



## KF44 Series Right Angle PCB Mount .590" Footprint with Ferrite

### Ordering Information

KF44	-	B	25	S	-	P
Series	Shell Size	Number of Contacts	Contact Type	Mounting Options	Plating Options	
<b>Series</b>						
KF44 - Kycon D-Subminiature Connector, Right Angle PCB Termination, .590 Footprint, with Ferrite						
<b>Shell Size</b>						
E-9 Contacts						
A-15 Contacts						
B-25 Contacts						
C-37 Contacts						
<b>Number of Contacts</b>						
9, 15, 25, 37						
<b>Contact Type</b>						
P-Pin Contact (Plug)						
S-Socket Contact (Receptacle)						
<b>Mounting Options</b> (see page 36)						
<b>Plating Options and Performance Specifications</b> (see page 4)						

### Ferrite Specifications

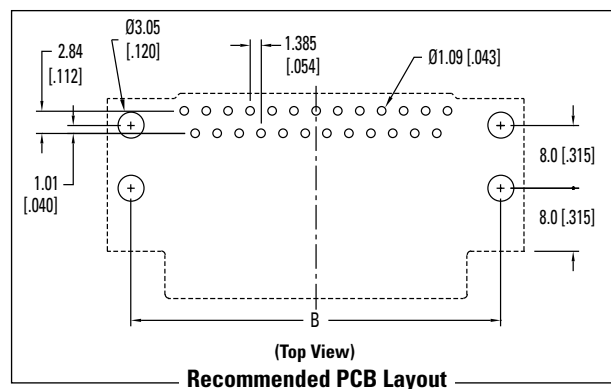
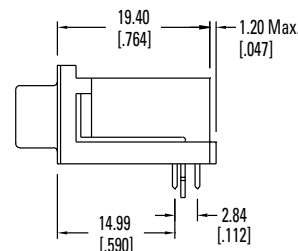
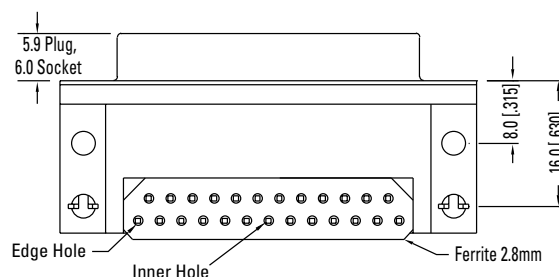
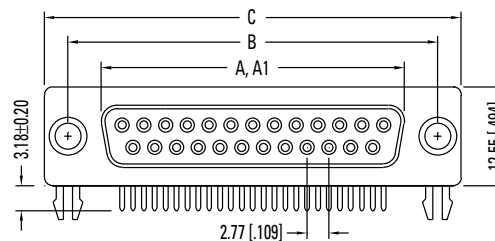
Test Frequency	Edge Hole	Inner Hole
30 Mhz	17-27 Ohms	22-30 Ohms
50 Mhz	22-30 Ohms	29-37 Ohms
100 Mhz	29-34 Ohms	35-40 Ohms

## FERRITE D-SUBMINIATURE

### KF44 Series

### KF44 Series Dimensions

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



Shell Size	A	AI	B	C
	$\pm .010$ $\pm 0.25$	$\pm .010$ $\pm 0.25$	$\pm .005$ $\pm 0.13$	$\pm .015$ $\pm 0.38$
9 (E)	.643 16.33	.666 16.92	.984 24.99	1.213 30.81
15 (A)	.971 24.66	.994 25.25	1.312 33.32	1.541 39.14
25 (B)	1.511 38.38	1.534 38.96	1.852 47.04	2.088 53.04
37 (C)	2.159 54.84	2.182 55.42	2.500 63.50	2.729 69.32

