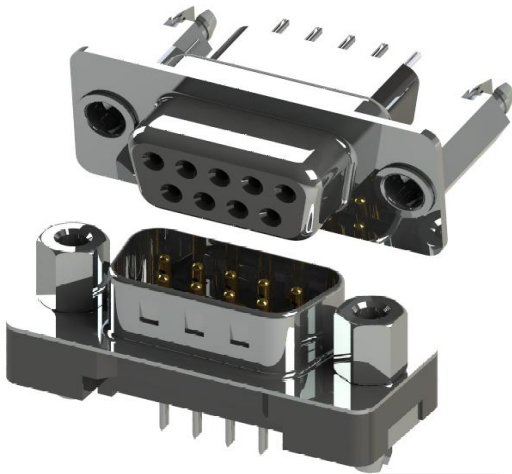




# SERIES 627/628: D-SUB CONNECTOR

Plug and Receptacle, Vertical, PCB Mount, *Plastic Body*

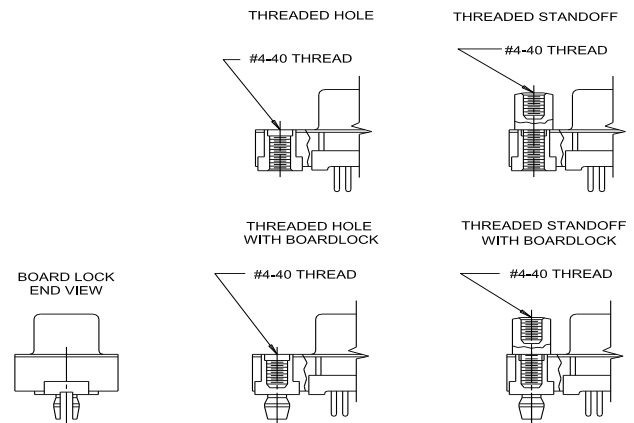


- Low Profile Only
- .109"(2.77mm) Contact Spacing x .112"(2.84mm) Row Spacing
- Plug and Receptacle in 9, 15, 25 and 37 Contact Sizes
- Pin and Socket Contact Mating Design with P.C. Tail Termination
- Metal Shell Provides EMI/RFI Shielding, Plug Shell Indents provide Grounding and Additional Mating Retention
- Grounding Feature include Boardlock for Exceptional Retention to P.C. Board
- Flange Mounting Options for Panel Mount or Connector Mating include Threaded Hole and Threaded Standoff
- D-Shaped Connector Mating Outline provides Polarization
- Design based on Requirements of MIL-C-24038, EIA RS-232 and RS-449
- IDC Type - Contact Customer Service at [customerservice@edac.net](mailto:customerservice@edac.net)
- High Temp Insulator - Contact Customer Service at [customerservice@edac.net](mailto:customerservice@edac.net)

## Specifications:

|                       |                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------|
| Insulator Material    | Thermoplastic Polyester, UL 94V-0, Chemical Resistant, Color: Black                           |
| Contact Material      | Plug (Pins): Brass<br>Receptacle (Socket): Brass                                              |
| Contact Plating       | Selective Gold (See Ordering Code) over Nickel for the Mating Area, Tin Plating for Tail Area |
| Ferrite Specs:        | 20dB MIN @30 MHz, 30dB MIN @50 MHz, and 50dB MIN @100 MHz                                     |
| Shell Material        | Nickel Plated Steel (Optional Tin Plating)                                                    |
| Current Rating        | 3A Per Contact                                                                                |
| Contact Resistance    | 25 Milliohms MAX                                                                              |
| Insulation Resistance | 5000 Megaohms MIN                                                                             |
| Dielectric Voltage    | 1000V AC rms at Sea Level                                                                     |
| Operating Temp.       | -55°C To +85°C                                                                                |
| Mating Force          | 16 oz (4.45N) Maximum Per Contact Position                                                    |
| Unmating Force        | 1 oz (0.28N) Minimum Per Contact Position                                                     |

