



## K42 Series Dual-Port D-Sub

### Ordering Information

|        |   |            |                    |                      |   |                         |   |                           |                  |                 |  |
|--------|---|------------|--------------------|----------------------|---|-------------------------|---|---------------------------|------------------|-----------------|--|
| K42    | - | B          | 25                 | P                    | / | S                       | - | A                         | 4N               |                 |  |
| Series |   | Shell Size | Number of Contacts | Top Connector Gender |   | Bottom Connector Gender |   | Center to Center Distance | Mounting Options | Plating Options |  |

#### Series

K42 - Kycon Dual-Port D-Subminiature Connector

#### Shell Size

E - 9 Contacts

A - 15 Contacts

B - 25 Contacts

C - 37 Contacts

#### Number of Contacts Per Port

9, 15, 25, 37

#### Top Connector Gender

P - Pin Contact (Plug)

S - Socket Contact (Receptacle)

#### Bottom Connector Gender

P - Pin Contact (Plug)

S - Socket Contact (Receptacle)

#### Center to Center Distance

A - .750"

B - .900"

C - .625"

#### Mounting Options (see page 37)

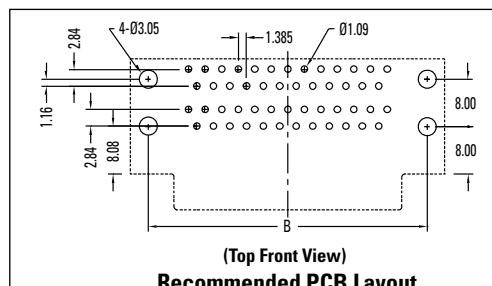
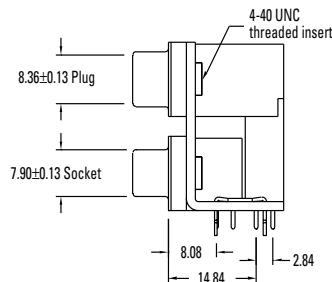
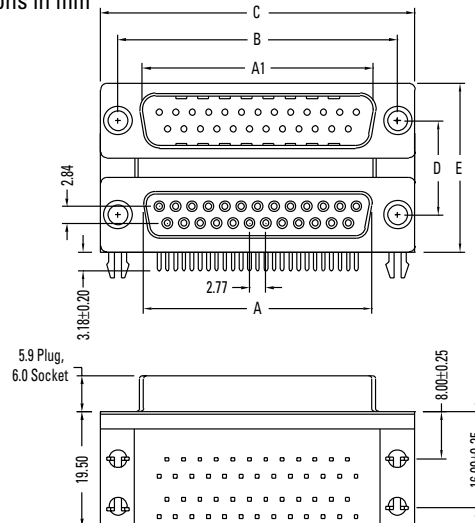
#### Plating Options and Performance Specifications (see page 4)

## MULTI-PORT D-SUBMINIATURE

### K42 Series

### K42 Series Dimensions

Dimensions in mm

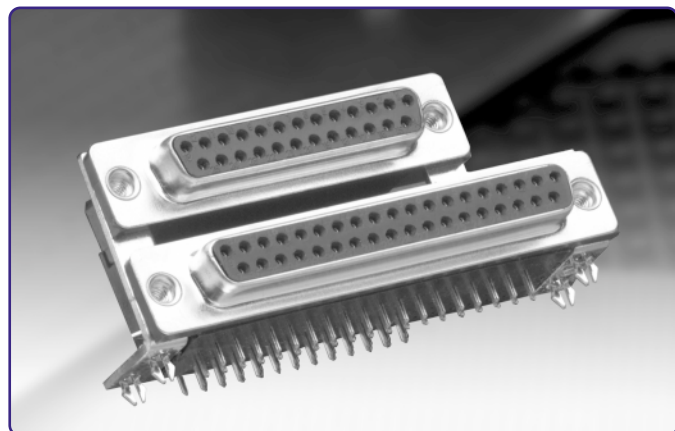


| Number of Contacts (Shell Size) | Dimensions (Inch/mm) |                |                |                |
|---------------------------------|----------------------|----------------|----------------|----------------|
|                                 | A                    | A1             | B              | C              |
| 9 (E)                           | .643<br>16.33        | .666<br>16.92  | .984<br>24.99  | 1.213<br>30.81 |
| 15 (A)                          | .971<br>24.66        | .994<br>25.25  | 1.312<br>33.32 | 1.541<br>39.14 |
| 25 (B)                          | 1.511<br>38.38       | 1.534<br>38.96 | 1.852<br>47.04 | 2.088<br>53.04 |
| 37 (C)                          | 2.159<br>54.84       | 2.181<br>55.42 | 2.500<br>63.50 | 2.729<br>69.32 |

| Center to Center Spacing | D             | E              |
|--------------------------|---------------|----------------|
| A                        | .750<br>19.05 | 1.244<br>31.60 |
| B                        | .900<br>22.86 | 1.394<br>35.41 |
| C                        | .625<br>15.88 | 1.119<br>28.42 |

