



# SERIES 637/638: HD D-SUB CONNECTOR

Plug and Receptacle, Vertical High Density, PCB Mount, Metal Body

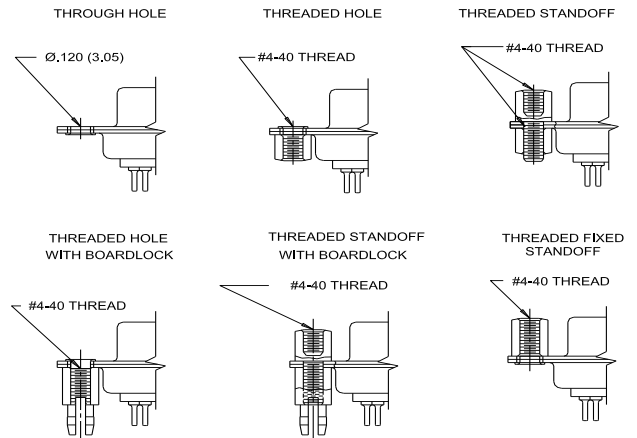


- Plug and Receptacle in 15, 26, 44, 62 or 78 Contact Sizes
- Pin and Socket Contact Mating Design with P.C. Tail Termination
- Metal Shell Provides EMI/RFI Shielding, Plug Shell Indents provide Grounding and Additional Mating Retention
- Grounding Features include Boardlock for Exceptional Retention 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
- High Profile available in Receptacle only

## Specifications:

Insulator Material	<b>PBT WITH GLASS FIBER, UL 94V-0, Color: Black</b>
Contact Material	<b>Plug (Pins): Brass Receptacle (Socket): Brass or Phosphor Bronze</b>
Contact Plating	<b>Selective Gold (See Ordering Code) over Nickel for the Mating Area, Tin Plating for Tail Area</b>
Shell Material	<b>Tin, Nickel or Zinc Plated Steel</b>
Current Rating	<b>5A Per Contact</b>
Contact Resistance	<b>15 Milliohms MAX</b>
Insulation Resistance	<b>1000 Megaohms MIN</b>
Dielectric Voltage	<b>500V AC rms at Sea Level</b>
Operating Temp.	<b>-50°C To +100°C</b>
Mating Force	<b>16 oz (4.45N) Maximum Per Contact Position</b>
Unmating Force	<b>1 oz (0.28N) Minimum Per Contact Position</b>

## FLANGE MOUNTING OPTIONS



## Ordering Code:

**637-015-230-047**

**SERIES:** \_\_\_\_\_  
 637: PLUG (PIN)  
 638: RECEPTACLE (SOCKET)

**NO. OF CONTACTS:** \_\_\_\_\_  
 015 - 15 CONTACTS    026 - 26 CONTACTS  
 044 - 44 CONTACTS    062 - 62 CONTACTS  
 078 - 78 CONTACTS

**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:** \_\_\_\_\_  
 30 - LOW PROFILE P.C.B. TAIL  
 31 - HIGH PROFILE P.C.B. TAIL  
 32 - SOLDER CUP

**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:**  
 0 - NO HARD WARE (CRIMP AND LOAD ONLY)  
 4 - LOW PROFILE  
 5 - HIGH PROFILE (638 ONLY)