## FLANGE MOUNTING OPTIONS



## Ordering Code:

627-025-220-013

SERIES: \_\_\_\_\_  
627: PLUG (PIN)  
628: RECEPTACLE (SOCKET)

NO. OF CONTACTS: \_\_\_\_\_  
009 - 9 CONTACTS    025 - 25 CONTACTS  
015 - 15 CONTACTS    037 - 37 CONTACTS

CONTACT FINISH CODE: \_\_\_\_\_  
2 - GOLD FLASH PLATING  
3 - 15 MICROINCHES OF GOLD PLATING  
6 - 30 MICROINCHES OF GOLD PLATING

CONTACT CODE: \_\_\_\_\_  
20 - .105"(2.67mm) TO .160"(4.06mm) PC TAIL  
24 - .169"(4.30mm) TO .189"(4.80mm) PC TAIL  
26 - PRESS FIT CONTACT  
27 - IDC

FLANGE MOUNTING OPTIONS:  
2 - #4-40 THREADED HOLE  
3 - #4-40 THREADED STANDOFF  
6 - #4-40 THREADED HOLE WITH BOARDLOCKS  
7 - #4-40 THREADED STANDOFF WITH BOARDLOCKS

PROFILE:  
1 - LOW PROFILE

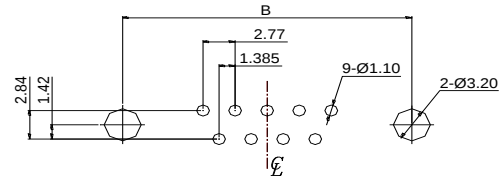
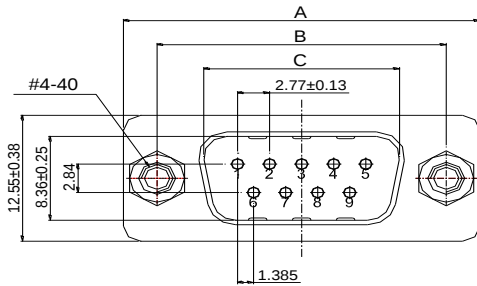
MATERIAL CODE:  
0 - STANDARD



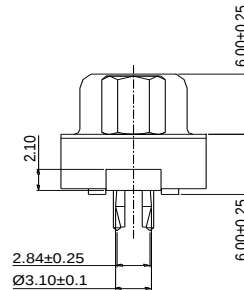
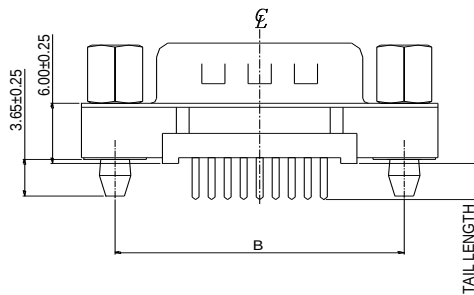
# SERIES 627/628: D-SUB CONNECTOR

Plug and Receptacle, Vertical, PCB Mount, *Plastic Body*

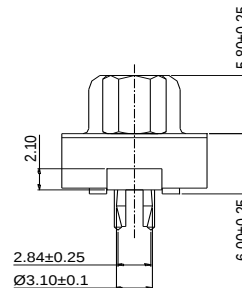
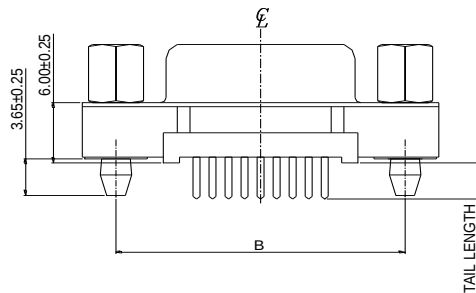
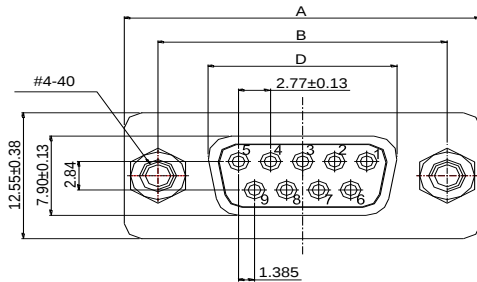
## PLUG 627 SERIES



