



## K22 Series Right Angle PCB Mount .318" Footprint

### Ordering Information

| K22    | - | B          | 25                 | S            | - | N                |                 |
|--------|---|------------|--------------------|--------------|---|------------------|-----------------|
| Series |   | Shell Size | Number of Contacts | Contact Type |   | Mounting Options | Plating Options |

#### Series

K22 - Kycon D-Subminiature Connector, Right Angle, PCB Termination, .318 Footprint  
K22HT - Reflow Compatible Version

#### Shell Size

E - 9 Contacts  
A - 15 Contacts  
B - 25 Contacts  
C - 37 Contacts

#### Number of Contacts

9, 15, 25, 37

#### Contact Type

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

#### Mounting Options (See Page 35)

#### Plating Options

| Designator | Plating Description                                                                                |
|------------|----------------------------------------------------------------------------------------------------|
| Standard   | Gold flash over nickel on contacts. Gold flash over nickel or 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.              |

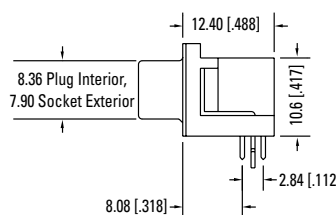
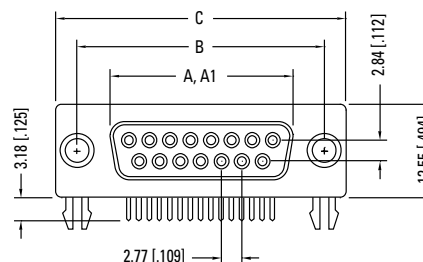
#### Performance Specifications (see page 4)

## D-SUBMINIATURE CONNECTORS

### K22 Series

### K22 Series Dimensions

Pictured with Board Lock Option, Dimensions in mm [In]



| Shell Size<br>In<br>mm | A<br>±.010<br>±0.25 | A1<br>±.010<br>±0.25 | B<br>±.005<br>±0.13 | C<br>±.015<br>±0.38 |
|------------------------|---------------------|----------------------|---------------------|---------------------|
| 9<br>(E)               | .643<br>16.33       | .666<br>16.92        | .984<br>24.99       | 1.213<br>30.81      |
| 15<br>(A)              | .971<br>24.66       | .994<br>25.25        | 1.312<br>33.32      | 1.541<br>39.14      |
| 25<br>(B)              | 1.511<br>38.38      | 1.534<br>38.96       | 1.852<br>47.04      | 2.088<br>53.04      |
| 37<br>(C)              | 2.159<br>54.84      | 2.182<br>55.42       | 2.500<br>63.50      | 2.729<br>69.32      |

A = Exterior of Female Shell (S)

A1 = Interior of Male Shell (P)

### Mounting Options

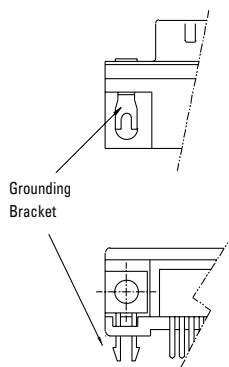
**K22, KF22,**

**K66, KF66**

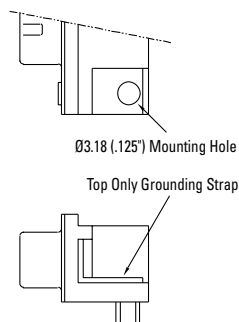
| Front Panel Mounting Options                                     | PCB Mounting Options  |                                                                           |                                                                                              |                     |
|------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------|
|                                                                  | Grounding Board Locks | Top Only Grounding Straps with Non-Threaded .125" Diameter Mounting Holes | Wrap Around Grounding Straps with Non-Threaded .125" Diameter Mounting Holes (K22/KF22/Only) | 4 Prong Board Locks |
| Riveted Threaded Inserts                                         | <b>N</b>              | <b>H</b>                                                                  | <b>O</b>                                                                                     | <b>NV</b>           |
| Riveted Threaded Inserts with 4-40 Hex. Jack Screws Installed    | <b>NJ</b>             | <b>HJ</b>                                                                 | <b>OJ</b>                                                                                    | <b>NVJ</b>          |
| 4-40 Round Jackscrews Riveted to Connector                       | <b>NR</b>             | <b>HR</b>                                                                 | <b>OR</b>                                                                                    | <b>NVR</b>          |
| Non-Threaded Riveted Inserts                                     | <b>NT</b>             | <b>HT</b>                                                                 | <b>OT</b>                                                                                    | <b>NVT</b>          |
| Riveted Threaded Inserts with M3/4-40 Hex. Jack Screws Installed | <b>NJM</b>            | <b>HJM</b>                                                                | <b>OJM</b>                                                                                   | <b>NVJM</b>         |

### PC Board Mounting Options

**N Option**



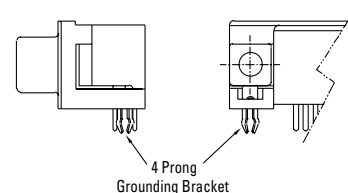
**H Option**



**O Option**



**NV Option**



### Front Panel Mounting Options

**Standard**

(4-40) Riveted Threaded Insert



**-J Option**

(4-40) Riveted Threaded Insert with 4-40 Hex. JS1000 Jack Screws Installed to Connector



**-R Option**

(4-40) Round Jack Screws Riveted to Connector



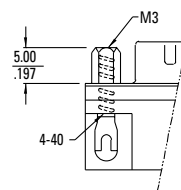
**-T Option**

Riveted Non-Threaded Insert 3.18/.125" Dia.



**-JM Option**

(4-40) Riveted Threaded Insert with M3/4-40 Hex. Jack Screws Installed 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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