LEADERSHIP *in*
Connector Design
KYCON

RoHS

K85R1X/K85R2X Series
Right Angle PCB Mount Open Body

Ordering Information

Series | Shell Size | Contact Construction | Number of Contacts | Contact Type | Mounting Options | Plating Options

Series

K85R1X - Kycon D-Subminiature Connector, Right Angle PCB Termination .283" (7.2 mm) Foot Print

K85R2X - Kycon D-Subminiature Connector, Right Angle PCB Termination .370" (9.4 mm) European Foot Print

Shell Size
E - 9 Contacts
A - 15 Contacts
B - 25 Contacts

Contact Construction
D - Precision Formed Right Angle

Number of Contacts
9, 15, 25

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

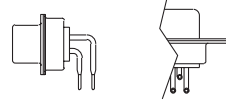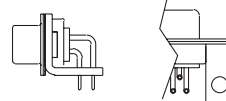### Plating Options and Performance Specifications

Mounting Options *
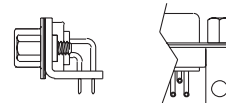
*Metric Jack Screws also available.

**No Designator** - No Mounting Brackets

O - Mounting Brackets with .120" Dia. Non-Threaded Mounting Holes and Riveted Threaded Inserts
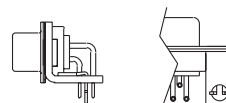
OJ - Mounting Brackets with .120" Dia. Non-Threaded Mounting Holes and Riveted Threaded Inserts with JS-1055 4-40 Hex Jackscrews Installed
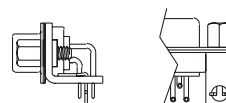
OR - Mounting Brackets with .120" Dia. Non-Threaded Mounting Holes with 4-40 Round Jackscrews Riveted to Connector
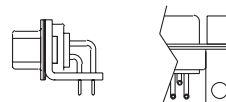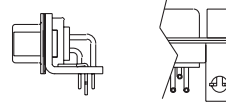
N - Mounting Brackets with Grounding Boardlocks and Riveted Threaded Inserts

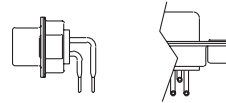**NJ -** Mounting Brackets with Grounding Boardlocks and Riveted Threaded Inserts with JS-1055 4-40 Hex Jackscrews Installed
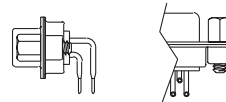
NR - Mounting Brackets with Grounding Boardlocks and Riveted Threaded Inserts with 4-40 Round Jackscrews Riveted to Connector

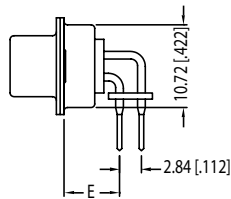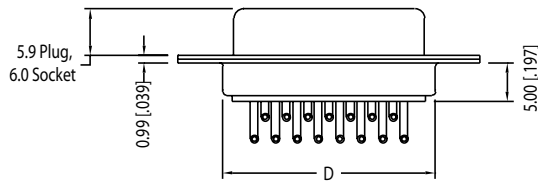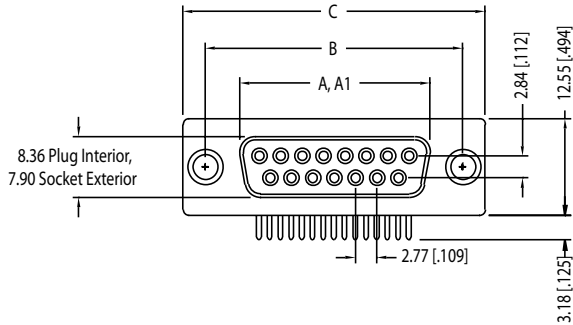**K -** (No Mounting Brackets) Riveted Threaded 4-40 Bushings

KJ - (No Mounting Brackets) Riveted Threaded 4-40 Bushings with JS-1055 4-40 Hex Jackscrews Installed