Recommended PCB Layout  
(Plug and Receptacle)



## RECEPTACLE 628 SERIES

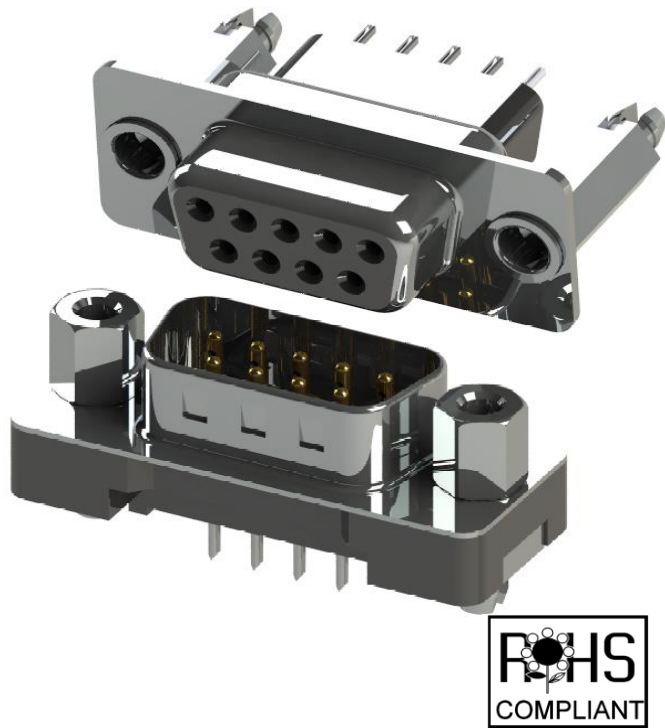


| NUMBER OF CONTACTS | A±0.38 |         | B±0.25 |         | C±0.25 PLUG |         | D±0.13 RECEPTACLE |         |
|--------------------|--------|---------|--------|---------|-------------|---------|-------------------|---------|
|                    | Inch   | (mm)    | Inch   | (mm)    | Inch        | (mm)    | Inch              | (mm)    |
| 9                  | 1.213  | (30.81) | .984   | (24.99) | .666        | (16.92) | .643              | (16.33) |
| 15                 | 1.543  | (39.19) | 1.312  | (33.32) | .994        | (25.25) | .971              | (24.66) |
| 25                 | 2.088  | (53.04) | 1.852  | (47.04) | 1.534       | (38.96) | 1.534             | (38.96) |
| 37                 | 2.729  | (69.32) | 2.500  | (63.50) | 2.182       | (55.42) | 2.159             | (54.84) |