A = Exterior of Female Shell (S)

A1 = Interior of Male Shell (P)



## K42 Series Combination Multiport D-Subminiature

### Ordering Information

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| K42-B25S/E9P-A4N   | 25 Pin Female over 9 Pin Male, .750" Center to Center Spacing                 |
| K42-B25S/E9P-B4N   | 25 Pin Female over 9 Pin Male, .900" Center to Center Spacing                 |
| K42-B25S/E9P-C4N   | 25 Pin Female over 9 Pin Male, .625" Center to Center Spacing                 |
| K42-B25S/E15S-A4N  | 25 Pin Female over 15 Pin High Density Female, .750" Center to Center Spacing |
| K42-B25S/E15S-B4N  | 25 Pin Female over 15 Pin High Density Female, .900" Center to Center Spacing |
| K42-B25S/E15S-C4N  | 25 Pin Female over 15 Pin High Density Female, .625" Center to Center Spacing |
| K42-E9P/E15S-A4N   | 9 Pin Male over 15 Pin Female High Density                                    |
| K42-25/9-9-A4N     | 25 Pin Female over Two 9 Pin Males                                            |
| K42-25/9-15-A4N    | 25 Pin Female over 9 Pin Male and 15 Pin High Density Female                  |
| K42-25/15-9-A4N    | 25 Pin Female over 15 Pin High Density Female and 9 Pin Male                  |
| K42-B25SL/C37S-C4N | Offset 25 Pin Female over 37 Pin Female                                       |
| K42-E15S/S-A4N     | 15 Pin High Density Female over 15 Pin High Density Female                    |

### Plating Options

| Designator | Plating Description                                                                   |
|------------|---------------------------------------------------------------------------------------|
| Standard   | Gold flash over nickel on contacts. Tin/lead over nickel on soldertails.              |
| 15         | 15μ" gold over nickel on mating end of contacts. Tin/lead over nickel on soldertails. |
| 30         | 30μ" gold over nickel on mating end of contacts. Tin/lead over nickel on soldertails. |

### Performance Specifications (see page 4)

## MULTIPORT D-SUBMINIATURE

### K42 Series

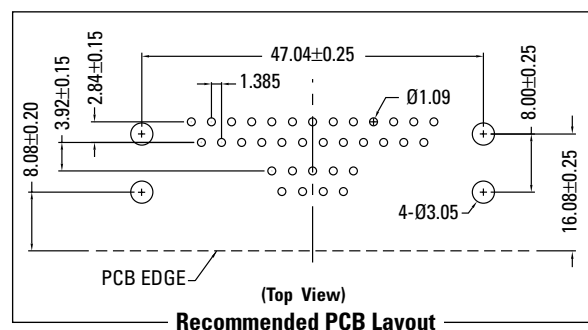
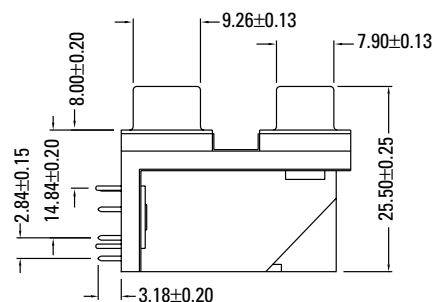
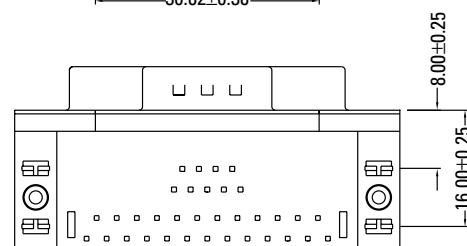
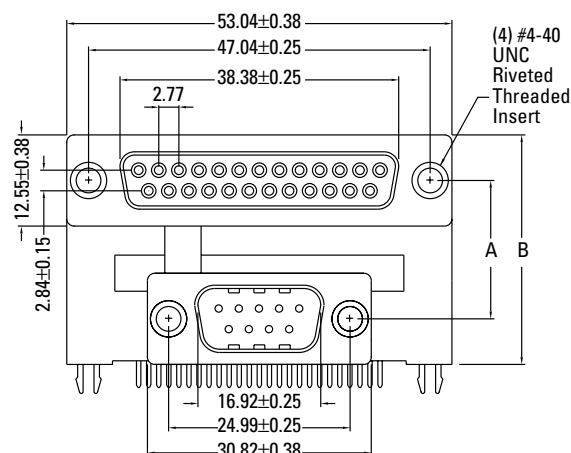
### K42 Series Dimensions

