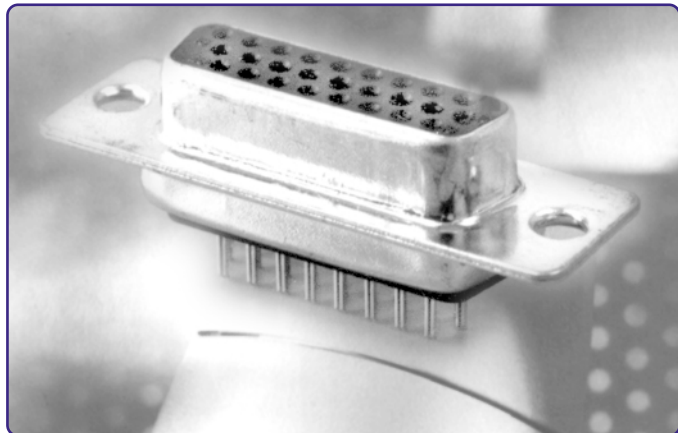




## K86 Series High Density Vertical PCB Mount and Soldercup

### Ordering Information

|        |   |            |                      |   |                    |              |   |                  |   |                 |
|--------|---|------------|----------------------|---|--------------------|--------------|---|------------------|---|-----------------|
| K86    | - | E          | D                    | - | 15                 | S            | - | K                | - |                 |
| Series |   | Shell Size | Contact Construction |   | Number of Contacts | Contact Type |   | Mounting Options |   | Plating Options |

#### Series

K86-Kycon High Density D-Subminiature Connector, Solder Cup or Vertical PCB Termination

#### Shell Size

E-15 Contacts  
A-26 Contacts  
B-44 Contacts  
C-62 Contacts

#### Contact Construction

| Designator | Contact Construction | Type of Termination      |
|------------|----------------------|--------------------------|
| A          | Precision Formed     | Solder Cup               |
| D          | Precision Formed     | Vertical Pin (PCB Mount) |

#### Number of Contacts

15, 26, 44, 62

#### Contact Type

P-Pin Contact (Plug)  
S-Socket Contact (Receptacle)

#### Mounting Options

K-with Riveted Threaded (4-40) Bushings  
KJ-with Riveted Threaded (4-40) Bushings and (4-40) Hex Jack Screws Installed  
BR-with (4-40) Riveted Threaded Tin Plated Board Lock  
BRJ-with (4-40) Riveted Threaded Tin Plated Board Lock and (4-40) Hex Jack Screws Installed  
R-with Round Riveted Jack Screws

Hex Jack Screws JS-1055 Recommended for BR Option.  
(See page 38 for Dimensions.)

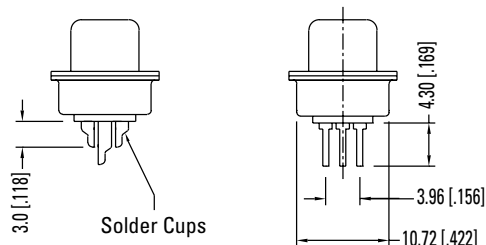
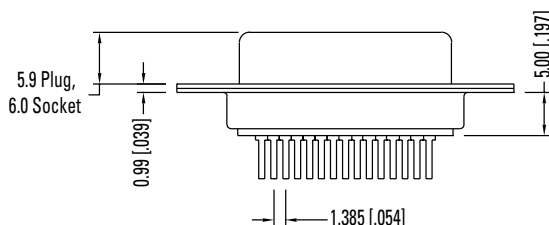
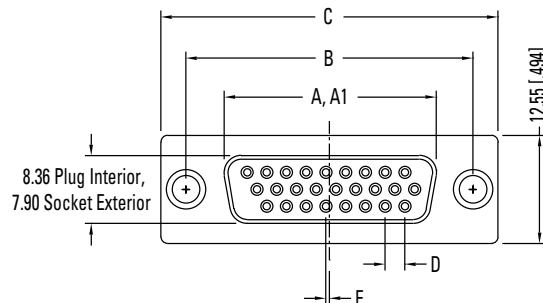
**Plating Options and Performance Specifications** (see page 4)

## D-SUBMINIATURE CONNECTORS

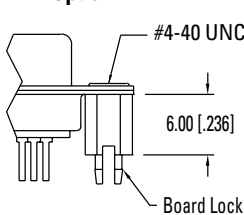
### K86 Series

### K86 Series Dimensions

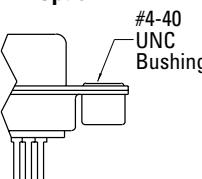
Dimensions in mm [In]



