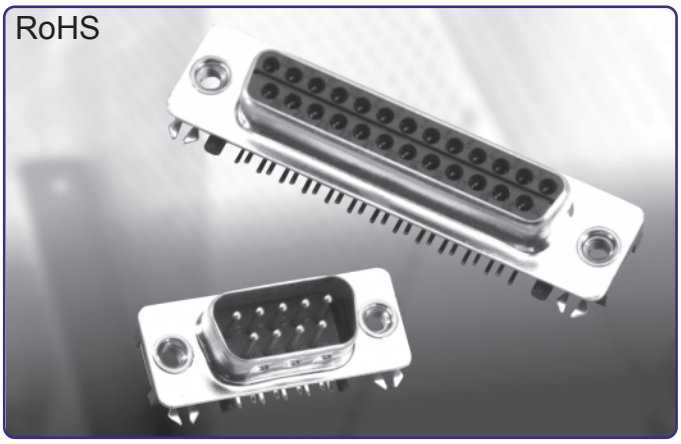
LEADERSHIP *in* Connector Design

KYCON

D-SUBMINIATURE CONNECTORS

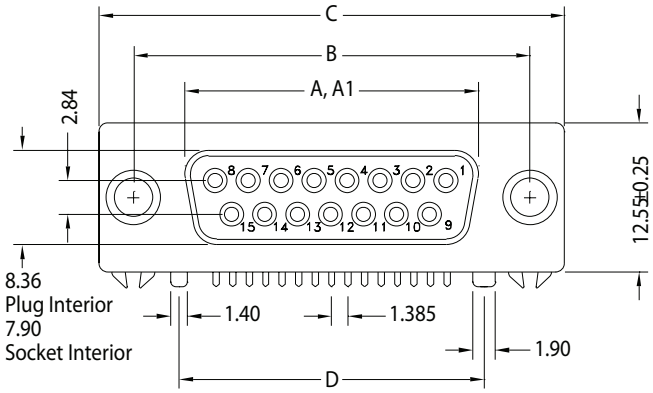
K31X Series

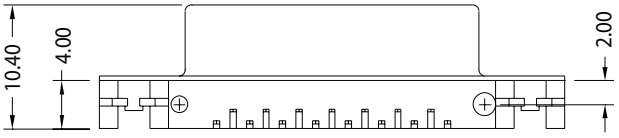
RoHS

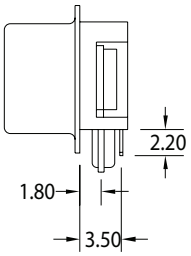


Click here for more information

K31X Series
Right Angle PCB Mount
Ultra Compact Footprint







Ordering Information

K31X – A15S – N –

Series | Configuration | Mounting Options | Other Options | Plating Options

Series
K31X -Kycon D-Subminiature Connector,Right Angle, PCB Termination, Ultra Compact Footprint
K31XHT - 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 over nickel on soldertails.
30	30µ" gold over nickel on mating end of contacts. Tin over nickel on soldertails.

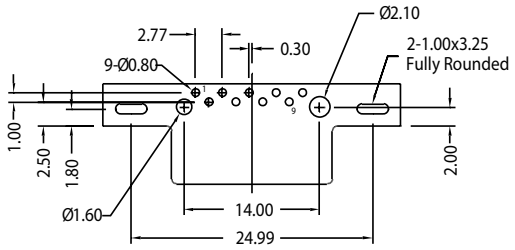
Shell Size / In / mm	A ±.010 ±0.25	A1 ±.010 ±0.25	B ±.005 ±0.13	C ±.015 ±0.38	D ±.005 ±0.13
9 (E)	.643 16.33	.666 16.92	.984 24.99	1.213 30.81	.551 14.00
15 (A)	.971 24.66	—	1.312 33.32	1.541 39.14	1.009 25.64
25 (B)	1.511 38.38	—	1.852 47.04	2.088 53.04	1.557 39.54

A = Exterior of Female Shell (S)
A1 = Interior of Male Shell (P)