Dimensions in mm

K42-B25S/E9P-A4N

K42-B25S/E9P-B4N

K42-B25S/E9P-C4N



| Dimensions (Inch/mm)     |            |              |
|--------------------------|------------|--------------|
| Center to Center Spacing | A          | B            |
| A                        | .750/19.05 | 1.244/31.60  |
| B                        | .900/22.86 | 1.394/35.41  |
| C                        | .625/15.88 | 1.119/ 28.42 |

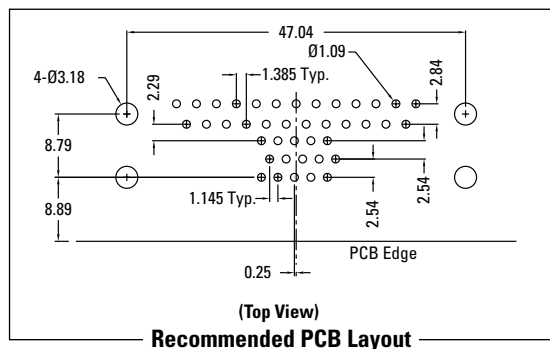
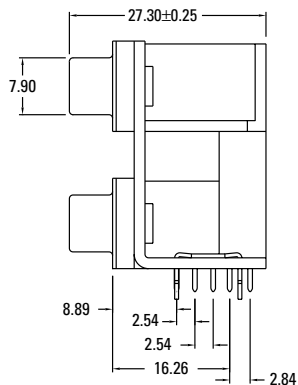
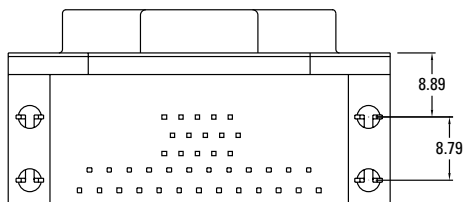
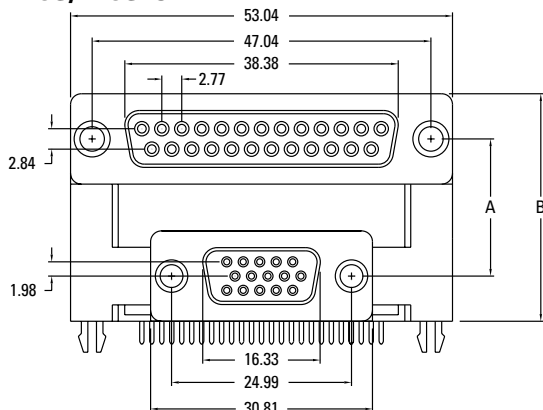
## K42 Series Dimensions

Dimensions in mm

**K42-B25S/E15S-A4N**

**K42-B25S/E15S-B4N**

**K42-B25S/E15S-C4N**



**Recommended PCB Layout**

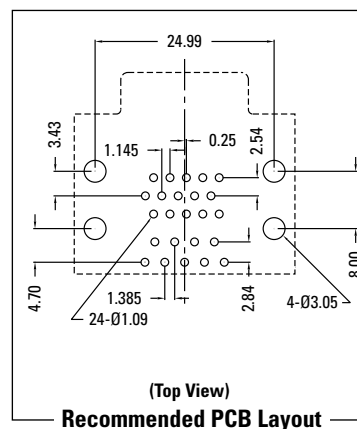
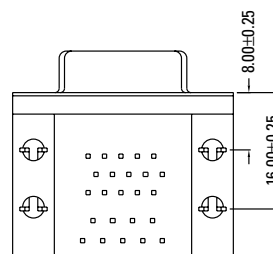
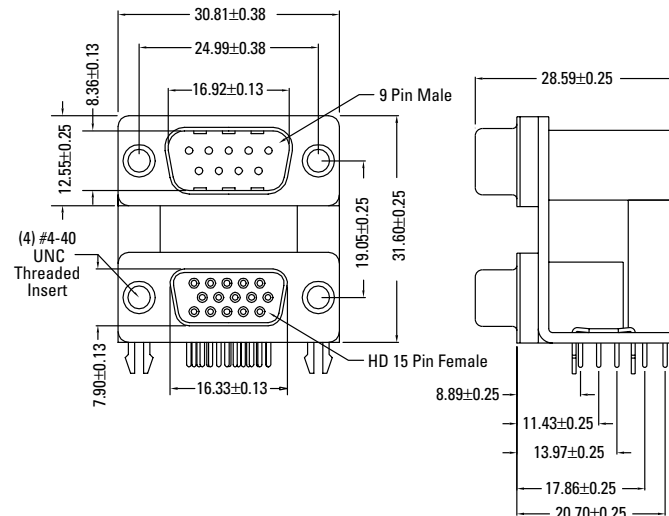
| Dimensions (Inch/mm)     |              |               |
|--------------------------|--------------|---------------|
| Center to Center Spacing | A            | B             |
| A                        | .750 / 19.05 | 1.244 / 31.60 |
| B                        | .900 / 22.86 | 1.394 / 35.41 |
| C                        | .625 / 15.88 | 1.119 / 28.42 |