**CRIMP AND LOAD TERMINATION ONLY:**  
 2 - TIN PLATED SHELL  
 3 - NICKEL PLATED SHELL  
 4 - ZINC PLATED SHELL

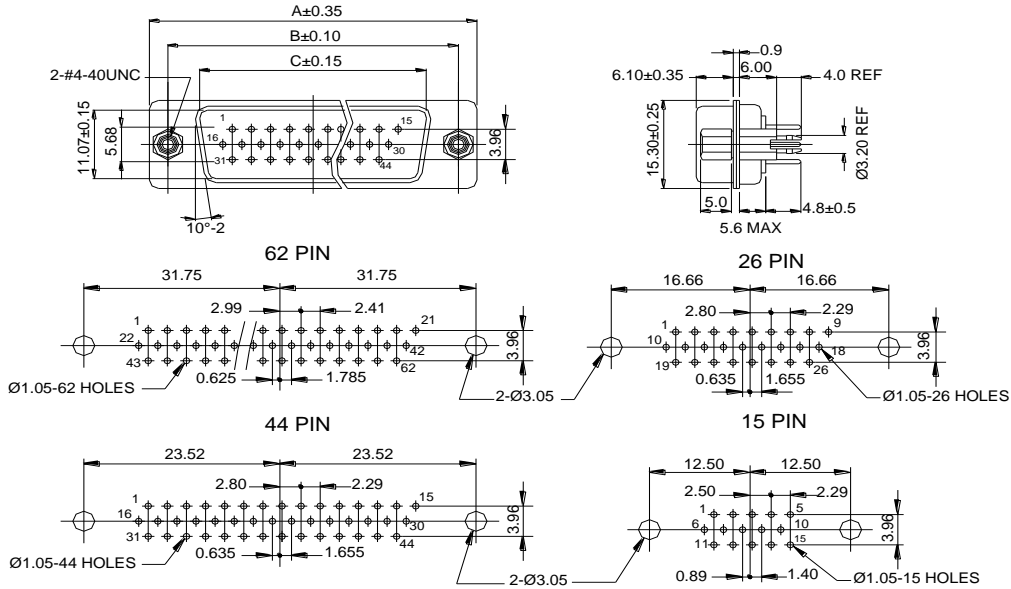


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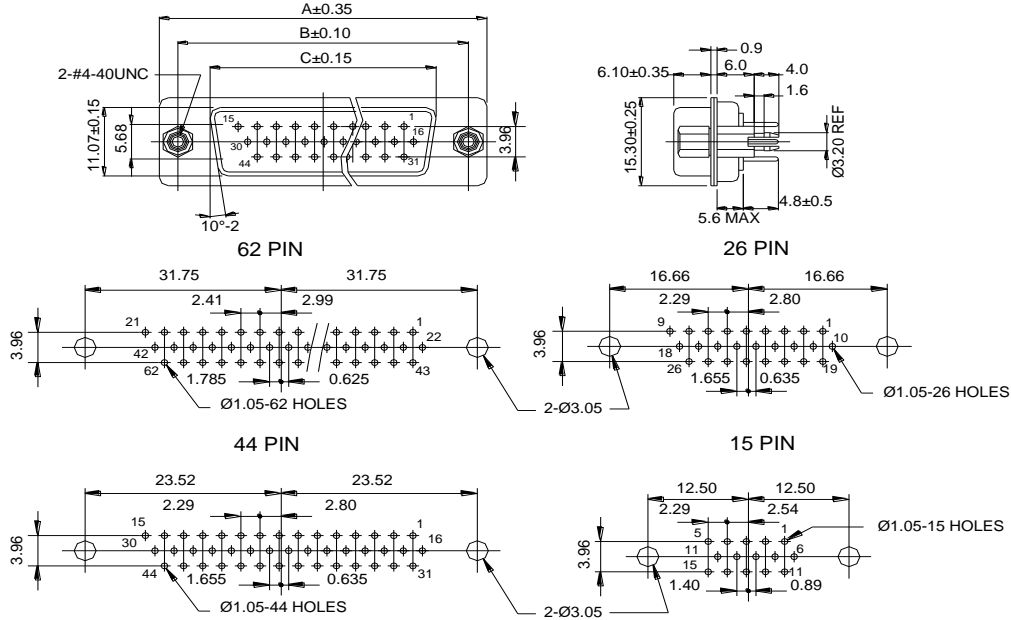
## LOW PROFILE

## PLUG 637 SERIES



## LOW PROFILE

## RECEPTACLE 638 SERIES



NUMBER OF CONTACTS	A		B		C PLUG		C RECEPTACLE	
	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)
15	1.213	(30.80)	.984	(24.99)	.666	(16.92)	.642	(16.30)
26	1.541	(39.15)	1.312	(33.32)	.994	(25.25)	.970	(24.65)
44	2.087	(53.00)	1.852	(47.04)	1.534	(38.96)	1.512	(38.40)
62	2.728	(69.30)	2.500	(63.50)	2.182	(55.42)	2.157	(54.80)

