Machined Contacts

### Performance and Material Specifications

#### PERFORMANCE SPECIFICATIONS

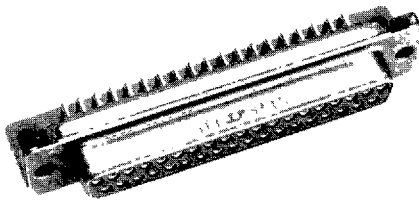
|  |   |
|--|---|
| Wire Accommodation (AWG)                               | Solder - #20 Max.<br>Crimp - #18-#28 Max. |
| Current Rating   | #20; 5 Amp                                |
| Temperature Rating                                     | -55°C to +150°C                           |
| Contact Resistance<br>After Salt Spray, Millivolt Max. | 55 @ 7.5 Amp<br>test current              |

#### MATERIALS AND FINISHES

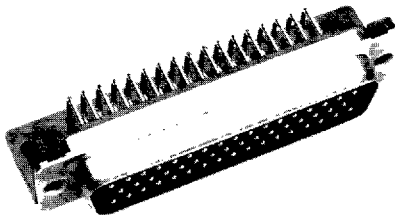
| Description | Material  | Finish           |
|-------------|---|------------------|
| Shell       | Steel per ASTM A-620  | Tin              |
| Insulator   | Diallyl phthalate glass-filled per MIL-M-14,<br>type SDG-F, color green, or thermoplastic | —                |
| Contact     | Copper alloy  | Gold over nickel |

## High-Rel Printed Circuit Mount Connectors (PCB Thickness Up to .125")

Right Angle PC Tail Receptacles, With Bracket  
(.120 [3.15] Through-Holes Only)



Right Angle PC Tail Plug, With Bracket  
(.120 [3.15] Through-Holes Only)

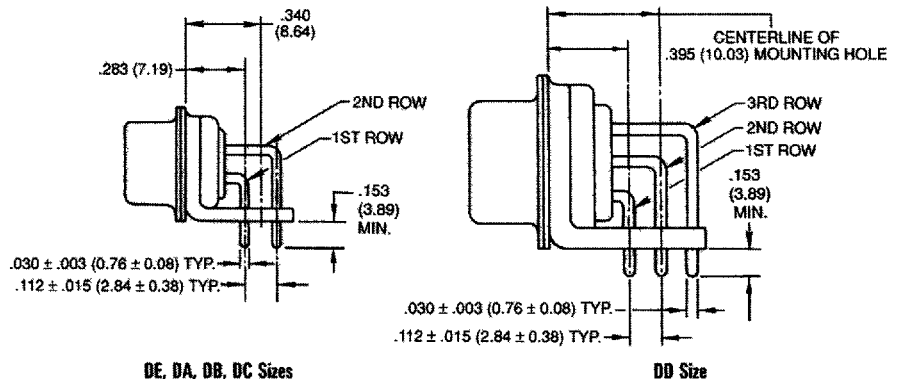


|        | Gold Over Nickel | 30μ in. Gold |
|--------|------------------|--------------|
| DE-9S  | DEM9STA197       | DEM9STK126   |
| DE-9P  | DEM9PTK87        | DEM9PTK127   |
| DA-15S | DAM15STA197      | DAM15STK126  |
| DA-15P | DAM15PTK87       | DAM15PTK127  |
| DB-25S | DBM25STA197      | DBM25STK126  |
| DB-25P | DBM25PTK87       | DBM25PTK127  |
| DC-37S | DCM37STA197      | DCM37STK126  |
| DC-37P | DCM37PTK87       | DCM37PTK127  |
| DD-50S | DDM50STA197      | DDM50STK126  |
| DD-50P | DDM50PTK87       | DDM50PTK127  |

Tin Plated PC Tails, Add - A220

## Dimensions - Right Angle 90° D Subminiature

Connectors with brackets cannot be ordered with float mounts or clinch nuts.