# SERIES 627/628: D-SUB CONNECTOR

Plug and Receptacle, Vertical, PCB Mount, *Metal Body*



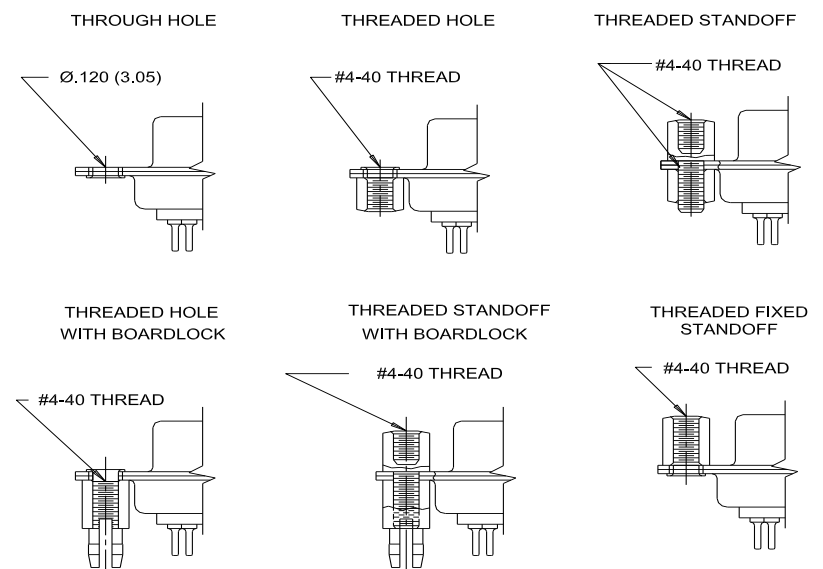
- Both Low and High Profiles are available
- .109"(2.77mm) Contact Spacing x .112"(2.84mm) Row Spacing
- Plug and Receptacle in 9, 15, 25, 37 or 50 Contact Sizes
- Pin and Socket Contact Mating Design with P.C. Tail Termination
- Metal Shell Provides EMI/RFI Shielding, Plug Shell Indents provide Grounding and Additional Mating Retention
- Grounding Feature include Boardlock for Exceptional Retention to P.C. Board
- Mounting Options for Panel Mount or Connector Mating include Through Hole, Threaded Hole and Threaded Standoffs
- D-Shaped Connector Mating Outline provides Polarization
- Design based on Requirements of MIL-C-24038, EIA RS-232 and RS-449
- IDC Type - Contact Customer Service at [customerservice@edac.net](mailto:customerservice@edac.net)



## Specifications:

|                       |                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------|
| Insulator Material    | Thermoplastic Polyester, UL 94V-0, Chemical Resistant, Color: Black                           |
| Contact Material      | Plug (Pins): Brass<br>Receptacle (Socket): Brass                                              |
| Contact Plating       | Selective Gold (See Ordering Code) over Nickel for the Mating Area, Tin Plating for Tail Area |
| Ferrite Specs:        | 20dB MIN @30 MHz, 30dB MIN @50 MHz, and 50dB MIN @100 MHz                                     |
| Shell Material        | Nickel Plated Steel (Optional Tin Plating)                                                    |
| Current Rating        | 3A - 5A Per Contact                                                                           |
| Contact Resistance    | 25 Milliohms MAX                                                                              |
| Insulation Resistance | 1000 Megaohms MIN                                                                             |
| Dielectric Voltage    | 1000V AC rms at Sea Level                                                                     |
| Operating Temp.       | -55°C To +85°C                                                                                |
| Mating Force          | 16 oz (4.45N) Maximum Per Contact Position                                                    |
| Unmating Force        | 1 oz (0.28N) Minimum Per Contact Position                                                     |

## FLANGE MOUNTING OPTIONS



## Ordering Code:

627-025-220-043

SERIES:  
627: PLUG (PIN)  
628: RECEPTACLE (SOCKET)

NO. OF CONTACTS:  
009 - 9 CONTACTS    025 - 25 CONTACTS  
015 - 15 CONTACTS    037 - 37 CONTACTS  
050 - 50 CONTACTS (LOW PROFILE ONLY)

CONTACT FINISH CODE:  
2 - GOLD FLASH PLATING  
3 - 15 MICROINCHES OF GOLD PLATING  
6 - 30 MICROINCHES OF GOLD PLATING

TERMINATION:  
010 - CRIMP AND LOAD (CABLE ASSEMBLY)

CONTACT CODE:  
20 - LOW PROFILE:  
0.189"± 0.020" (4.80±0.50mm) PC TAIL (PLUG ONLY)  
0.181"± 0.020" (4.60±0.50mm) PC TAIL (RECEPTACLE ONLY)  
21 - HIGH PROFILE:  
0.122"± 0.015" (3.10±0.38mm) PC TAIL (PLUG ONLY)  
0.165"± 0.015" (4.20±0.38mm) PC TAIL (RECEPTACLE ONLY)  
22 - SOLDER CUP  
26 - PRESS FIT CONTACT  
28 - 0.110" (2.80mm) PC TAIL WITH FERRITE FILTER