LEADERSHIP *in*
Connector Design

KYCON

K85R1X/K85R2X Dimensions
Standard with No Mounting Brackets

8.36 Plug Interior,
7.90 Socket Exterior

2.84 [.112]

12.55 [.494]

2.77 [.109]

3.18 [.125]

5.9 Plug,
6.0 Socket

0.99 [.039]

5.00 [.197]

D

10.72 [.422]

2.84 [.112]

E

K85R1X/K85R2X Dimensions
With Mounting Brackets, and Grounding Board Locks

8.36 Plug Interior,
7.90 Socket Exterior

2.84 [.112]

12.55 [.494]

2.77 [.109]

3.18 [.125]

5.9 Plug,
6.0 Socket

0.99 [.039]

5.00 [.197]

2.84 [.112]

F

E
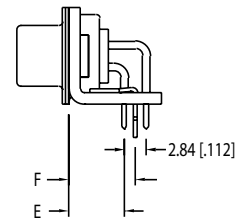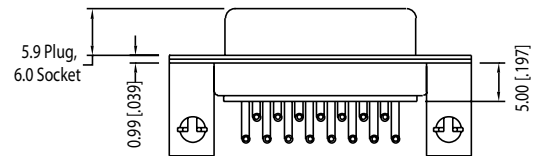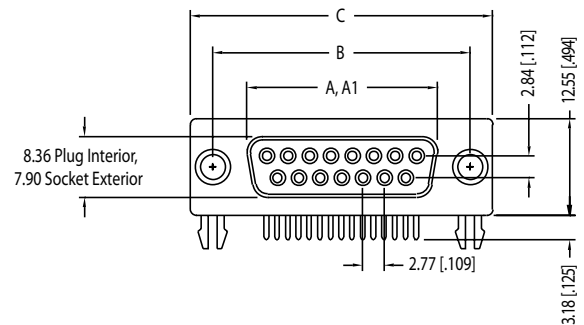
Dimensions in mm

Number of Contacts (Shell Size)	Dimensions in mm K85R1X/K85R2X				
	A	A1	B	C	D
9 (E)	16.33	16.92	24.99	30.81	20.19
15 (A)	24.66	25.25	33.32	39.14	27.51
25 (B)	38.38	38.96	47.04	53.04	41.96
37 (C)	54.84	55.42	63.50	69.32	57.71

Series	E Dimension	F Dimension
K85R1X	7.2mm	8.47mm
K85R2X	9.4mm	10.82mm

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

2.84 [.112]

B

1.385 [.054]

2.77 [.109]

Ø1.09 [.043]

E

F

Ø3.05 [.120]
*N and
O Options
Only*

(Top View)
Recommended PCB Layout
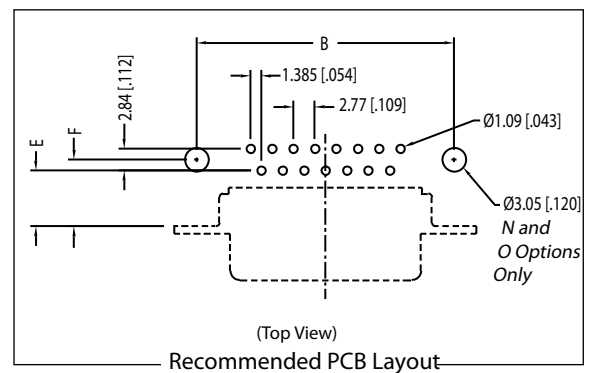
KYCON continues its leadership in D-Subminiature connectors by offering a complete line of sizes and options.

PC99 Colors Available:
• HD15: Blue
• DB15: Gold
• DB25: Burgundy
• DB09: Teal

D-SUBMINIATURE CONNECTORS
Performance Specifications

Materials and Finish

Shell
Steel Material, Tin 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.