## MULTIPORT D-SUBMINIATURE

### K42 Series

## K42-E9P/E15S-A4N

Dimensions in mm

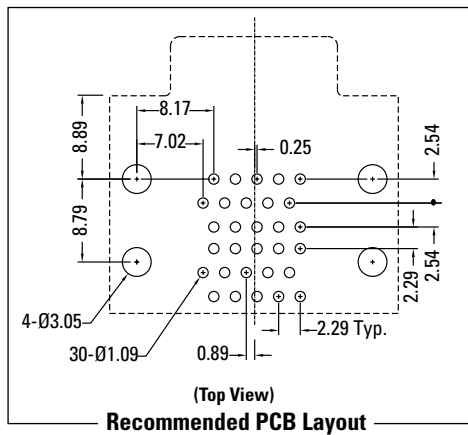
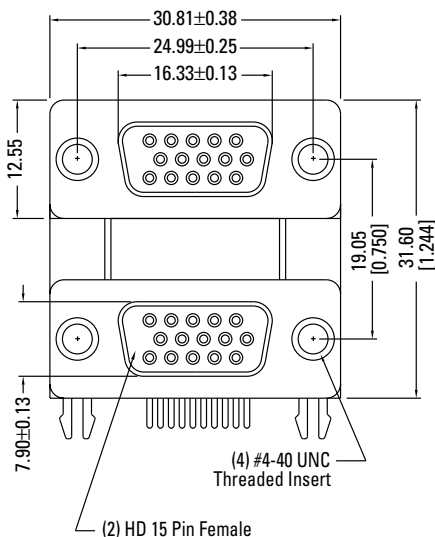


**(Top View)  
Recommended PCB Layout**

## K42 Series Dimensions

Dimensions in mm

### K42-E15S/S-A4N

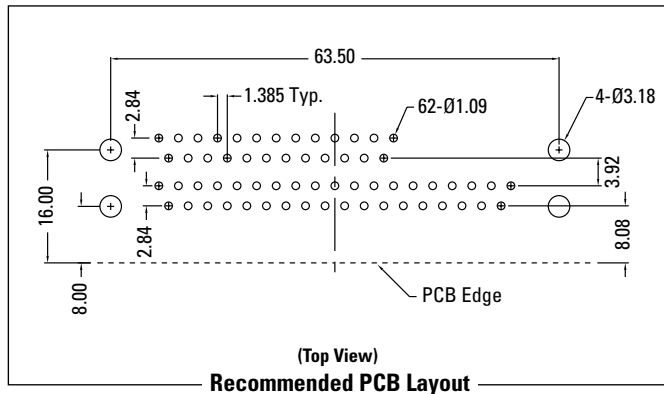
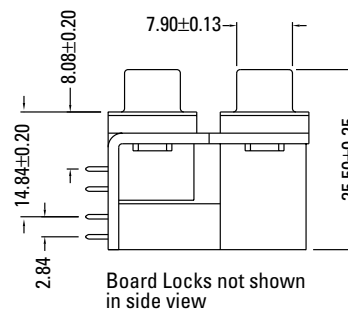
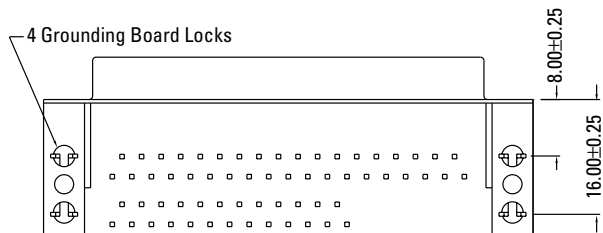
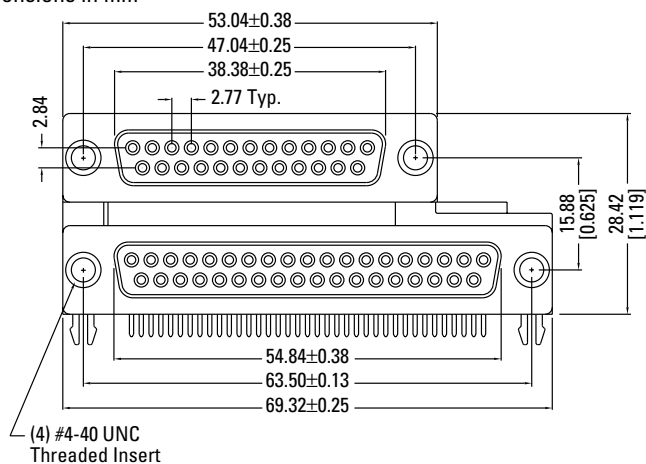