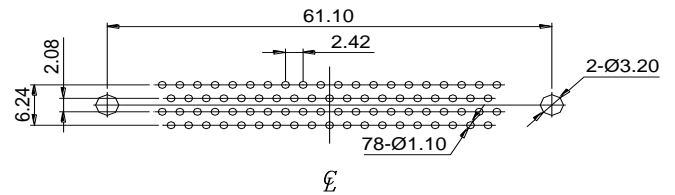
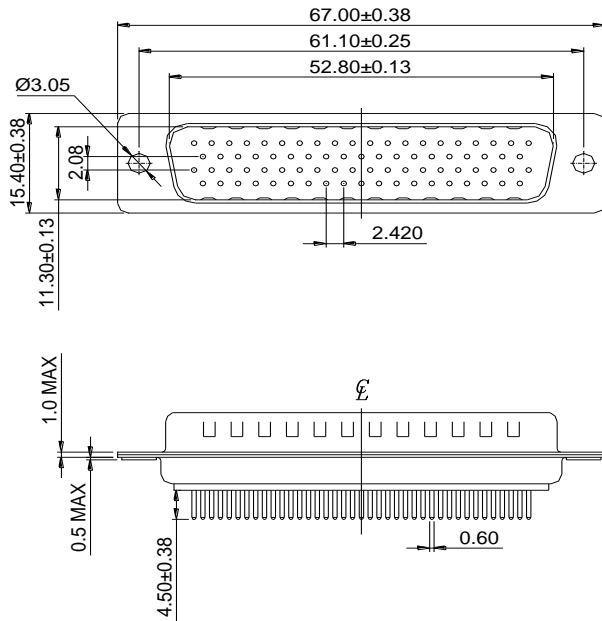


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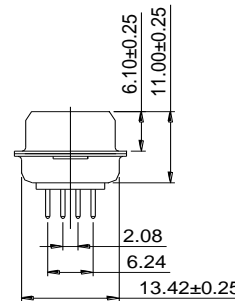
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## 78 PIN LOW PROFILE

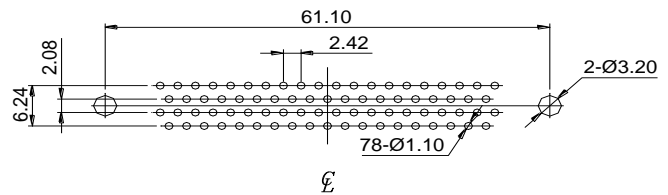
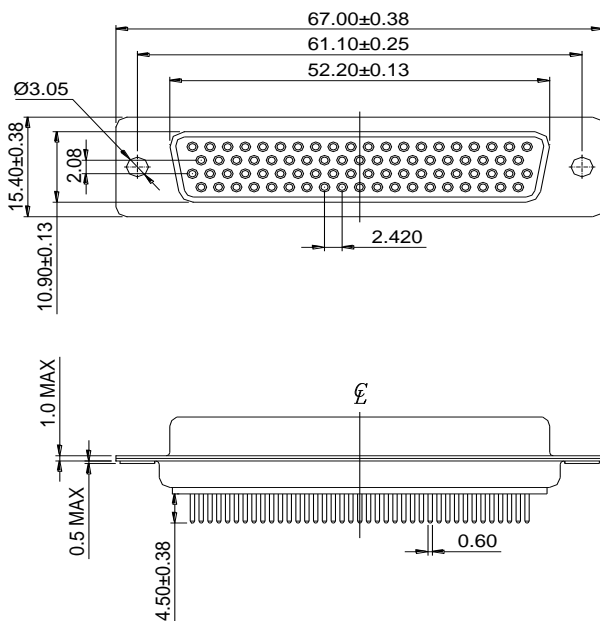
### PLUG 637 SERIES



