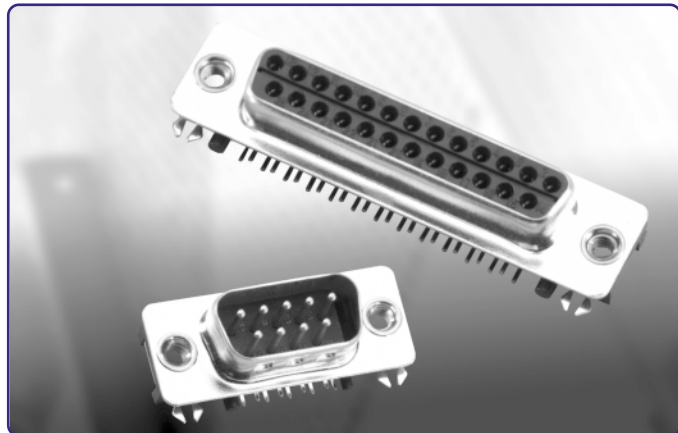




K31 Series **Right Angle PCB Mount** **Ultra Compact** **Footprint**

Ordering Information

K31	-	A15S	-	N	-		
Series		Configuration		Mounting Options		Other Options	Plating Options

Series

K31 - Kycon D-Subminiature Connector, Right Angle, PCB Termination, Ultra Compact Footprint
K31HT - Reflow Compatible Version

Configuration

E9P - 9 Pin Contacts (Plug)
E9S - 9 Socket Contacts (Receptacle)
A15S - 15 Socket Contacts (Receptacle)
B25S - 25 Socket Contacts (Receptacle)
E15S - 15 Socket Contacts High Density (Receptacle)

Mounting Options

N - With Board Locks and 4-40 Riveted Threaded Inserts
NJ - With Board Locks, Riveted Threaded Inserts and 4-40 Hex. Jack Screws Assembled to Connector

Other Options

Blank - Standard
ESD - With Electrostatic Discharge Bar (25 pin only)

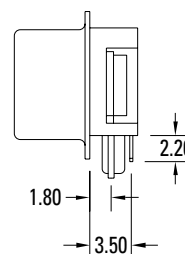
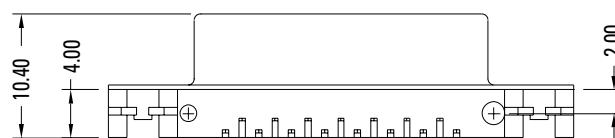
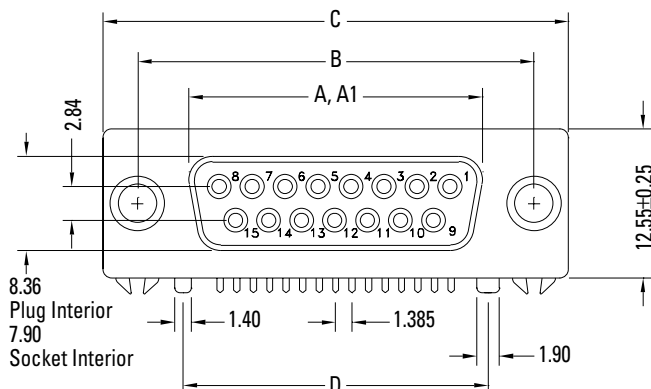
Plating Options

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

K31 Series



Shell Size In mm	A ±.010 ±0.25	A1 ±.010 ±0.25	B ±.005 ±0.13	C ±.015 ±0.38	D ±.005 ±0.13
9 (E)	.643 16.33	.666 16.92	.984 24.99	1.213 30.81	.551 14.00
15 (A)	.971 24.66	—	1.312 33.32	1.541 39.14	1.009 25.64
25 (B)	1.511 38.38	—	1.852 47.04	2.088 53.04	1.557 39.54