## MULTIPORT D-SUBMINIATURE

### K42 Series

### K42-B25SL/C37S-C4N

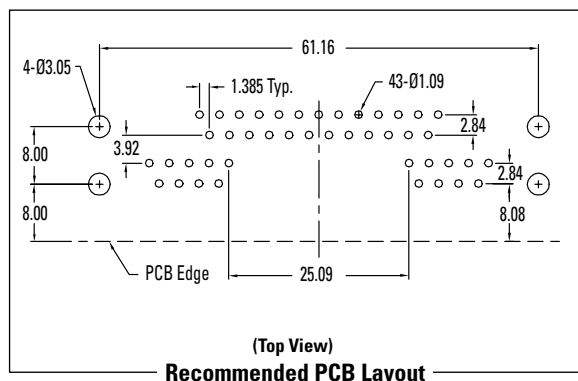
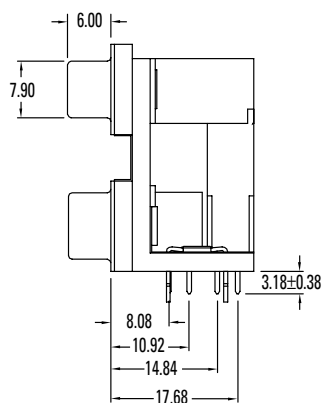
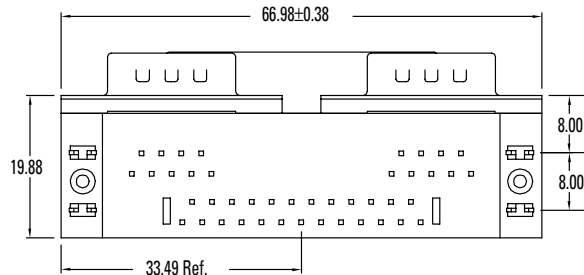
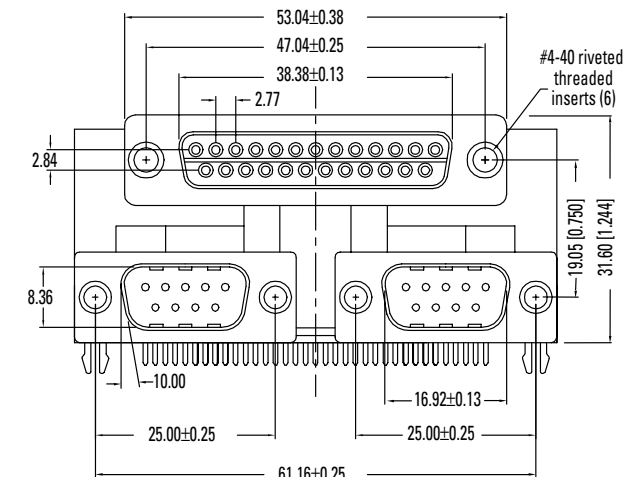
Dimensions in mm



