



SERIES 637/638: HD D-SUB CONNECTOR

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

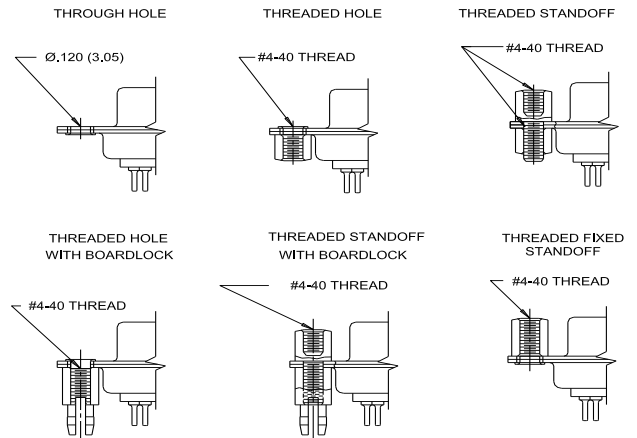


- Plug and Receptacle in 15, 26, 44, 62 or 78 Contact Sizes
- Pin and Socket Contact Mating Design with P.C. Tail Termination
- Metal Shell Provides EMI/RFI Shielding, Plug Shell Indents provide Grounding and Additional Mating Retention
- Grounding Features include Boardlock for Exceptional Retention 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	PBT WITH GLASS FIBER, UL 94V-0, Color: Black
Contact Material	Plug (Pins): Brass Receptacle (Socket): Brass or Phosphor Bronze
Contact Plating	Selective Gold (See Ordering Code) over Nickel for the Mating Area, Tin Plating for Tail Area
Shell Material	Tin, Nickel or Zinc Plated Steel
Current Rating	5A Per Contact
Contact Resistance	15 Milliohms MAX
Insulation Resistance	1000 Megaohms MIN
Dielectric Voltage	500V AC rms at Sea Level
Operating Temp.	-50°C To +100°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:

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

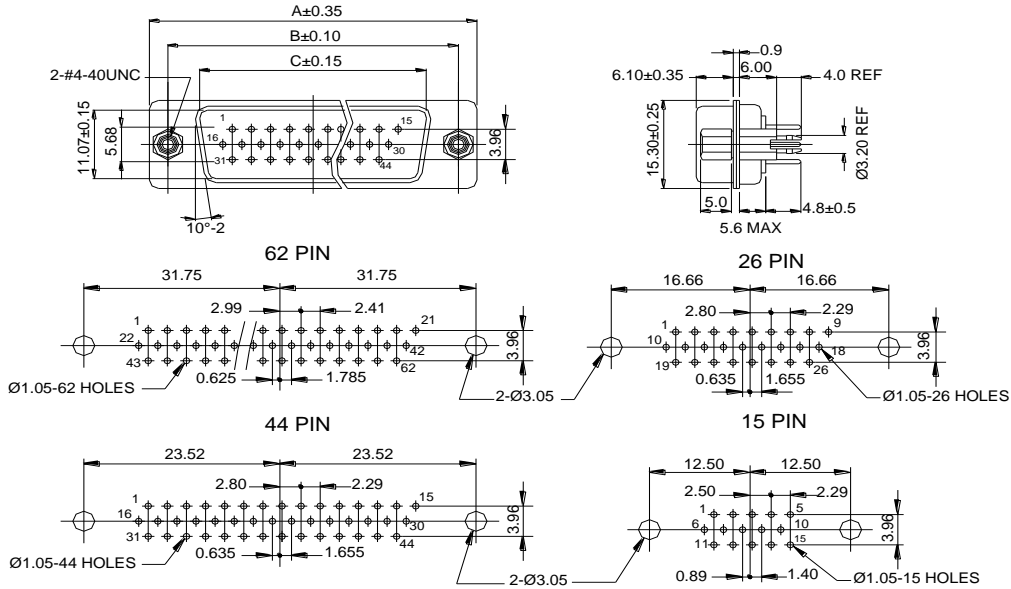


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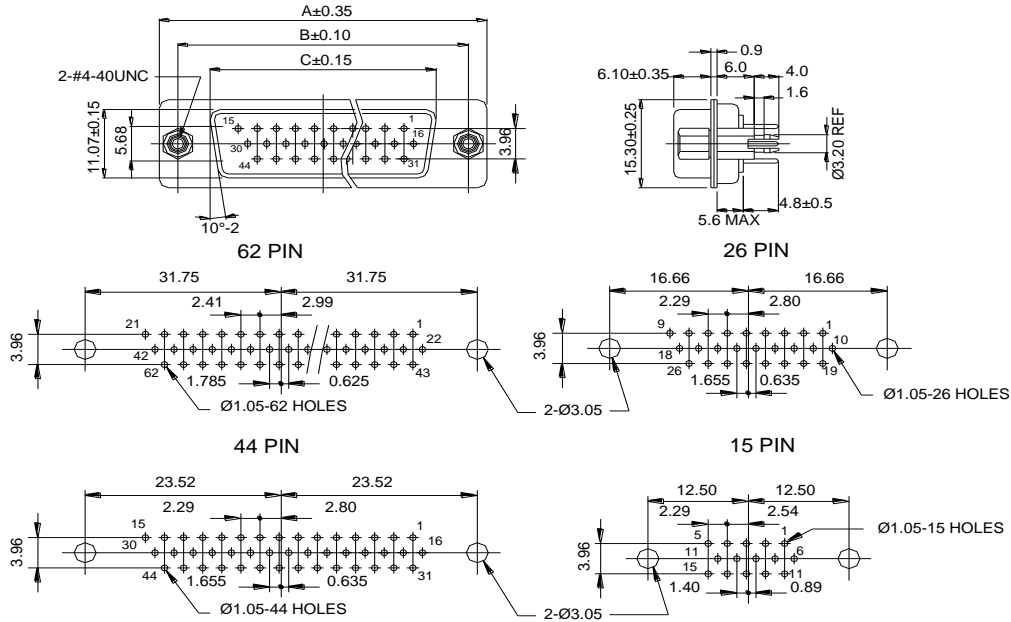
LOW PROFILE

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)

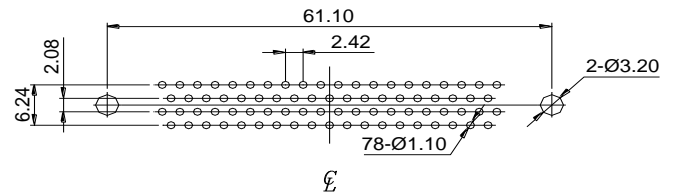
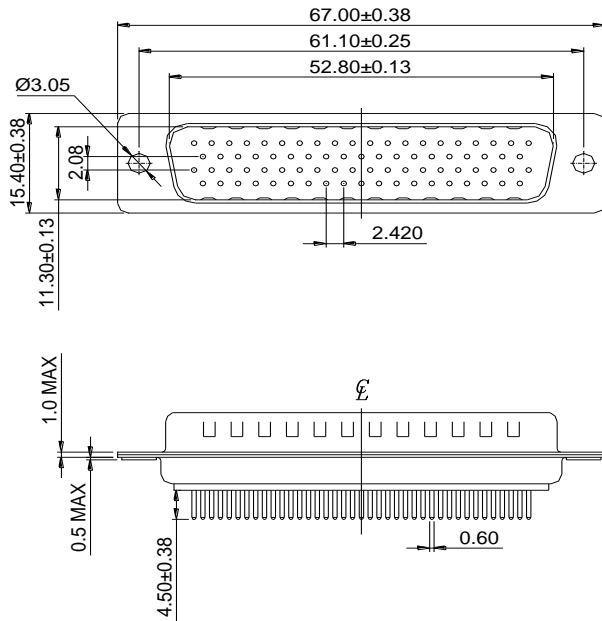


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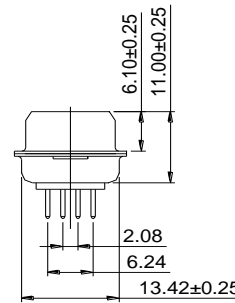
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78 PIN LOW PROFILE