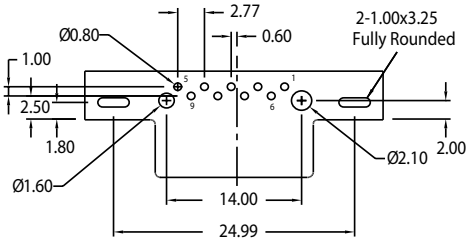
K31X Series Dimensions

Dimensions in mm

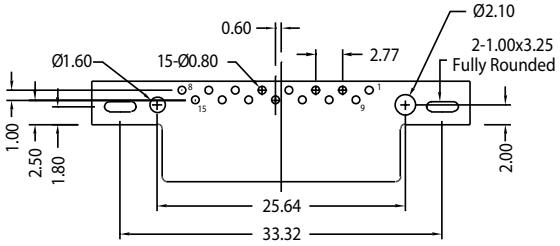
K31X-E9P-N



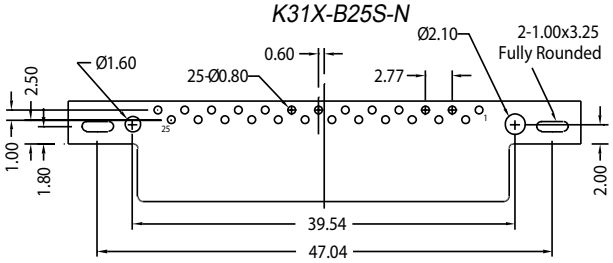
K31X-E9S-N



K31X-A15S-N



K31X-B25S-N

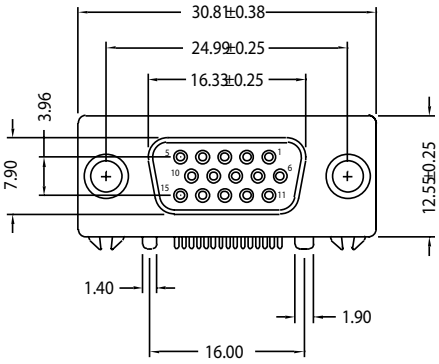


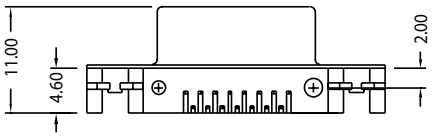
(Top View)

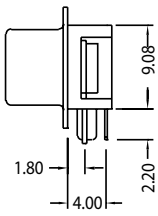
Recommended PCB Layout

K31X-E15S-N

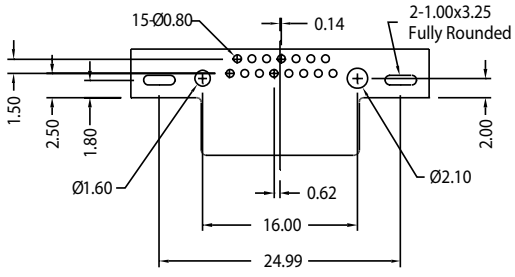
Dimensions in mm







Pin Numbering: 5 14 9 3 12 7 1
15 10 4 13 8 2 11 6



(Top View)

Recommended PCB Layout

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D-SUBMINIATURE CONNECTORS

Performance Specifications

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

Materials and Finish

Shell
Steel Material, Tin or Nickel 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
Plug : Brass .040 (1.00) 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 Over Nickel or Gold Flash Over Nickel on Solder Tails

Riveted Insert
Brass Material, Nickel Finish

Mechanical Characteristics

Durability
500 Insertion Cycles Min

Operating Temperature Rating
-55°C to +105°C

Electrical Characteristics

Contact Current Rating
5A

Contact Resistance
30 Milliohms Max

Dielectric Withstanding Voltage

1000 V AC Min for 1 Minute

Insulation Resistance
1000 Megohms Min,at 500 V DC

Processing Characteristics

Soldering Temperature Rating
High Temperature Plastic: 260 °C for 10 Seconds

Plating Options

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

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or E-mail: sales@kycon.com