## K42 Series Dimensions

### K42-25/9-9-A4N

Dimensions in mm



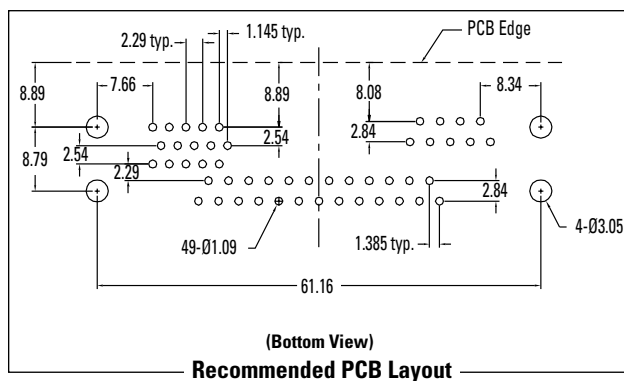
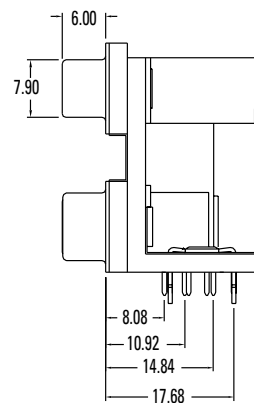
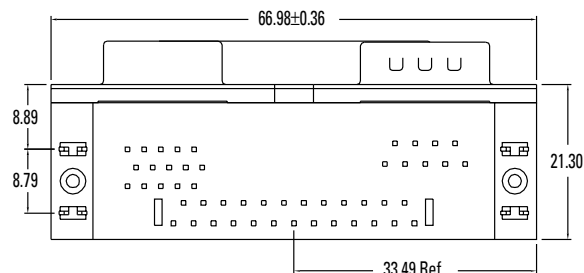
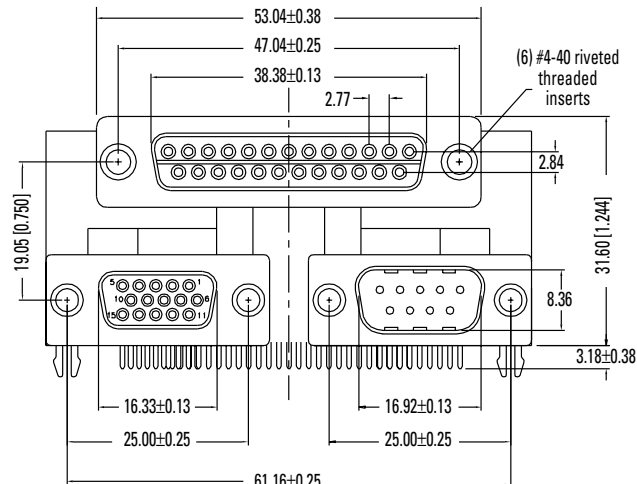
(Top View)  
Recommended PCB Layout