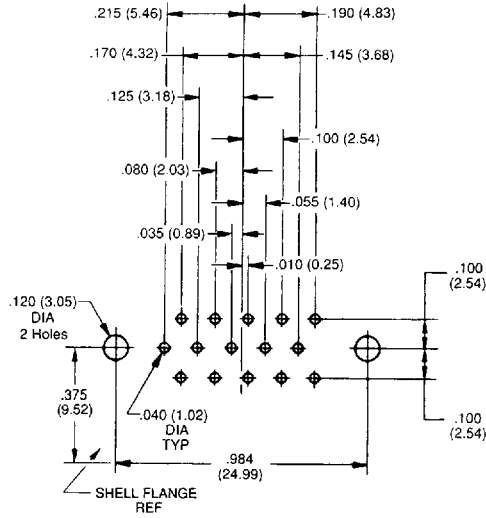


PCB Hole Patterns - Pages 14-15

# Right Angle and Straight D

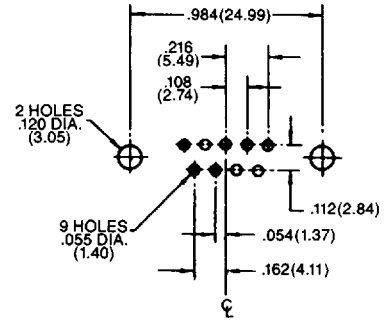
## PC Board Mounting Specifications

### Shell Size E



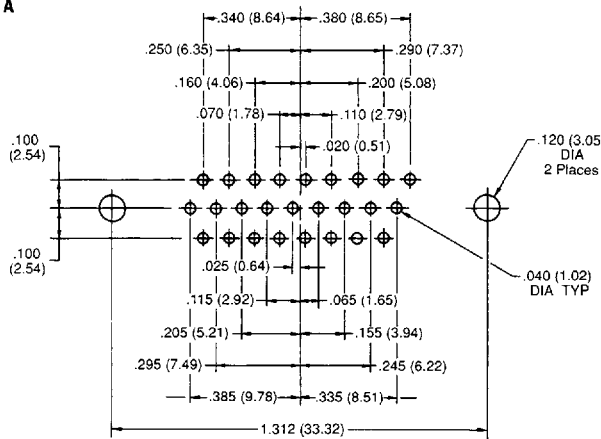
**15 Positions  
High Density**

**Note: Hole patterns shown are for plug connector assembly only. For receptacle connector assembly, hole pattern is a mirror image.**

