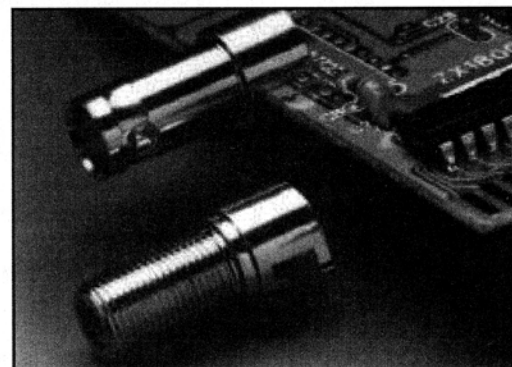


## V-Bite® PC Edge Mount

**The V-Bite®** is an industry award winning design PCB connector with all the advantages a designer could want. It edge mounts to the board which offers the lowest profile and utilizes very little PCB real estate. It lends itself to surface mount and through-hole soldering techniques. There are versions for IR and convection reflow soldering. Because the connector locks into place both above and below the PCB it disperses rotational torque relief to the board and not the solder points. The V-Bite® design offers the lowest VSWR ratings due to the straight through-put contact design. No right angles for reflection. Available in 50 and 75 ohm, threaded and non-threaded. Other options for PCB thickness available. Other interfaces available. See "F" section.

Part Number	Description	Imp	Contact	Fig. No.
361V504ER	BNC Jack W/ Teflon For Reflow Solder	50Ω	Phos./Gold	39A
361V504ET	BNC Threaded Jack W/ Teflon For Reflow Solder	50Ω	Phos./Gold	39
361V509E	BNC Jack W/ Polyethylene Insulator	50Ω	Phos./Tin	39A
361V509ET	BNC Threaded Jack W/ Polyethylene Insulator	50Ω	Phos./Tin	39
361V509EFT*	BNC Threaded Jack W/ Polyethylen Insitr /Flange	50Ω	Phos./Tin	39B
361V704ER	BNC Jack W/ Teflon For Reflow Solder	75Ω	Phos./Gold	39A
361V704ET	BNC Threaded Jack W/ Teflon For Reflow Solder	75Ω	Phos./Gold	39
361V709E	BNC Jack W/ Polyethylene Insulator	75Ω	Phos./Gold	39A
361V709ET	BNC Threaded Jack W/ Polyethylene Insulator	75Ω	Phos./Gold	39

Less Than One Inch Long



Low Profile .270 High FMS

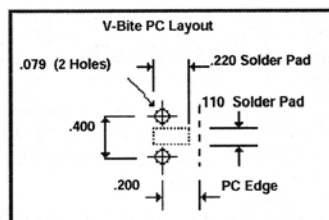
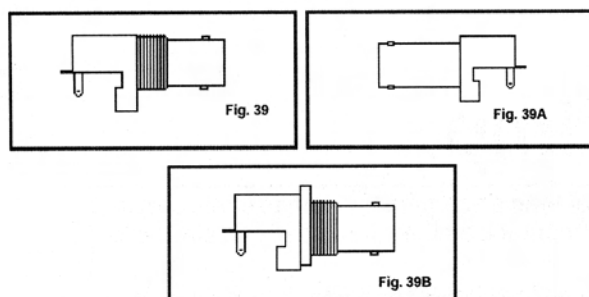
Anti Rotational

VSWR 1.15:1

Patented V-Bite® Snaps Into PCB

Surface Mount Center Contact

Pick & Place Version Available

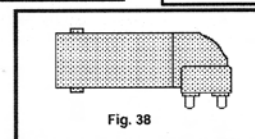
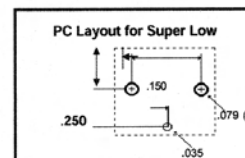
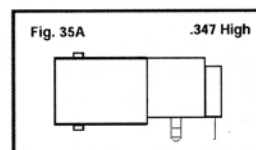


## Reduced Size PCB Right Angle Mount

**The Super Low™ Profile** BNC PC jack reduces the amount of board space needed to mount a PC jack. Board clips hold the unit in place for soldering. The smallest, lowest profile right angle BNC jack available.