FLANGE MOUNTING OPTIONS:  
0 - NO CONTACTS (CRIMP AND LOAD ONLY)  
1 - Ø.120"(Ø3.05MM) THROUGH HOLE  
2 - #4-40 THREADED HOLE  
3 - #4-40 THREADED STANDOFF  
6 - #4-40 THREADED HOLE WITH BOARDLOCKS  
7 - #4-40 THREADED STANDOFF WITH BOARDLOCKS  
8 - #4-40 THREADED FIXED STANDOFF

GROUNDING FEATURE:    CRIMP AND LOAD TERMINATION ONLY:  
4 - LOW PROFILE    0 - NO HARDWARE  
5 - HIGH PROFILE    1 - .098"(2.49mm) CLINCH NUT (BOARDSIDE)  
                                 2 - .236"(6.00mm) CLINCH NUT (BOARDSIDE)  
                                 3 - .236"(6.00mm) CLINCH NUT (MATING SIDE)

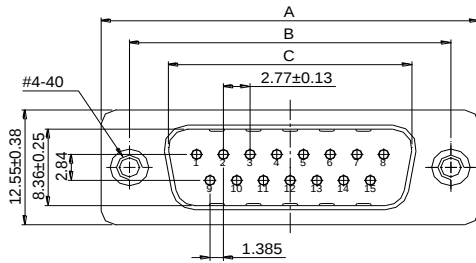
MATERIAL CODE:    CRIMP AND LOAD TERMINATION ONLY:  
0 - STANDARD    2 - TIN PLATED SHELL  
5 - HIGH TEMP INSULATOR    3 - NICKEL PLATED SHELL



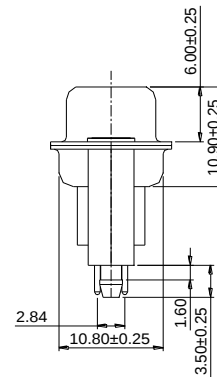
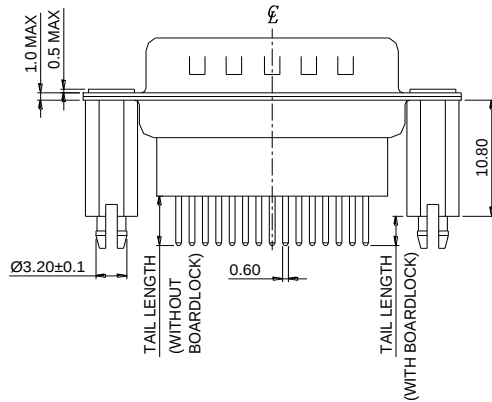
# SERIES 627/628: D-SUB CONNECTOR

Plug and Receptacle, Vertical, PCB Mount, *Metal Body*

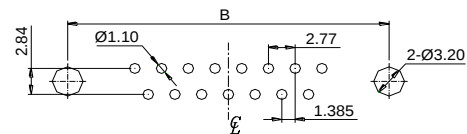
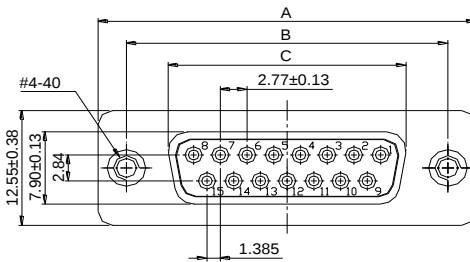
## PLUG 627 SERIES