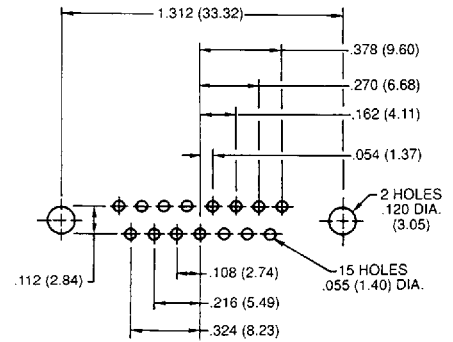


**9 Positions  
Standard**

### Shell Size A

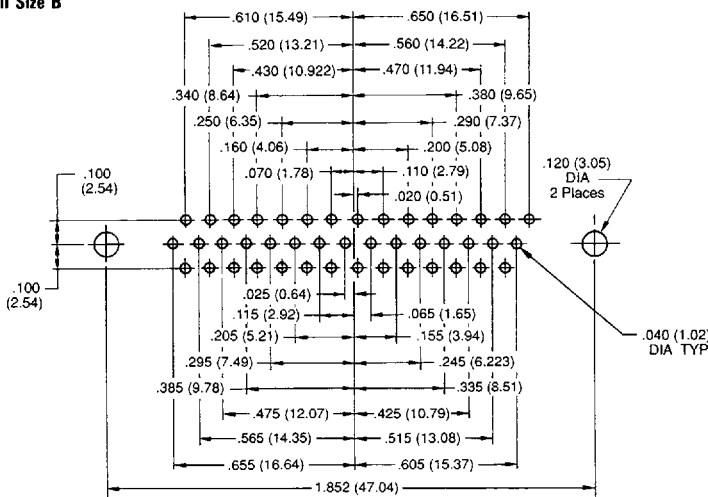


**26 Positions  
High Density**

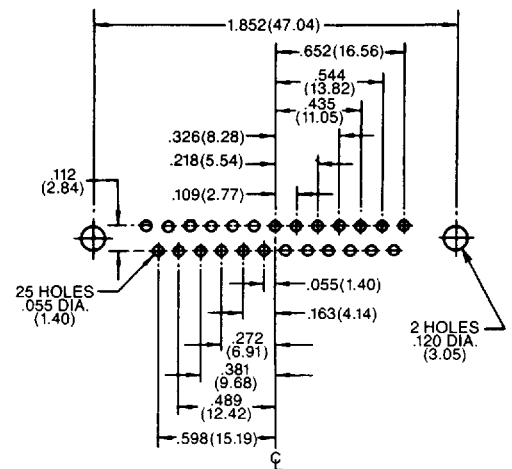


**15 Positions  
Standard**

### Shell Size B



**44 Positions  
High Density**



**25 Positions  
Standard**

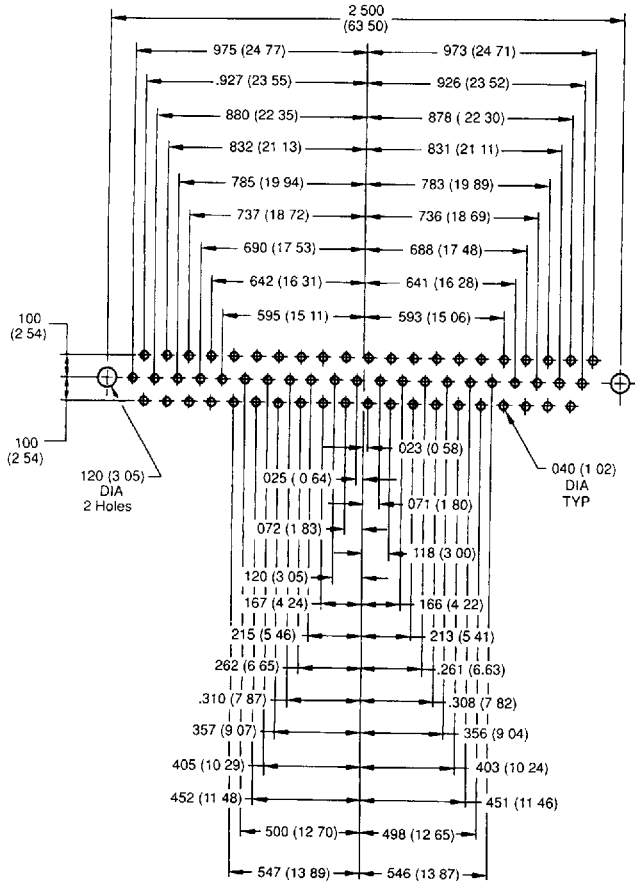
Board Mounted D

# Right Angle and Straight D

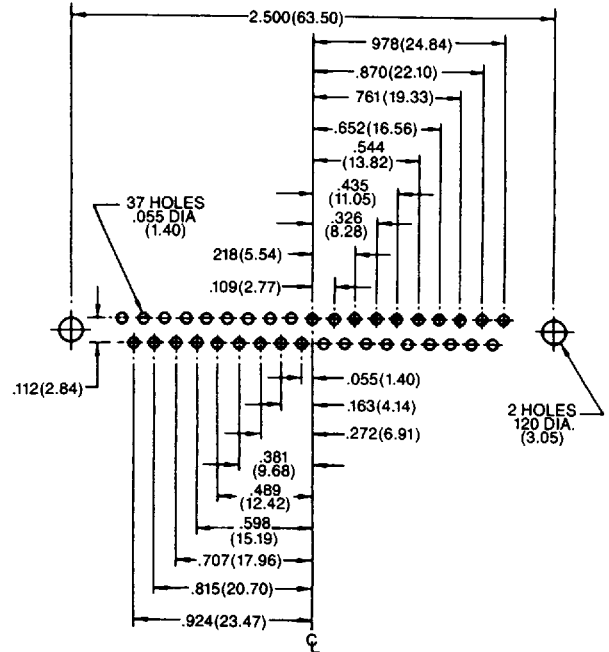
## PC Board Mounting Specifications

Shell Size C