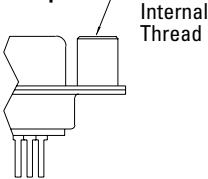
#### -BR Option



#### -K Option



#### -R Option



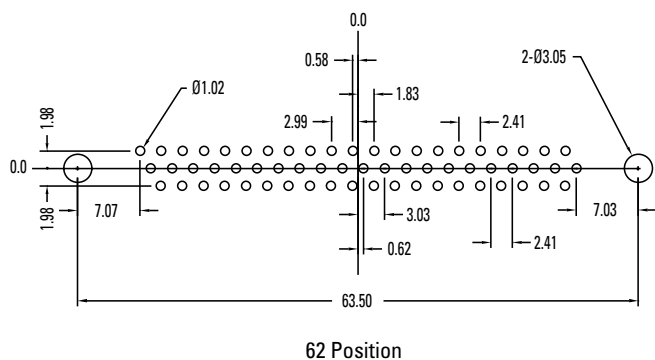
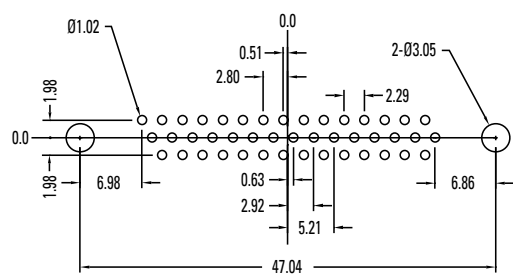
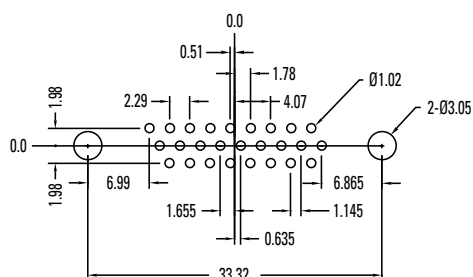
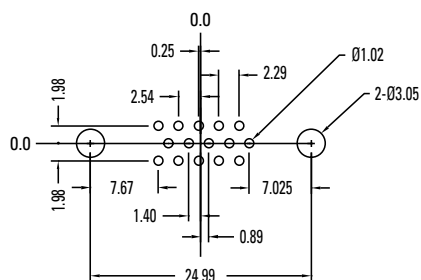
| Number of Contacts<br>(Shell Size) | Dimensions (Inch/mm) |                |                |                |              |              |
|------------------------------------|----------------------|----------------|----------------|----------------|--------------|--------------|
|                                    | A                    | A1             | B              | C              | D            | E            |
| 15 (E)                             | .643<br>16.33        | .666<br>16.92  | .984<br>24.99  | 1.213<br>30.81 | .090<br>2.29 | .010<br>0.25 |
| 26 (A)                             | .971<br>24.66        | .994<br>25.25  | 1.312<br>33.32 | 1.541<br>39.14 | .090<br>2.29 | .020<br>0.51 |
| 44 (B)                             | 1.511<br>38.38       | 1.534<br>38.96 | 1.852<br>47.04 | 2.088<br>53.04 | .090<br>2.29 | .020<br>0.51 |
| 62 (C)                             | 2.159<br>54.84       | 2.182<br>55.42 | 2.500<br>63.50 | 2.729<br>69.32 | .094<br>2.41 | .023<br>0.58 |

A = Exterior of Female Shell (S)

A1 = Interior of Male Shell (P)

## K86 Series Dimensions

Dimensions in mm

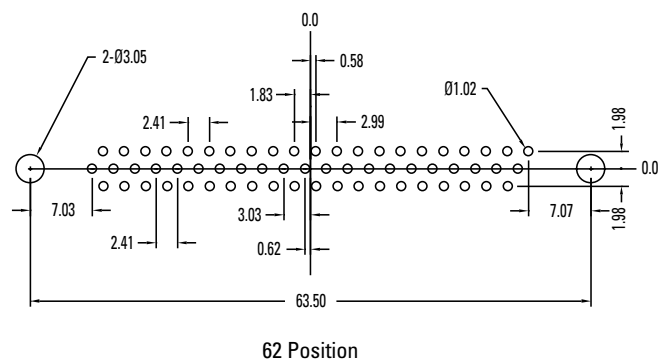
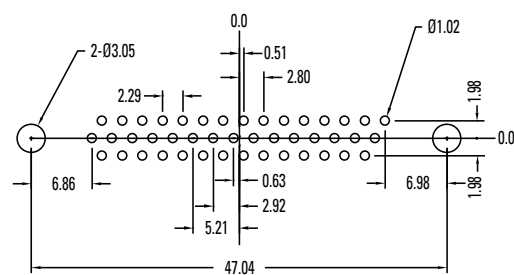
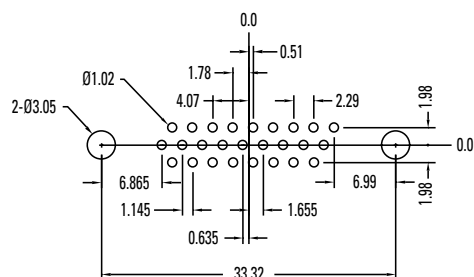
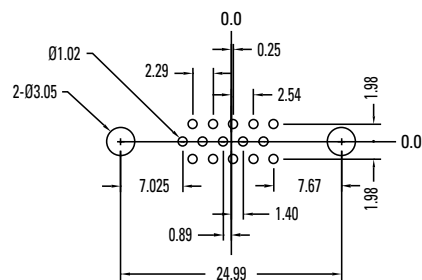