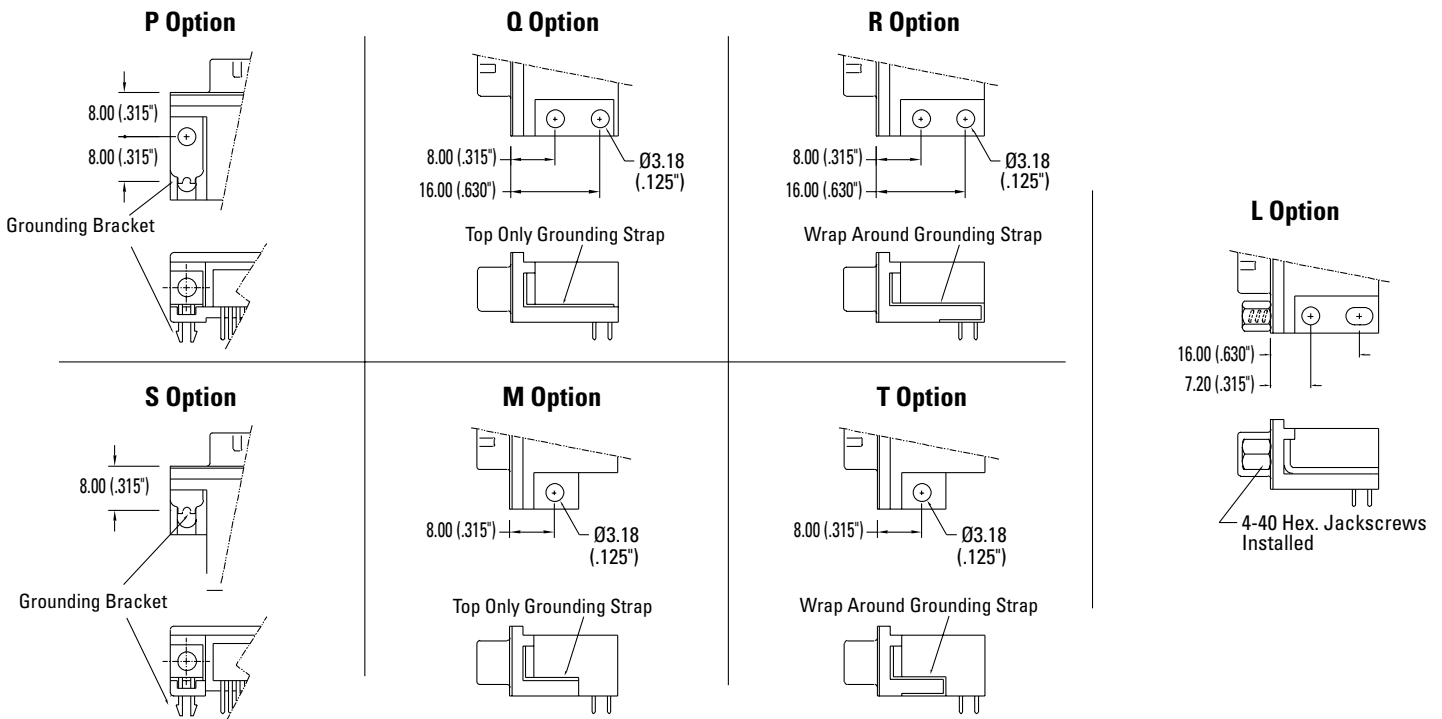
A = Exterior of Female Shell (S)  
AI = Interior of Male Shell (P)

### Mounting Options K44, KF44

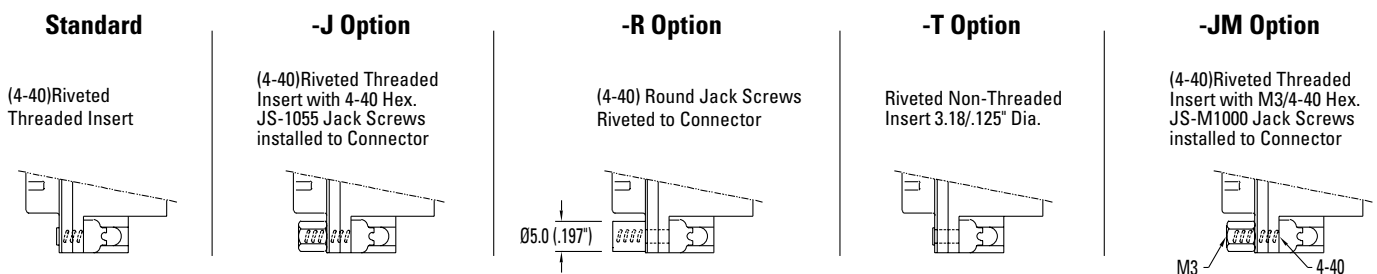
Front Panel Mounting Options	PCB Mounting Options						
	Both .125" Diameter and Oblong Non-Threaded Mounting Holes and 4-40 Hex. Jack Screws Assembled to Connector	Board Locks and .125" Diameter Mounting Holes	Top Only Grounding Straps with Non-Threaded .125" Diameter Mounting Holes	Wrap Around Grounding Straps with Non-Threaded .125" Diameter Mounting Holes	Short Mounting Flange with Board Locks	Short Mounting Flange Top Only Grounding Straps with Non-Threaded .125" Diameter Mounting Holes	Short Mounting Flange with Wrap Around Grounding Straps with Non-Threaded .125" Diameter Mounting Holes
Riveted Threaded Inserts	<b>Not Available</b>	<b>P</b>	<b>Q</b>	<b>R</b>	<b>S</b>	<b>M</b>	<b>T</b>
Riveted Threaded Inserts with 4-40 Hex. Jack Screws Installed	<b>L*</b>	<b>PJ</b>	<b>QJ</b>	<b>RJ</b>	<b>SJ</b>	<b>MJ</b>	<b>TJ</b>
4-40 Round Jackscrews Riveted to Connector	<b>Not Available</b>	<b>PR</b>	<b>QR</b>	<b>RR</b>	<b>SR</b>	<b>MR</b>	<b>TR</b>
Non-Threaded Riveted Inserts	<b>Not Available</b>	<b>PT</b>	<b>QT</b>	<b>RT</b>	<b>ST</b>	<b>MT</b>	<b>TT</b>
Riveted Threaded Inserts with M3/4-40 Hex. Jack Screws Installed	<b>Not Available</b>	<b>PJM</b>	<b>QJM</b>	<b>RJM</b>	<b>SJM</b>	<b>MJM</b>	<b>TJM</b>