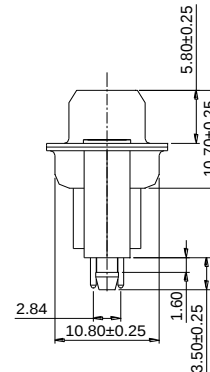
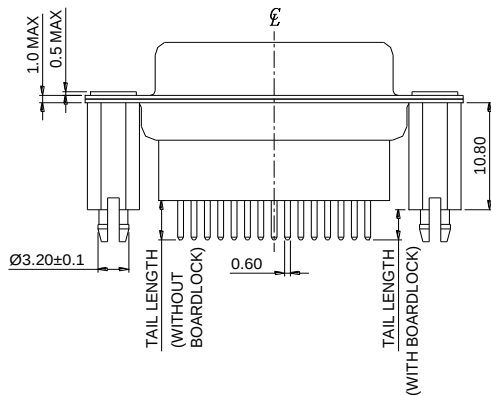
| NUMBER OF CONTACTS | A±0.38 |         | B±0.25 |         | C±0.13 PLUG |         | C±0.13 RECEPTACLE |         |
|--------------------|--------|---------|--------|---------|-------------|---------|-------------------|---------|
|                    | Inch   | (mm)    | Inch   | (mm)    | Inch        | (mm)    | Inch              | (mm)    |
| 9                  | 1.213  | (30.81) | .984   | (24.99) | .666        | (16.92) | .643              | (16.33) |
| 15                 | 1.543  | (39.19) | 1.312  | (33.32) | .994        | (25.25) | .971              | (24.66) |
| 25                 | 2.088  | (53.04) | 1.852  | (47.04) | 1.534       | (38.96) | 1.511             | (38.38) |
| 37                 | 2.729  | (69.32) | 2.500  | (63.50) | 2.182       | (55.42) | 2.159             | (54.84) |