(Socket Top View)

Recommended PCB Layouts

## D-SUBMINIATURE CONNECTORS

### K86 Series



(Plug Top View)

Recommended PCB Layouts

***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



## 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

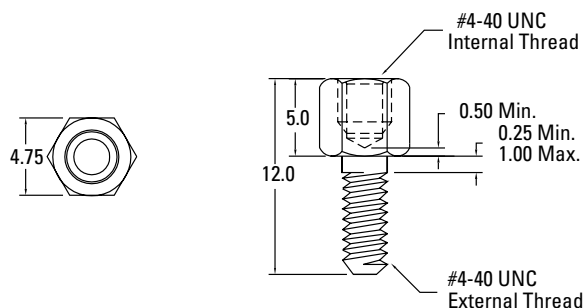
| Designator | Plating Description                                                                                 |
|------------|-----------------------------------------------------------------------------------------------------|
| Standard   | Gold Flash over Nickel on Contacts. Gold Flash over 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.              |

## D-Subminiature Hardware

Dimensions in mm

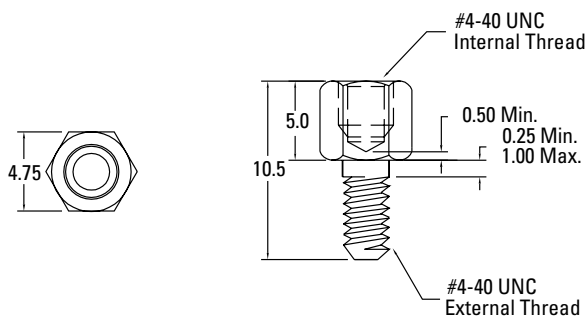
### JS-1000

4-40 Female Hex. Jack Screw Bulk (500/Bag)



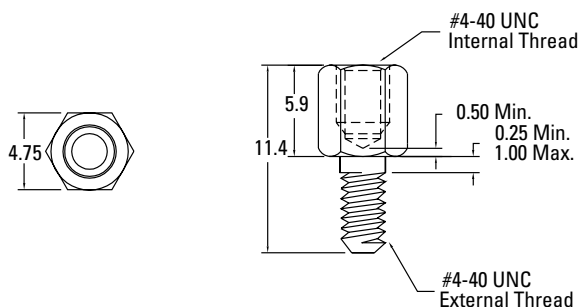
### JS-1055

4-40 Female Hex. Jack Screw Bulk (500/Bag)



### JS-1055-5.9

4-40 Female Hex. Jack Screw Bulk (500/Bag)

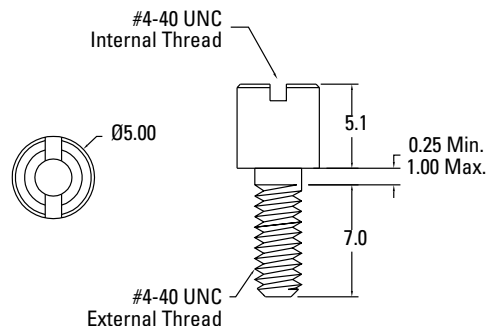


## D-SUBMINIATURE CONNECTORS

### Hardware

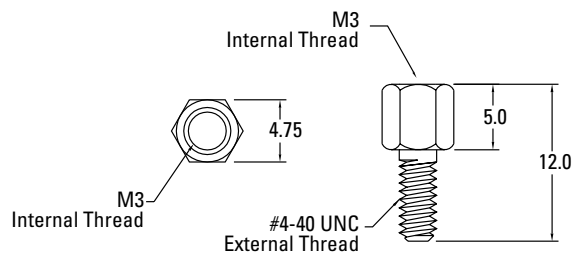
### JS-2000

4-40 Female Round Jack Screw Slotted Bulk (500/Bag)



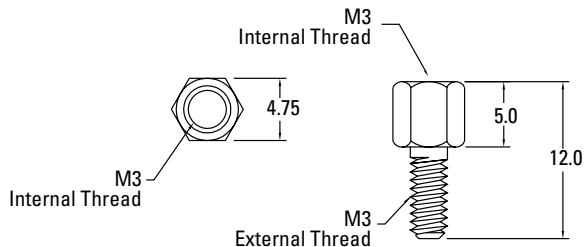
### JS-M3131

4-40 External,  
M3 Metric Internal Thread Jack Screw Bulk (500/Bag)



### JS-M3131M

M3 External,  
M3 Metric Internal Thread Jack Screw Bulk (500/Bag)



# Mouser Electronics

Authorized Distributor

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