\*Removal of jack screws will cause disassembly of L option part. Dimensions in mm [In]

### PC Board Mounting Options



### Front Panel Mounting Options



*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.

**KYCON continues its leadership in Ferrite D-Subs by offering a complete line of styles, sizes, and pin configurations.**

**Features:**

- Applications include Computer Peripherals, Data Processing, Telecommunications, Industrial Controls, and Local Area Networks
- High performance ferrite filter with superior high frequency attenuation characteristics
- Minimal effect on fundamental waveforms
- EMI/RFI noise suppression in data communication lines
- Cost effective way to meet FCC and VDE Class B requirements
- Does not require any more board space than a standard D-Sub
- No need to redesign board layout to accommodate separate filter placement
- UL Recognized File No. E140125



**FERRITE D-SUBMINIATURE CONNECTORS**

*Directory*

**Right Angle**

<b>KF22 - 0.318" footprint</b>	<b>28</b>
<b>KF44 - 0.590" footprint</b>	<b>29</b>
<b>KF66 - High Density 0.350" footprint</b>	<b>30</b>
<b>KF42 - Dual Port</b>	<b>31</b>



**Vertical**

<b>KF85 - Low Profile</b>	<b>32</b>
<b>KF86 - High Density</b>	<b>33</b>
<b>KF88 - High Profile</b>	<b>34</b>



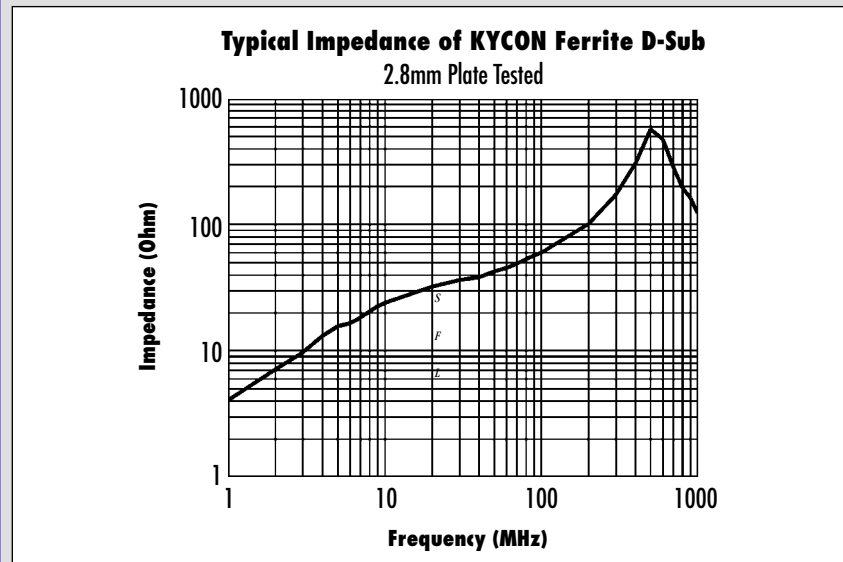
**Technical Information:**

Ferrite filters provide an easy and efficient way of reducing both radiated and conducted interference. KYCON uses a medium permeability nickel zinc ferrite material that is most effective at attenuating frequencies above 30MHz.

$$Attenuation = 20 \log_{10} \frac{[Z_s + Z_f + Z_L]}{[Z_s + Z_L]} \text{ dB}$$

Where  $Z_s$  = Source Impedance  
 $Z_f$  = Ferrite Impedance  
 $Z_L$  = Load Impedance

With the above impedance values calculated at the interference frequency.