## MULTIPORT D-SUBMINIATURE

### K42 Series

### K42-25/15-9-A4N

Dimensions in mm

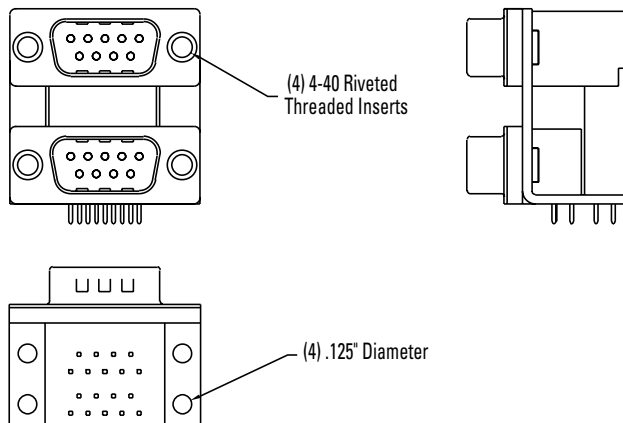


(Bottom View)  
Recommended PCB Layout

## Mounting Options K42, KF42

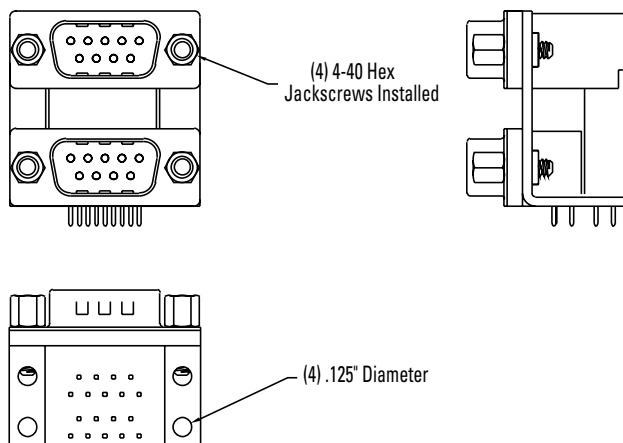
### Standard

With .125 Diameter Mounting Holes and 4-40 Riveted Threaded Inserts



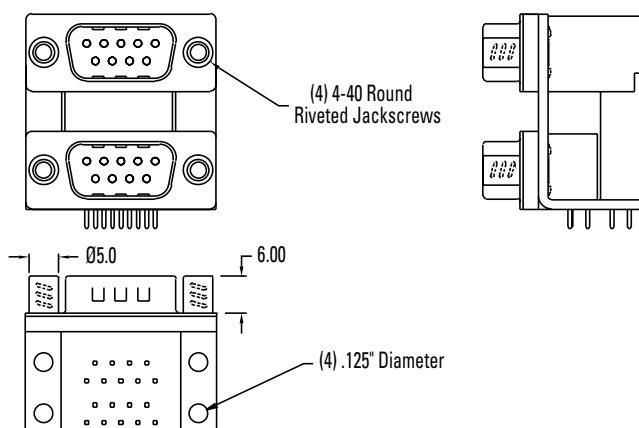
### J

With .125 Diameter Mounting Holes and 4-40 Hex Jack Screws Installed



### R

With .125 Diameter Mounting Holes and 4-40 Round Jack Screws Riveted to Connector

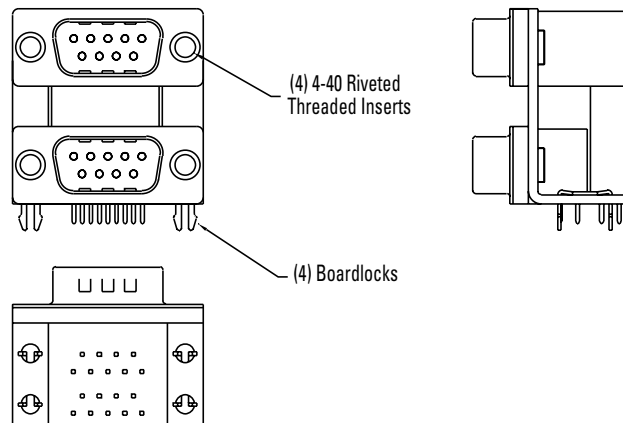


## MULTIPORT D-SUBMINIATURE

### Mounting Options

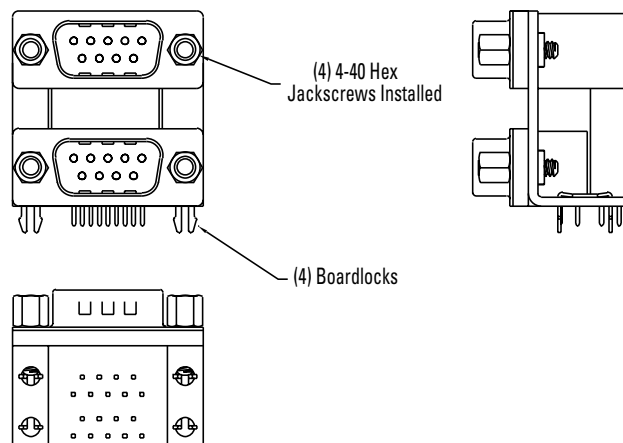
### 4N

With Four Board Locks and 4-40 Riveted Threaded Inserts



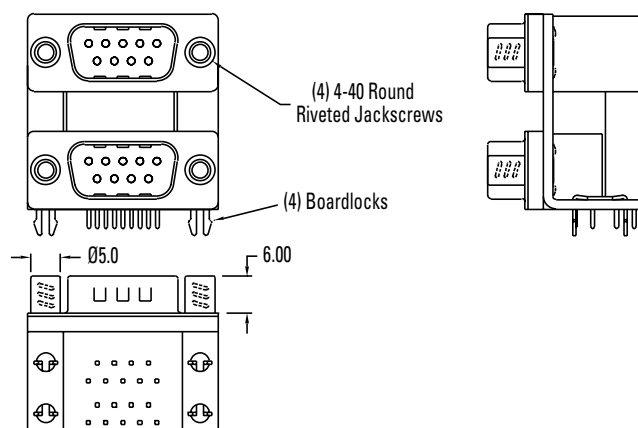
### 4NJ

With Four Board Locks and 4-40 Hex Jack Screws Installed



### 4NR

With Four Board Locks and 4-40 Round Jack Screws Riveted to Connector



***KYCON continues its leadership in D-Subminiature connectors by offering a complete line of sizes and options.***

**PC99 Colors Available:**

- HD15: Blue
- DB15: Gold
- DB25: Burgundy
- DB09: Teal



KYCON Tech Support: **1-888-KYCON-22**  
or E-mail: [sales@kycon.com](mailto:sales@kycon.com)

## D-SUBMINIATURE CONNECTORS

### *Performance Specifications*

#### *Materials and Finish*

**Shell**

Steel Material, Tin Finish, and Indentations (Dimples) on Plug Only

**Insert**

Standard: PBT Thermoplastic, Black Color, 30% Glass Filled, 94V-0 Rated  
Reflow Compatible: High Temperature Thermoplastic, Black Color,  
30% Glass Filled, 94V-0 Rated