**The Lo-Deco™** features a four post design that offers greater stability after wave soldering. Also featured is a gold plated contact and nickel plated cast zinc body. Smooth, sleek and aesthetically pleasing design is tumbled to remove casting lines.

Part Number	Description	Imp.	Contact	Fig. No.
364M595M	BNC SuperLow Profile Jack	50Ω	Phos./Gold	35A
364M795M	BNC SuperLow Profile Jack	75Ω	Phos./Gold	35A
364M095	BNC Lo-Deco Jack	50Ω	Phos./Gold	38
364M0975	BNC Lo-Deco Jack	75Ω	Phos./Gold	38



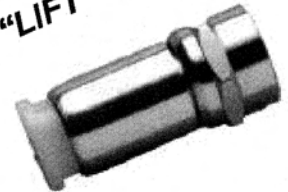
\*Denotes that items are not popular and may require a special minimum order quantity.

## Push EZ™ "F" Plugs With LIFT™

Bomar's exclusive LIFT® Technology (Low Insertion Force Termination) is used in the patented Push-EZ™ connector. It installs by simply stripping the cable and inserting it into the connector. That's it. And it will not pull out.

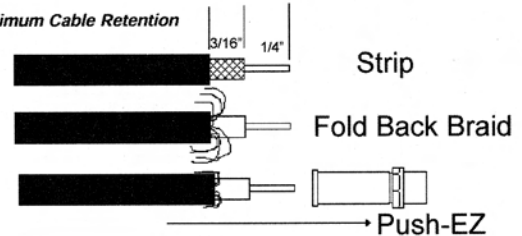
*No crimp tooling required.*

New "LIFT"™ Technology



Part Number	Description	RG/U Cable	Body Plating
810PE209A	Push-EZ™ Plug with LIFT® Technology	6	Nickel
810PE209G	Push-EZ™ Plug with LIFT® Technology	59	Nickel
810PE205A	Push-EZ™ Plug with LIFT® Technology	6	Gold
810PE205G	Push-EZ™ Plug with LIFT® Technology	59	Gold

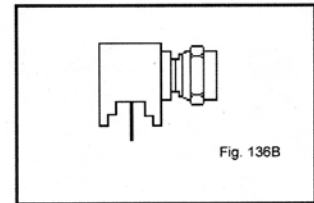
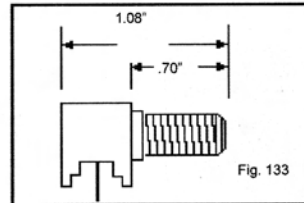
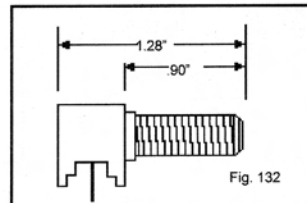
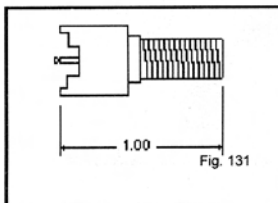
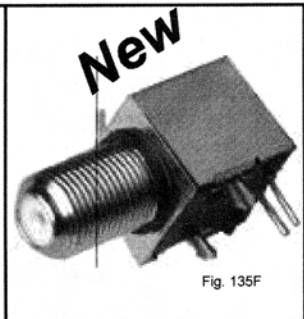
40 lb. Minimum Cable Retention



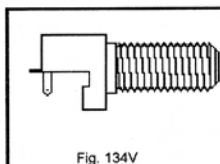
## PC Board Connectors

Part Number	Description	RG/U Cable	Fig. No.
861A509	PC Board Jack, Vertical	N/A	131
861V509E	V-Bite™ Edge Mount PC Jack	N/A	134V
861V509ER	V-Bite™ Reflow Type w/ TFE Insulator	N/A	134V
864B509	PC Board Jack, Right Angle, Long	N/A	132
864B509S	PC Board Jack, Right Angle, Short	N/A	133
864F509S	PC Board 4700pF Filtered F Jack, Right Angle	N/A	135F
866B509	PC Board Male, Right Angle	N/A	136B

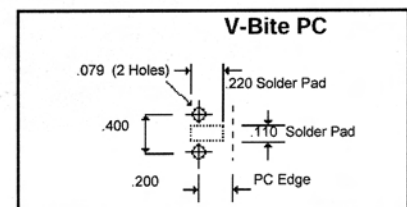
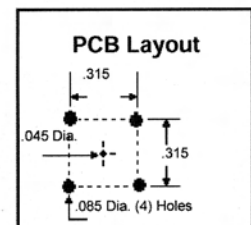
Decoupled, shielded, PCB F jack has 4700 PF capacitance integrated into the unit. The connector fits into standard PCB footprints. Has grounding tab for panel cutout.