The above chart is typical performance data for a 2.8mm thick ferrite plate at room temperature. Impedance will be reduced by increased temperature (down approx. 15% at 100°C at 25MHz) and by increased DC bias (down approx. 15% at 1 amp at 25MHz). Also, impedance varies with ferrite thickness. Please contact our technical support for data specific to your application.

KYCON Tech Support: **1-888-KYCON-22**  
 or E-mail: sales@kycon.com

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Kycon:

[KF44-A15S-T](#) [KF44-A15S-S](#) [KF44-A15S-R](#) [KF44-A15S-M](#) [KF44-A15S-Q](#) [KF44-A15S-P](#) [KF44-E9S-T](#) [KF44-B25P-MJ30](#) [KF44-E9S-P](#) [KF44-E9S-R](#) [KF44-E9S-M](#) [KF44-E9S-S](#) [KF44-E9S-Q](#) [KF44-E9P-T15](#) [KF44-E9P-T30](#) [KF44-E9S-SJ15](#) [KF44-C37S-RR15](#) [KF44-A15P-Q30](#) [KF44-A15P-Q15](#) [KF44-C37S-R15](#) [KF44-B25S-QR30](#) [KF44-B25P-Q15](#) [KF44-C37S-R30](#) [KF44-A15P-M30](#) [KF44-E9S-PT](#) [KF44-E9S-PR](#) [KF44-E9S-PJ](#) [KF44-A15S-QJ15](#) [KF44-B25P-M30](#) [KF44-B25S-SR15](#) [KF44-E9S-TR](#) [KF44-E9S-TT](#) [KF44-E9S-TJ](#) [KF44-B25S-SR30](#) [KF44-A15S-RJ](#) [KF44-A15S-QT](#) [KF44-A15S-PT](#) [KF44-B25S-TT30](#) [KF44-A15S-SR](#) [KF44-A15S-PR](#) [KF44-A15S-RR](#) [KF44-A15S-RT](#) [KF44-A15S-PJ](#) [KF44-A15S-SJ](#) [KF44-A15S-QJ](#) [KF44-A15S-TJ](#) [KF44-A15S-ST](#) [KF44-A15S-TT](#) [KF44-B25S-TT15](#) [KF44-A15S-MJ](#) [KF44-A15S-MR](#) [KF44-A15S-TR](#) [KF44-A15S-MT](#) [KF44-A15S-QR](#) [KF44-C37S-SJ](#) [KF44-C37S-MJ](#) [KF44-C37S-MR](#) [KF44-C37S-PT](#) [KF44-C37S-ST](#) [KF44-B25S-M](#) [KF44-B25S-S](#) [KF44-B25S-R](#) [KF44-C37S-SR](#) [KF44-C37S-TJ](#) [KF44-B25S-Q](#) [KF44-B25S-P](#) [KF44-B25S-T](#) [KF44-C37S-RT](#) [KF44-C37S-QR](#) [KF44-C37S-PR](#) [KF44-C37S-PJ](#) [KF44-C37S-QT](#) [KF44-C37S-QJ](#) [KF44-C37S-RJ](#) [KF44-C37S-TT](#) [KF44-C37S-TR](#) [KF44-C37S-RR](#) [KF44-C37S-MT](#) [KF44-C37S-SJ30](#) [KF44-B25P-TT30](#) [KF44-E9S-S30](#) [KF44-E9S-S15](#) [KF44-B25P-PJ30](#) [KF44-C37P-RR30](#) [KF44-C37P-RR15](#) [KF44-B25P-PJ15](#) [KF44-E9P-TJ15](#) [KF44-B25P-QR30](#) [KF44-B25P-QR15](#) [KF44-C37P-R](#) [KF44-C37P-Q](#) [KF44-C37P-S](#) [KF44-C37P-T](#) [KF44-C37P-QR15](#) [KF44-C37P-QR30](#) [KF44-C37P-P](#) [KF44-C37P-M](#) [KF44-B25P-MJ](#) [KF44-E9S-Q15](#) [KF44-B25P-MT](#)