## RECEPTACLE 628 SERIES



RECOMMENDED P.C.B. LAYOUT  
FOR PLUG AND RECEPTACLE

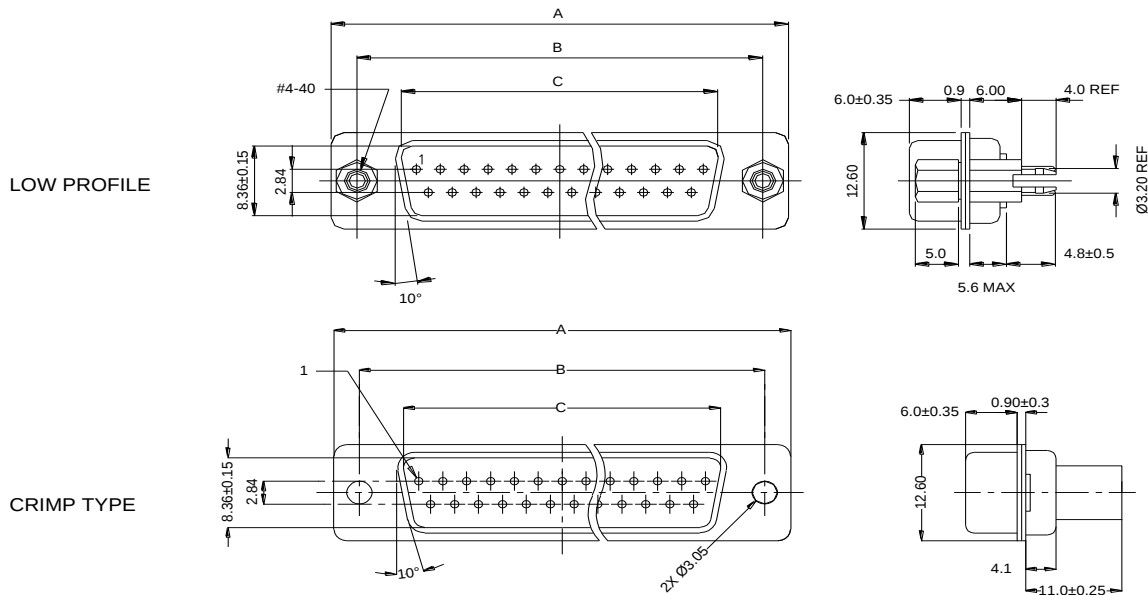




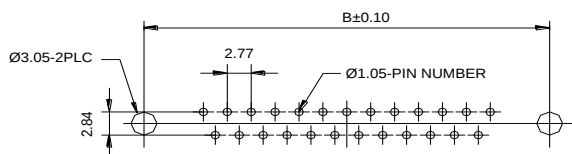
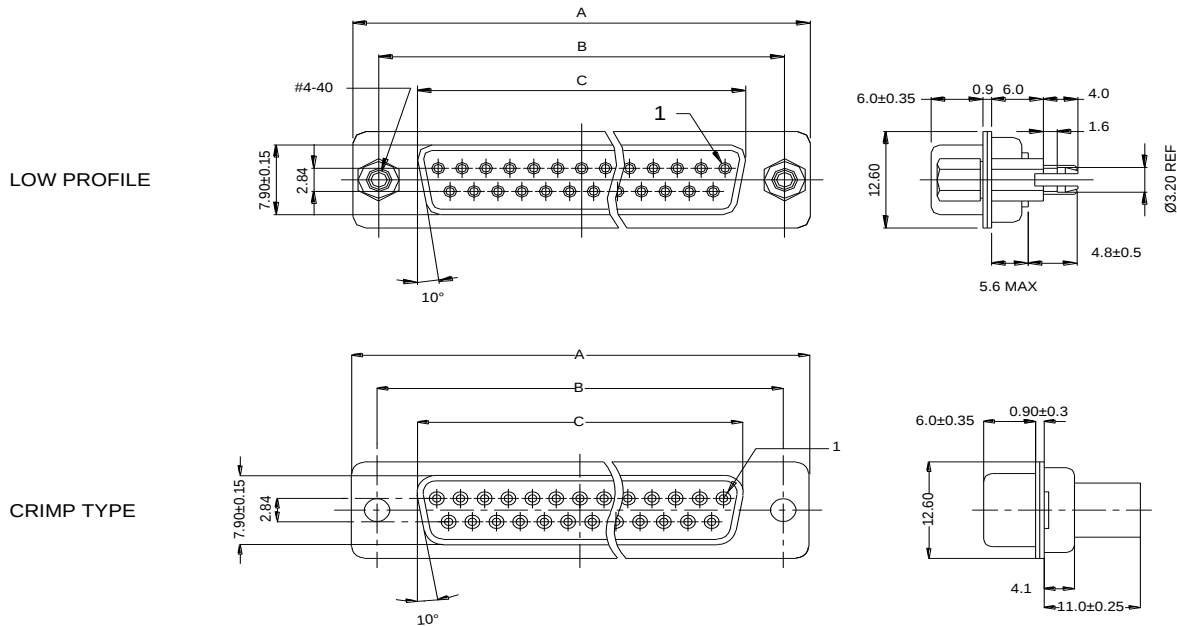
# SERIES 627/628: D-SUB CONNECTOR

Plug and Receptacle, Vertical, PCB Mount, *Metal Body*

## PLUG 627 SERIES



## RECEPTACLE 628 SERIES



Recommended PCB Layout  
(Plug and Receptacle)

| NUMBER OF<br>CONTACTS | A±0.35 |         | B±0.10 |         | C±0.15<br>PLUG |         | C±0.15<br>RECEPTACLE |         |
|-----------------------|--------|---------|--------|---------|----------------|---------|----------------------|---------|
|                       | Inch   | (mm)    | Inch   | (mm)    | Inch           | (mm)    | Inch                 | (mm)    |
| 9                     | 1.213  | (30.80) | .984   | (24.99) | .666           | (16.92) | .642                 | (16.30) |
| 15                    | 1.541  | (39.15) | 1.312  | (33.32) | .994           | (25.25) | .970                 | (24.65) |
| 25                    | 2.087  | (53.00) | 1.852  | (47.04) | 1.534          | (38.96) | 1.512                | (38.40) |
| 37                    | 2.728  | (69.30) | 2.500  | (63.50) | 2.182          | (55.42) | 2.157                | (54.80) |
| 50                    | 2.638  | (67.00) | 2.402  | (61.00) | 2.079          | (52.80) | 2.055                | (52.20) |