## The V-Bite™



V-Bite™ Mounts on the PC board edge and is extremely anti-rotational. It locks into the board for soldering. Available in reflow soldering version on special order.



## 621/622 SERIES

Plug and Receptacle, Right Angle, .318" (8.08mm) Footprint



### FEATURES

- Two contact rows with .318" (8.08mm) footprint right-angle bend.
- .109" (2.77mm) contact spacing x .112" (2.82mm) row spacing.
- Plug and receptacle in 9-, 15-, 25- or 37-pin contact sizes.
- Pin and socket contact mating design with PC tail termination.
- Metal shell provides EMI/RFI shielding. Plug shell indents provide grounding and additional mating retention.
- Grounding features include top or bottom ground plates and four-prong boardlock for superior retention to PC board.
- Mounting options for panel mount or connector mating include through-hole, threaded inserts and threaded standoffs.
- D-shaped connector mating outline provides polarization.
- Design based on requirements of MIL-C-24308, EIA-RS-232 and RS-449.

### SPECIFICATIONS

- Insulator Material: Thermoplastic polyester, UL94V-0; chemical resistant; colour - black.
- Ferrite Specifications: Attenuation - 20dB MIN @ 30Mhz, 30dB MIN @ 50MHz, and 50dB MIN @ 100Mhz.
- Contact Material: Plug contacts - brass; receptacle contacts - phosphor bronze.
- Contact Plating: Gold over nickel for the mating area; tin/lead plating on contact tails.
- Shell Material: Nickel-plated steel.
- Current Rating: 5 amperes.
- Contact Resistance: 10 milliohms maximum.
- Dielectric Withstanding Voltage: 1000 V AC rms @ sea level.
- Insulation Resistance: 5000 megohms minimum.
- Operating Temperature: -55° to +125° C
- Engagement & Separation Force: 1 to 10 oz. (0.28 to 2.78 N) per contact position.

### SERIES

621.....Plug  
622.....Receptacle

### TOTAL CONTACTS

009, 015, 025, 037.....50 (machined pin only)

### CONTACT/PLATING CODE

260.....Gold Flash (Class 3)  
560.....10m" (0.25mm) (Class 2)  
660.....30m" (0.76mm) (Class 1)  
668.....Ferrite Filter

### EDAC INTERNAL USE

0.....Indicates generic internal use code

### GROUNDING FEATURE

1......120" (3.05mm) dia. through hole top ground  
3.....Two-prong boardlocks for .120" (3.05mm) dia. PCB hole  
4.....Four-prong boardlocks for .120" (3.05mm) dia. PCB hole

### MOUNTING OPTION

0.....#4-40 UNC fixed standoff  
1......125" (3.18mm) dia. through-hole  
2.....#4-40 UNC threaded insert  
3.....#4-40 UNC threaded standoff  
5.....#4-40 UNC threaded standoff & lock washer

### ORDERING CODE

Series + Total Contacts + Contact/Plating Code + Edac Internal Use +  
+ Grounding Feature + Mounting Option = Ordering Code  
Example: 621-025-560-0-1-3

## 633/634 SERIES

Plug and Receptacle, Right Angle, High-Density, .350" (8.89mm) Footprint



### FEATURES

- High-density three contact rows with .350" (8.89mm) footprint right angle bend.
- .090" (2.29mm) contact spacing x .078" (1.98mm) row spacing.
- Optional 9th contact recessed by .050" (1.27mm) on 15-pin part, in accordance with VESADisplay Data Channel Standard.
- Receptacles and plugs 15-, 26-, 44-, 62- and 78-pin contact sizes.
- Socket contact mating design with PC tail termination.
- Metal shell provides EMI/RFI shielding. Plug shell indents provide grounding and additional mating retention.
- Grounding features include top or bottom ground plates and two- or four-prong boardlock for exceptional retention to PC board.
- Mounting options for panel mount or connector mating include through-hole, threaded inserts and threaded standoffs.
- D-shaped connector mating outline provides polarization design based on requirements of MIL-C-24308, EIA-RS-232 and RS-449.