Note: Hole patterns shown are for plug connector assembly only. For receptacle connector assembly, hole pattern is a mirror image.



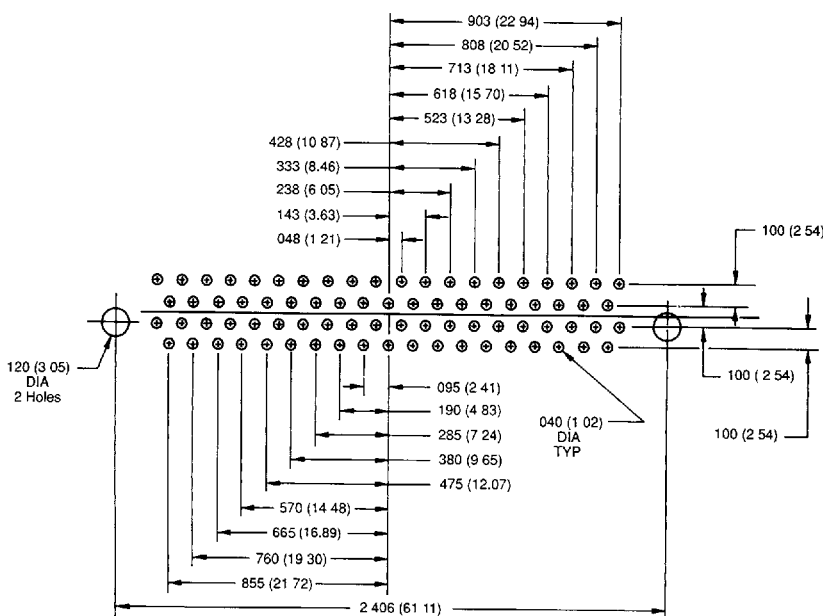
**62 Positions  
High Density**



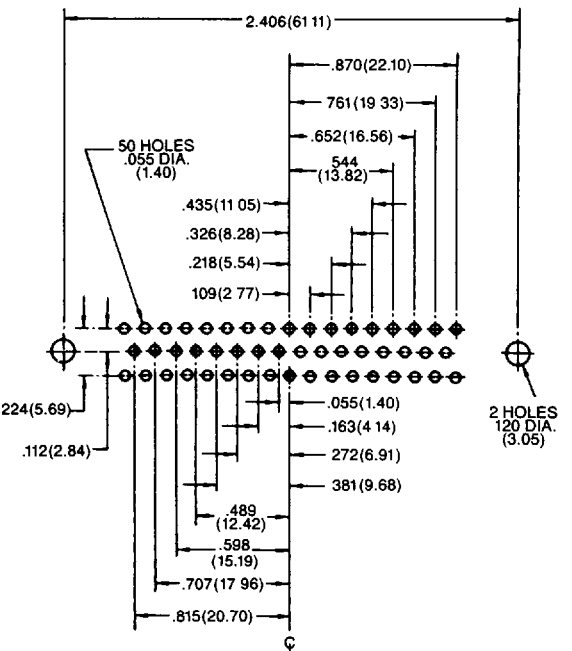
**37 Positions  
Standard**

Board Mounted D

Shell Size D



**78 Positions  
High Density**



**50 Positions  
Standard**

**ITT Cannon**

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Dimensions are shown in inches (millimeters).  
Dimensions subject to change.