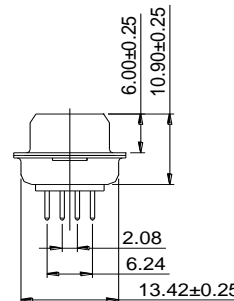
RECOMMENDED PCB LAYOUT



### RECEPTACLE 638 SERIES



RECOMMENDED PCB LAYOUT



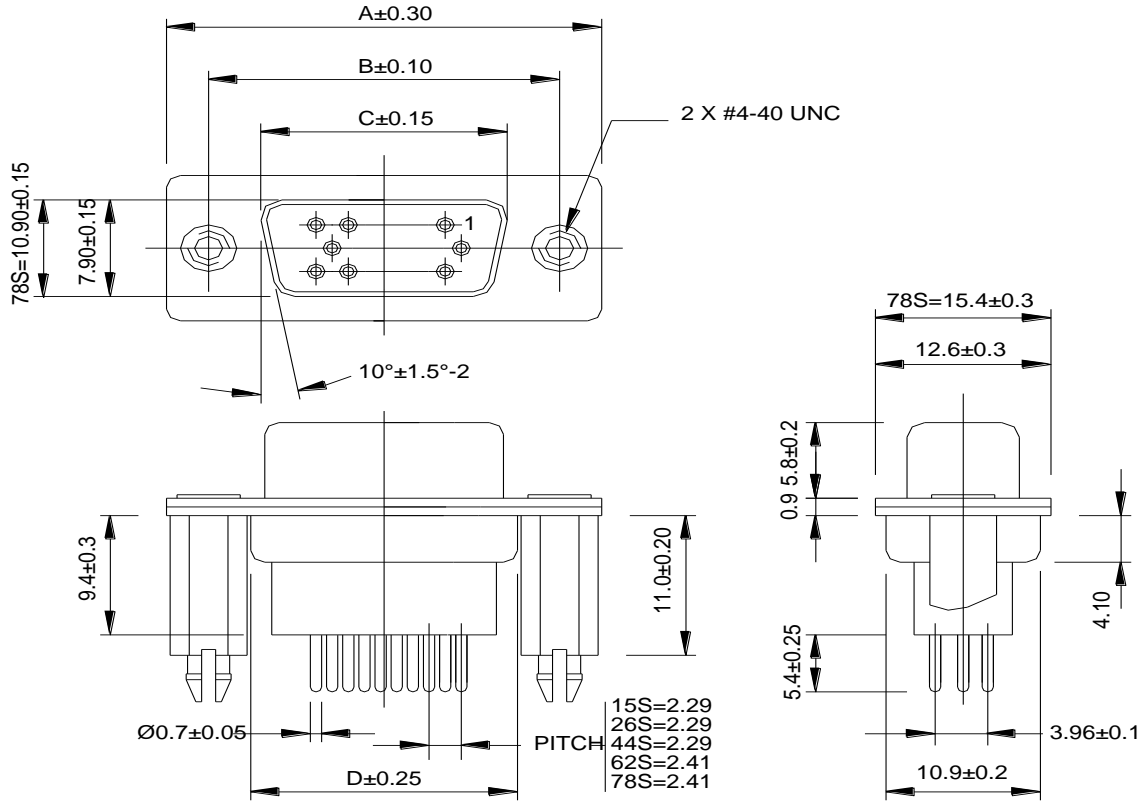


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## RECEPTACLE 638 SERIES

### HIGH PROFILE



NUMBER OF CONTACTS	A		B		C		D	
	Inch	(mm)	Inch	(mm)	Inch	(mm)	Inch	(mm)
15	1.213	(30.80)	.984	(24.99)	.643	(16.34)	.756	(19.20)
26	1.543	(39.20)	1.312	(33.32)	.972	(24.70)	1.091	(27.70)
44	2.087	(53.00)	1.852	(47.04)	1.512	(38.40)	1.618	(41.10)
62	2.732	(69.40)	2.500	(63.50)	2.157	(54.80)	2.256	(57.30)
78	2.638	(67.00)	2.406	(61.10)	2.055	(52.20)	2.169	(55.10)