### SPECIFICATIONS

- Insulator Material: Thermoplastic polyester, UL 94V-0; chemical resistant; colour - black or blue.
- Ferrite Specifications: Attenuation - 17dB MIN @ 30Mhz, 25dB MIN @ 50Mhz and 40dB @ 100Mhz.
- Contact Material: receptacle contacts - phosphor bronze.
- Contact Plating: Gold over nickel for the mating area, tin/lead plating on contact tails.
- Shell Material: Tin/lead plated steel.
- Current Rating: 5 amperes.
- Contact Resistance: 10 milliohms maximum.
- Dielectric Withstanding Voltage: 1000V AC rms at sea level.
- Insulation Resistance: 5000 megohms minimum.
- Operating Temperature: -55° to +125° C.
- Engagement and Separation Force: 1 to 10 oz. (0.28 to 2.78 N) per contact position.

### SERIES

633.....Plug  
634.....Receptacle

### TOTAL CONTACTS

015, 026, 044, 062 (078 - Female Only)

### PLATING CODE

2.....Gold Flash (Class 3)  
5.....10m" (0.25mm) (Class 2)  
6.....30m" (0.76mm) (Class 1)

### CONTACT CODE

63.....Standard contacts, black plastic  
68.....Ferrite filter  
73.....9th contact recessed .050" (1.27mm), black insulator  
74.....9th contact recessed .050" (1.27mm), blue insulator

### EDAC INTERNAL USE

0.....Indicates generic internal use code

### GROUNDING FEATURE

1......120" (3.05mm) dia. through-hole top ground  
2......120" (3.05mm) dia. through-hole bottom ground (633)  
3.....Two-prong boardlocks for .120" (3.05mm) dia. hole  
4.....Four-prong boardlocks for .120" (3.05mm) dia. hole  
9.....High-temperature four-prong boardlocks

### MOUNTING OPTION

0.....#4-40 UNC standoff w/ threaded insert  
1......125" (3.18mm) dia. through-hole  
2.....#4-40 UNC threaded insert  
3.....#4-40 UNC hex standoff w/ threaded insert

### ORDERING CODE

Series + Total Contacts + Contact Code + Edac Internal Use +  
Grounding Feature + Mounting Option = Ordering Code  
Example: 634-015-632-0-4-2

## 627/628 SERIES (Plastic)

Plug and Receptacle, Vertical, PCB Mount, PLASTIC Body



### FEATURES

- Low profile available.
- .109" (2.77mm) contact spacing x .112" (2.82mm) row spacing.
- Plug and receptacle in 9-, 15-, 25-, 37-pin contact sizes.
- Pin and socket contact mating design with PC tail termination.
- Metal shell provides EMI/RFI shielding. Plug shell indents provide grounding and additional mating retention.
- Grounding features include two-prong boardlock for exceptional retention to PC board.
- Mounting options for panel mount or connector mating include through-hole, threaded inserts and threaded standoffs.
- D-shaped connector mating outline provides polarization design based on requirements of MIL-C-24308, EIAARS-232 and RS-449.

### SPECIFICATIONS

- Insulator Material: Thermoplastic polyester, UL94V-0; chemical resistant; colour - black.
- Contact Material: Plug contacts - brass; receptacle contacts - phosphor bronze.
- Contact Plating: Gold over nickel for the mating area, tin/lead plating on contact tails.
- Shell Material: Nickel-plated steel (tin/lead optional)
- Current Rating: 5 amperes.
- Contact Resistance: 10 milliohms maximum.
- Dielectric Withstanding Voltage: 1000V AC rms at sea level.
- Insulation Resistance: 5000 megohms minimum.
- Operating Temperature: -55° to +125° C.
- Engagement and Separation Force: 1 to 10 oz. (0.28 to 2.78 N) per contact position.