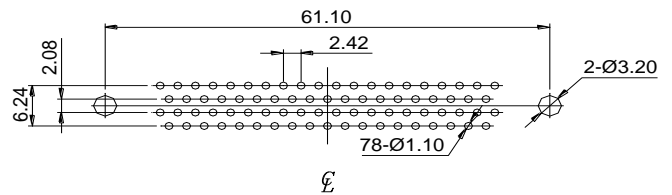
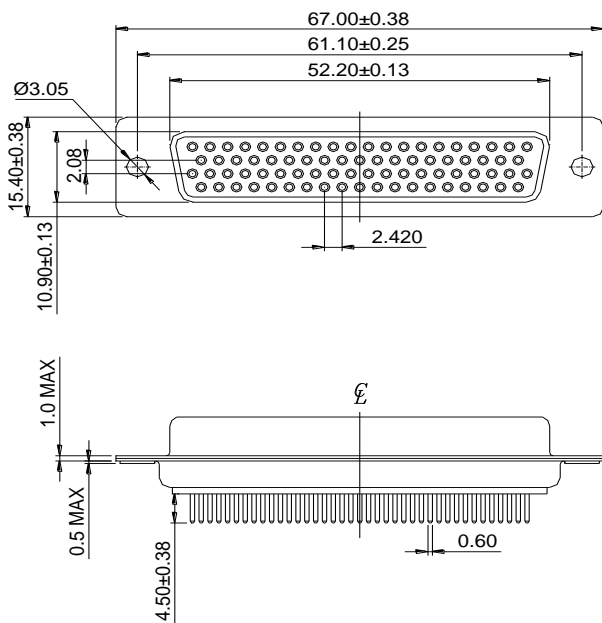
PLUG 637 SERIES



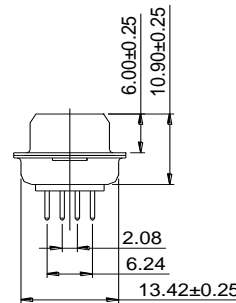
RECOMMENDED PCB LAYOUT



RECEPTACLE 638 SERIES



RECOMMENDED PCB LAYOUT



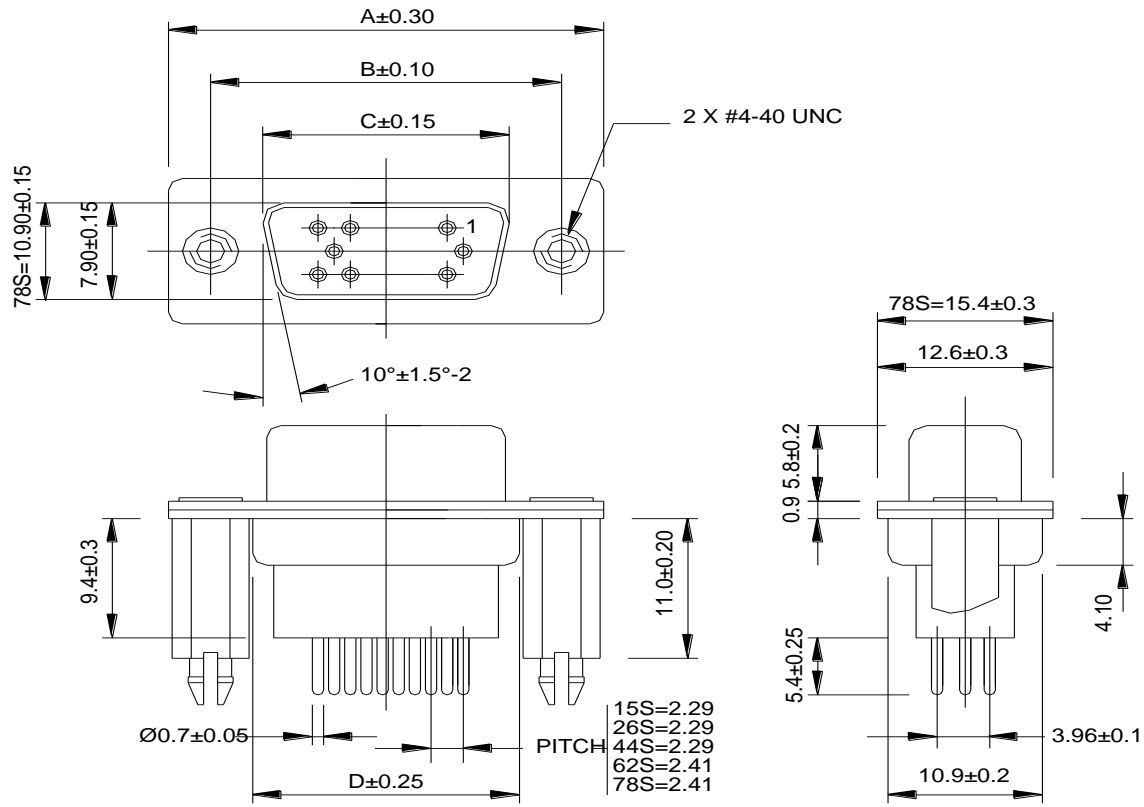


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RECEPTACLE 638 SERIES

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)

Mouser Electronics

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