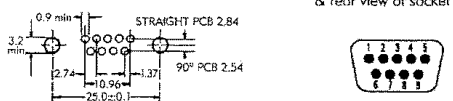


# 'D' SUBMINIATURE TECHNICAL SPECIFICATION

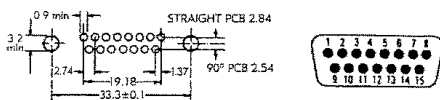
## PRINTED CIRCUIT BOARD HOLE PATTERNS

### DIMENSIONAL INFORMATION

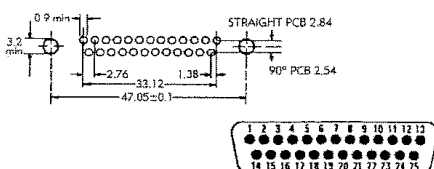
#### 9 WAY



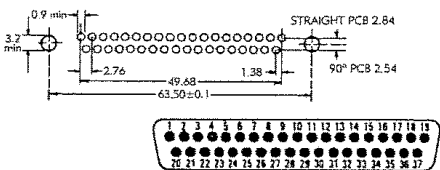
#### 15 WAY



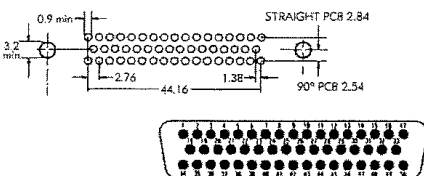
#### 25 WAY



#### 37 WAY

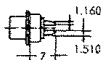


#### 50 WAY



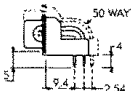
### TERMINATION STYLES, OUTLINE DIMENSIONS AND MOUNTING DETAILS

#### Type Z



Solder bucket for conventional wiring.  
Maximum wire size: 20 AWG.

#### Type R



#### Type Y



Straight pins for flow soldering  
onto a printed circuit board.

90° right angled pins for flow  
soldering onto a printed circuit  
board.

### Standard options available:

- Economy 'D' fitted with stamped, gold plated contacts.
- Standard 'D' fitted with turned copper alloy contacts, gold plated over nickel.
- Five basic shell sizes containing 9, 15, 25, 37, and 50 contacts.
- Provision for solder bucket, straight P.C.B., and 90° P.C.B. terminations.
- Intermateable with MIL-C-24308.
- Two part thermoplastic insulators, flame retardant to UL94VO.
- Standard shell finish, yellow passivation over zinc plate.
- Dimpled plug connector shells available to ensure good E.M.I. shielding.
- Tin plated shells available, usually specified in conjunction with dimpled plug shells to enhance continuity.
- Ideal for use in business machines, computers, telecommunications and general instrumentation.

### General Electrical and Mechanical Specification

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| Current Rating:        | 5A per contact with 20 A.W.G. cable                                |
| Working Voltage:       | 500V AC or DC peak                                                 |
| Contact Resistance:    | Initial: <5 Milliohms                                              |
| Insulation Resistance: | >10 Megohm.                                                        |
| Temperature Range:     | -55°C to 125°C                                                     |
| Polarisation:          | By trapezoidal shell                                               |
| Coupling:              | By friction<br>Supplementary locking accessories<br>also available |

### Mating Cycles:

500

### Materials and Finishes

#### Shell:

Steel bright electro tin plated,

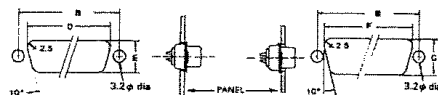
#### Insulators:

Two part thermoplastic mouldings,  
flame retardant to UL94VO

#### Contacts:

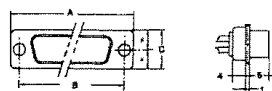
Copper alloy, gold plated over nickel.

### DIMENSIONS - PANEL CUT OUT



| SHELL SIZE | A-0.2 | B±0.1 | C-0.2 | D±0.2 | E±0.2 | F±0.2 | G±0.2 |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 9 WAY      | 30.8  | 25.0  | 12.4  | 22.4  | 13.0  | 20.5  | 11.4  |
| 15 WAY     | 39.2  | 33.3  | 12.4  | 30.5  | 13.0  | 28.8  | 11.4  |
| 25 WAY     | 53.1  | 47.0  | 12.4  | 44.3  | 13.0  | 42.5  | 11.4  |
| 37 WAY     | 69.5  | 63.5  | 12.4  | 60.7  | 13.0  | 59.1  | 11.4  |
| 50 WAY     | 67    | 61.1  | 15.4  | 58.3  | 15.8  | 56.3  | 14.1  |

### SHELL DIMENSIONS



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# Mouser Electronics

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