### SERIES

627 .....Plug  
628 .....Receptacle

### TOTAL CONTACTS

009, 015, 025, 037

### PLATING CODE

2 .....Gold Flash (Class 3)  
3 .....15m" (0.38mm) (Class 2)  
6 .....30m" (0.76mm) (Class 1)

### CONTACT CODE

20 .....PCTail .140" (3.18mm)  
21 .....PCTail .165" (4.18mm)

### EDAC INTERNAL USE

0 .....Indicates generic internal use code

### BODY STYLE

1 .....Plastic .237" (6.02mm) low profile, polyester

### MOUNTING OPTION

1 ......125" (3.18mm) dia. through-hole  
2 .....#4-40 UNC threaded inserts  
3 .....#4-40 UNC threaded standoffs  
4 .....#4-40 UNC threaded insert with dip solder prongs  
5 .....#4-40 UNC threaded standoff with dip solder prongs  
6 .....#4-40 UNC threaded insert with boardlocks  
7 .....#4-40 UNC threaded standoff with boardlocks

### ORDERING CODE

Series + Total Contacts + Plating Code + Contact Code + Edac Internal Use + Body Style + Mounting Option = Ordering Code  
Example: 627-025-2-20-0-1-7

## 627/628 SERIES (Metal)

Plug and Receptacle, Vertical, PCB Mount, METAL Body



### FEATURES

- Both low and high profiles available.
- .109" (2.77mm) contact spacing x .112" (2.82mm) row spacing.
- Plug and receptacle in 9-, 15-, 25-, 37- and 50-pin contact sizes.
- Pin and socket contact mating design with PC tail termination.
- Metal shell provides EMI/RFI shielding. Plug shell indents provide grounding and additional mating retention.
- Grounding features include two-prong boardlock for exceptional retention to PC board.
- Mounting options for panel mount or connector mating include through-hole, threaded inserts and threaded standoffs.
- D-shaped connector mating outline provides polarization design based on requirements of MIL-C-24308, EIAARS-232 and RS-449.

### SPECIFICATIONS

- Insulator Material: Thermoplastic polyester, UL94V-0; chemical resistant; colour - black.
- Ferrite Specifications: Attenuation - 20dB MIN @ 30Mhz, 30dB MIN @ 50Mhz and 50db MIN @ 100Mhz.
- Contact Material: Plug contacts - brass; receptacle contacts - phosphor bronze.
- Contact Plating: Gold over nickel for the mating area, tin/lead plating on contact tails.
- Shell Material: Nickel-plated steel (tin/lead optional)
- Current Rating: 5 amperes.
- Contact Resistance: 10 milliohms maximum.
- Dielectric Withstanding Voltage: 1000V AC rms at sea level.
- Insulation Resistance: 5000 megohms minimum.
- Operating Temperature: -55° to +125° C.
- Engagement and Separation Force: 1 to 10 oz. (0.28 to 2.78 N) per contact position.

### SERIES

627 .....Plug  
628 .....Receptacle

### TOTAL CONTACTS

009, 015, 025, 037, 050

### PLATING CODE

2 .....Gold Flash (Class 3)  
3 .....15m" (0.38mm) (Class 2)  
6 .....30m" (0.76mm) (Class 1)

### CONTACT CODE

20 .....PCTail .125" (3.18mm)  
21 .....PCTail .165" (4.18mm)  
22 .....Solder cup termination  
28 .....Ferrite filter

### EDAC INTERNAL USE

0 .....Indicates generic internal use code

### BODY STYLE

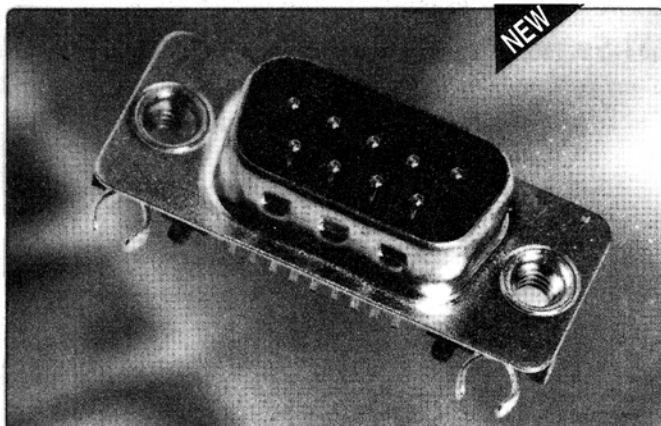
4 .....Metal covered .276" (7.00mm) low profile  
5 .....Metal covered .472" (12.00mm) high profile  
6 .....Metal covered machined contacts low profile

