

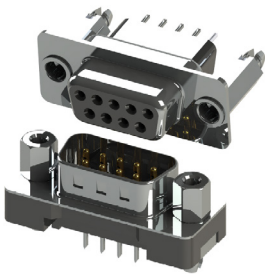
# 627/628 SERIES



## D-Sub Connectors: Vertical, Plastic Body

### Features:

- 0.109"(2.77mm) contact spacing x 0.112"(2.84mm) row spacing
- Standard profile 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 features include boardlocks 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



### 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 |
| Shell Material                  | Nickel Plated Steel (Optional Tin Plating)                                                    |
| Current Rating                  | 3 amps                                                                                        |
| Contact Resistance              | 25 Milliohms maximum                                                                          |
| Insulation Resistance           | 5000 megaohms minimum                                                                         |
| Dielectric Withstanding Voltage | 1000 V AC rms at Sea Level                                                                    |
| Operating Temperature           | -55°C To +85°C                                                                                |
| Insertion Force                 | 16 oz (4.45 N) Maximum Per Contact Position                                                   |
| Withdrawal Force                | 1 oz (0.28 N) Minimum Per Contact Position                                                    |

### 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

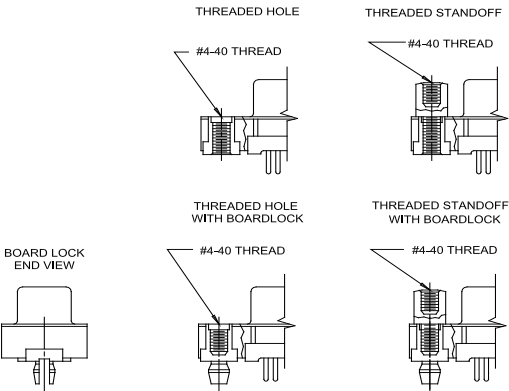
CONTACT CODE: \_\_\_\_\_  
20 - .105"(2.67mm) TO .160"(4.06mm) PC TAIL  
24 - .169"(4.30mm) TO .189"(4.80mm) PC TAIL  
26 - PRESS FIT CONTACT  
27 - IDC

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

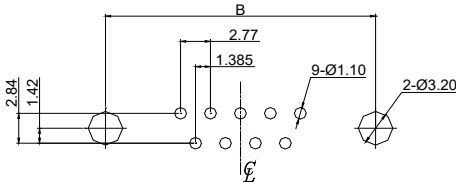
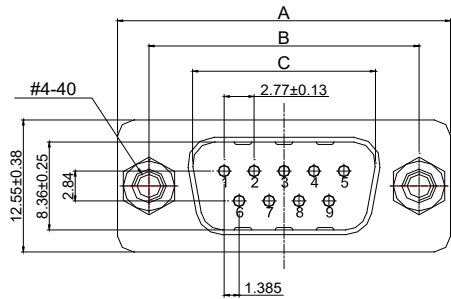
PROFILE:  
1 - STANDARD PROFILE

SHELL PLATING:  
0 - NICKEL PLATED SHELL  
2 - TIN PLATED SHELL

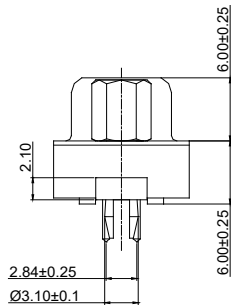
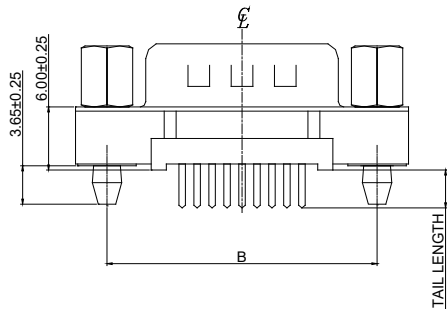
### FLANGE MOUNTING OPTIONS



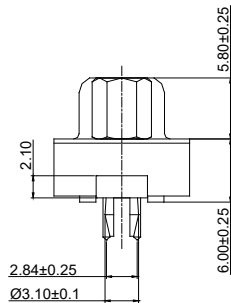
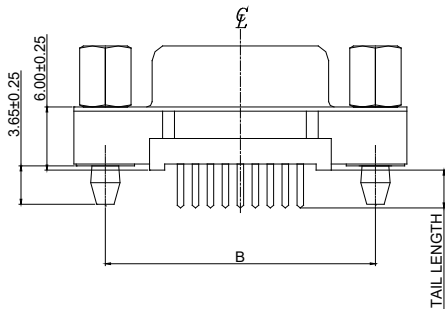
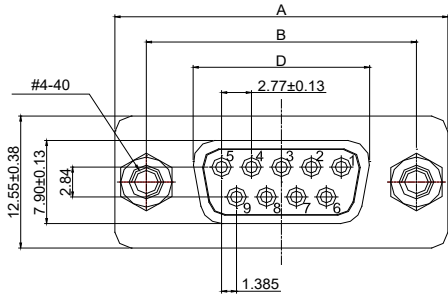
PLUG 627 SERIES



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) |

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