**Contact Material**

Pin: Brass .040 (1.02) Diameter Standard; .030 (0.76) Diameter High Density  
Socket: Phosphor Bronze (Precision Formed Contact)  
Brass (Precision Machined Contact)

**Contact Finish-Standard**

Gold Flash Over 0.0001 (0.00254) Nickel on Mating End of Contacts  
Tin/Lead Over Nickel or Gold Flash Over Nickel on Solder Tails

**Riveted Insert**

Brass Material, Nickel Finish

#### *Mechanical Characteristics*

**Contact Retention**

Precision Machined Contact 10 Lbs, Precision Formed Contact 10 Lbs

**Contact Extraction Force**

Typ. 4 Oz.

**Contact Insertion Force**

Typ. 9 Oz.

**Durability**

1,000 Insertion Cycles Min (With Standard Plating)

**Operating Temperature Rating**

-55°C to +125°C

#### *Electrical Characteristics*

**Contact Current Rating**

Precision Machined Contact 7.6 Amps  
Precision Formed Contact 5.0 Amps (Except K99 Series)

**Contact Resistance**

Precision Machined Contact 5 Milliohms Max  
Precision Formed Contact 8 Milliohms Max

**Dielectric Withstanding Voltage**

1000 V AC Min for 1 Minute

**Insulation Resistance**

5000 Megohms Min

#### *Processing Characteristics*

**Soldering Temperature Rating**

High Temperature Plastic: 230°C for 30 Seconds, 260°C for 10 Seconds

#### *Plating Options*

| Designator | Plating Description                                                                                 |
|------------|-----------------------------------------------------------------------------------------------------|
| Standard   | Gold Flash over Nickel on Contacts. Gold Flash over Nickel or Tin/Lead over Nickel on Solder Tails. |
| 15         | 15µ" Gold over Nickel on Mating End of Contacts. Tin/Lead over Nickel on Solder Tails.              |
| 30         | 30µ" Gold over Nickel on Mating End of Contacts. Tin/Lead over Nickel on Solder Tails.              |

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[K42-E9P/P-AJ30](#) [K42-E9P/P-A4NJ15](#) [K42-E9P/S-A4NJ15](#) [K42-E9P/P-C4NR30](#) [K42-E9P/P-C4NR15](#) [K42-A15S/S-](#)  
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[A15S/P-A15](#) [K42-E9S/E15S-A4NJ](#) [K42-A15S/P-A30](#) [K42-E9P/S-CJ](#) [K42-E9P/S-A4N30](#) [K42-E9P/S-BJ](#) [K42-E9P/S-](#)  
[AJ](#) [K42-E9P/P-A4N30](#) [K42-C37P/S-AJ15](#) [K42-E9S/S-C4N](#) [K42-A15S/S-B4N](#) [K42-E9P/S-C4N](#) [K42-B25P/S-A4N](#)  
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[K42-C37S/P-AJ](#) [K42-E9P/S-A4NJ30](#) [K42-E9P/P-A4NJ15](#) [K42-A15P/P-AJ](#) [K42-E9P/P-A4NJ30](#) [K42-B25S/C37S-A](#)  
[K42-B25S/S-AJ](#) [K42-B25S/E9PA4NJ15](#) [K42-B44S/S-AJ](#) [K42-B25S/S-AR](#) [K42-B25S/E9PA4NJ30](#) [K42-B25S/S-BJ](#)  
[K42-A15P/S-AJ](#) [K42-C37S/S-AJ](#) [K42-C37S/P-A4NJ](#) [K42-B25P/S-BJ](#) [K42-A15P/S-A4N](#) [K42-B25P/S-AJ](#) [K42-](#)  
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[A15P/S-A4N30](#) [K42-A15P/P-A4N30](#) [K42-B25P/E9P-A4NJ30](#) [K42-B25S/P-AJ](#) [K42-B25S/P-AR](#) [K42-E9S/P-A4NJ15](#)  
[K42-E9S/S-A4NJ15](#) [K42-E9S/P-A4NJ30](#) [K42-E9S/S-A4NJ30](#) [K42-E9P/E15S-B4NJ](#) [K42-B44S/S-C4N](#) [K42-E9P/P-](#)  
[A30](#) [K42-E9P/P-A15](#) [K42-E9S/P-A30](#) [K42-E9S/P-A15](#) [K42-B25SE15SAJ15](#) [K42-B25SE15SAJ30](#) [K42-E9S/S-A15](#)  
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[E15S/S-A](#)