### MOUNTING OPTION

1 ......125" (3.18mm) dia. through-hole  
2 .....#4-40 UNC threaded inserts  
3 .....#4-40 UNC threaded standoffs  
6 .....#4-40 UNC threaded insert with boardlocks  
7 .....#4-40 UNC threaded standoff with boardlocks  
8 .....#4-40 UNC threaded fixed standoffs

### ORDERING CODE

Series + Total Contacts + Plating Code + Contact Code + Edac Internal Use + Body Style + Mounting Option = Ordering Code  
Example: 627-025-2-20-0-4-7



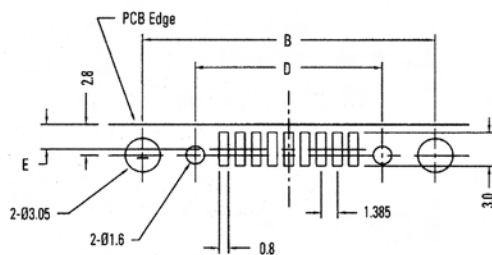
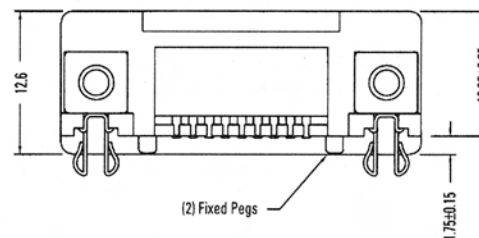
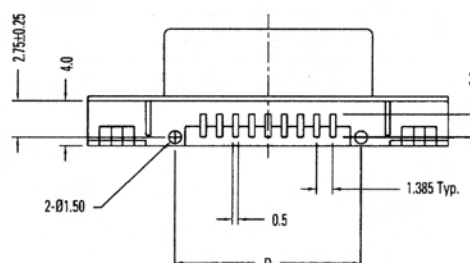
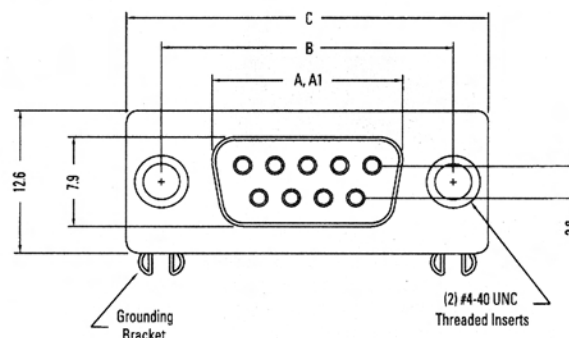
## K20HT and K202HT Series Right Angle, Surface Mount

### Ordering Information

K20HT	-	E9P	-	N	
Series		Configuration		Mounting Options	Plating Options
<b>Series</b>					
K20HT - Kycon D-Subminiature Connector, Right Angle, Ultra Short Footprint, Surface Mount					
K202HT - Kycon D-Subminiature Connector, Right Angle, Ultra Short Footprint, Surface Mount, Modified PCB Layout					
<b>Configuration</b>					
K20HT					
E9P - 9 Pin Male (Plug)					
B25S - 25 Pin Female (Socket)					
K202HT					
E9S - 9 Pin Female (Socket)					
<b>Mounting Options</b>					
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					
<b>Plating Options and Performance Specifications (see page 4)</b>					

## K20 and K202 Series Dimensions

Dimensions in mm



Recommended PCB Layout  
(Top View)

Shell Size	In mm	A	A1	B	C	D	E
		±.010 ±0.25	±.010 ±0.25	±.005 ±0.13	±.015 ±0.38	±.005 ±0.13	±.005 ±0.13
K20HT-E9P-N	-	.666 16.92	.984 24.99	1.213 30.81	.708 17.98	.128 3.25	
K20HT-B25S-N	1.511 38.38	-	1.852 47.04	2.088 53.04	1.58 40.14	.128 3.25	
K202HT-E9S-N	.643 16.33	-	.984 24.99	1.213 30.81	.626 15.90	.087 2.20	

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