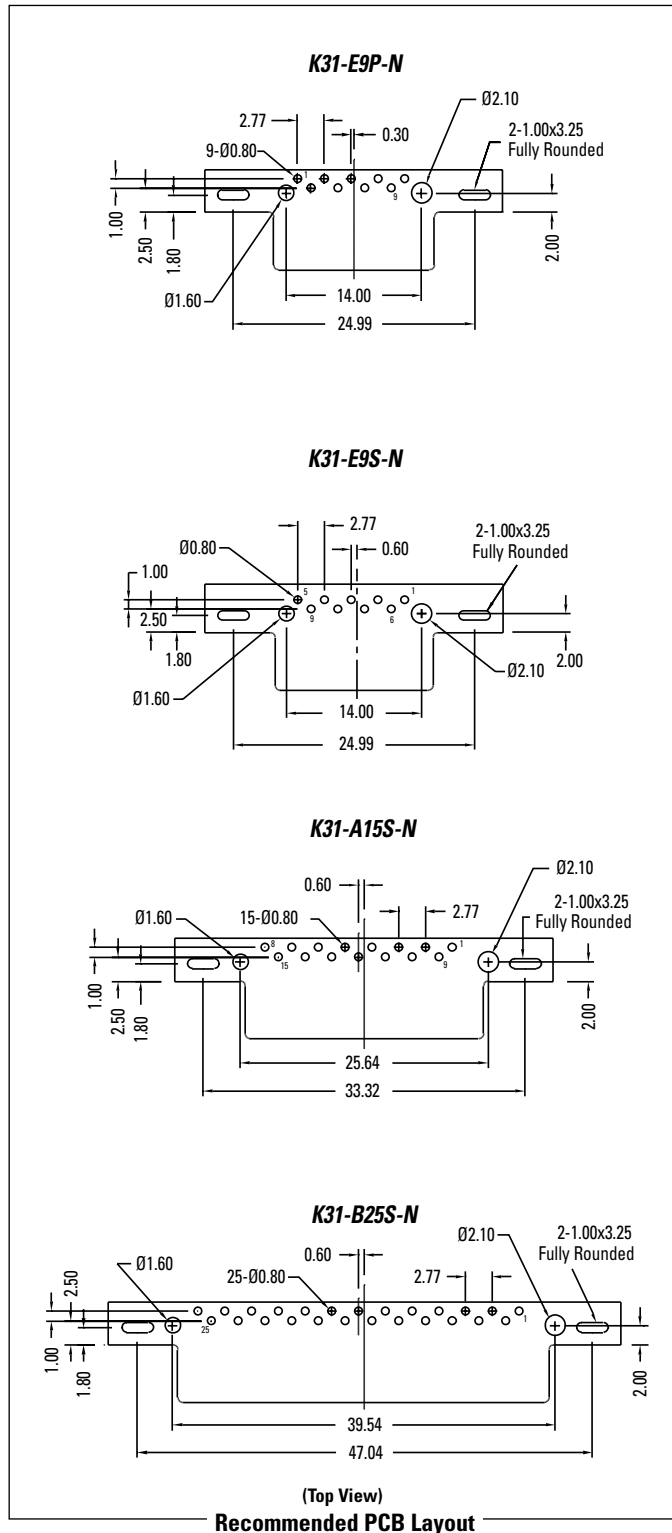
A = Exterior of Female Shell (S)

A1 = Interior of Male Shell (P)



K31 Series Dimensions

Dimensions in mm

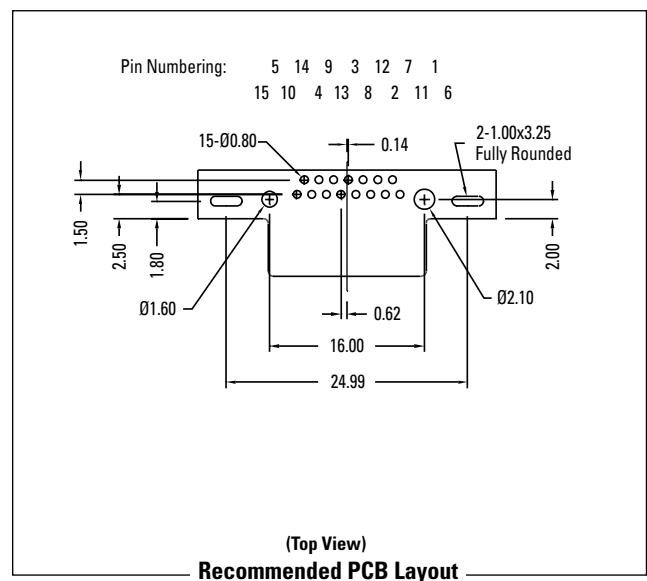
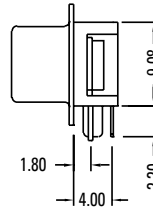
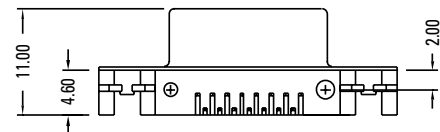
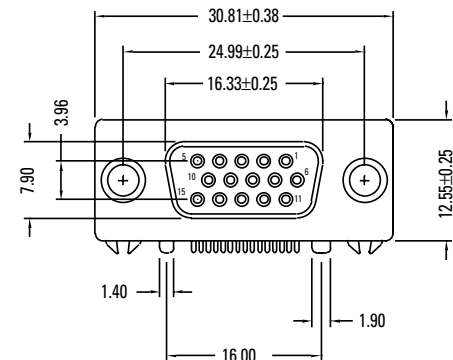


D-SUBMINIATURE CONNECTORS

K31 Series

K31-E15S-N

Dimensions in mm



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

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.