



Sullins D-SUB

D-Sub Solder Type - 100 Series	01-02
D-Sub Dip Straight Type - 101 Series	03-04
D-Sub IDC Type - 103 Series	05-06
D-Sub HD Solder Type - 104 Series	07-08
D-Sub Right Angle Type - 107 Series	09-12
D-Sub H.D. Right Angle Type - 108 Series	13-14
D-Sub High Profile Straight Type - 155 Series	15-16
D-Sub H.D. High Profile PCB Type - 160 Series	17-18
D-Sub Right Angle Slim Type - 223 Series	19-20
D-Sub Right Angle Type - 224 Series	21-22



SPECIFICATIONS

Material

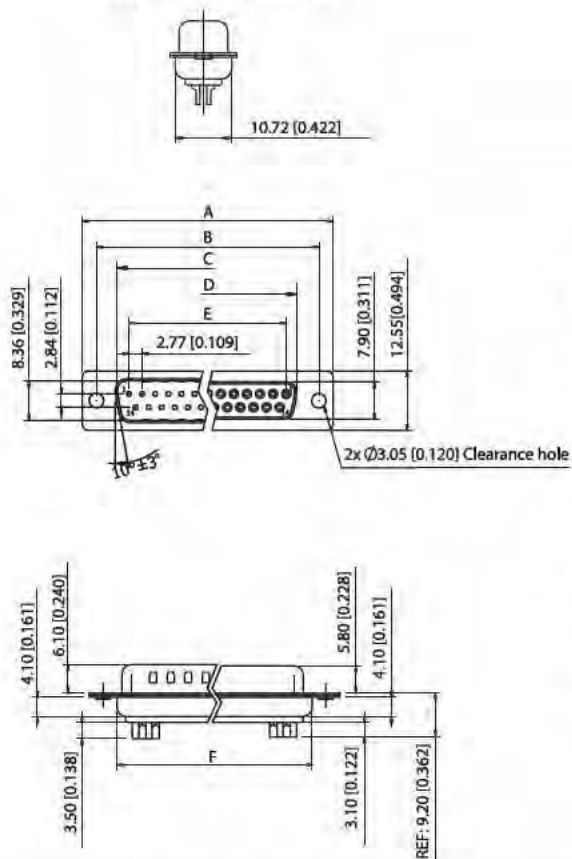
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

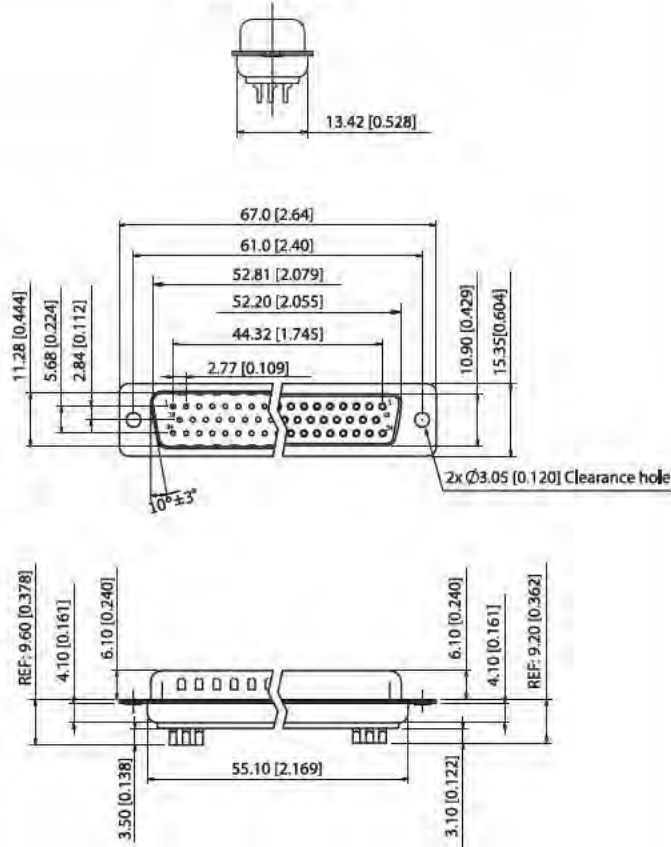
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS

9,15,25,37 Positions



50 Positions



Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

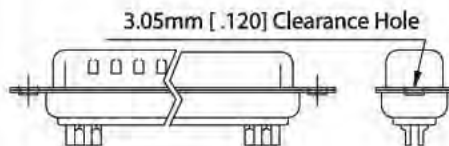


PART NUMBER OPTIONS

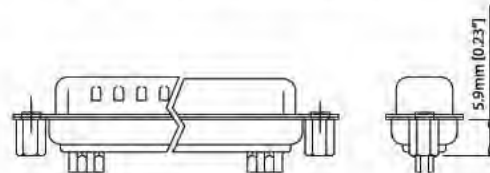
SDS100-PR - - -	
CONTACT PLATING (All Platings Have .000050" Nickel Underplate) W = Gold Flash On Contact Surface, .000100" Pure Tin On Termination. B = .000010" Gold On Contact Surface, .000100" Pure Tin On Termination. U = .000015" Gold On Contact Surface, .000100" Pure Tin On Termination. C = .000030" Gold On Contact Surface, .000100" Pure Tin On Termination.	INSULATOR COLOR 1. Black (Standard) 2. Blue 3. Green 6. White
SHELL PLATING 0. Cr ³ Yellow Chrome 1. Nickel 2. Tin (Standard) 3. Cr ⁶ Yellow Chrome 4. Gold Flash 5. Tin without Dimple 6. Cr ⁶ Yellow Chrome, With Dimple	POSITION OF CLINCH NUT (REFER TO BELOW FIGURE FOR DETAIL) 0. 3.05mm [.120] Clearance Hole 1. Front Rivet, 5.9mm[0.23] 2. Rear Rivet, 5.9mm[0.23] 3. Rivet+2 Prong Boardlock $\phi 3.2 \times 6.0$ L [0.13 x 0.24]
CONTACT TYPE M : MALE F : FEMALE	FLANGE MOUNTING OPTION 0. $\phi 3.05$ mm [$\phi .120$] Clearance Hole 1. #4-40 Female Thread 8. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39]) Female Screwlock Installed 9. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39]) Female Screwlock Bulk-Packed 4. M3 Female Thread 5. M3 (5.0 X 10.0mm [0.20 X 0.39]) Female Screwlock Installed
NO. OF PINS 09 : 09 POSITIONS 15 : 15 POSITIONS 25 : 25 POSITIONS 37 : 37 POSITIONS 50 : 50 POSITIONS	FERRITE N : Without Ferrite
	PIN TYPE S : STAMPED PIN M : MACHINED PIN

POSITION OF CLINCH NUT Consult sales or factory for other mounting style options

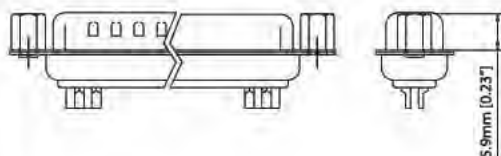
0. 3.05mm [.120] Clearance Hole



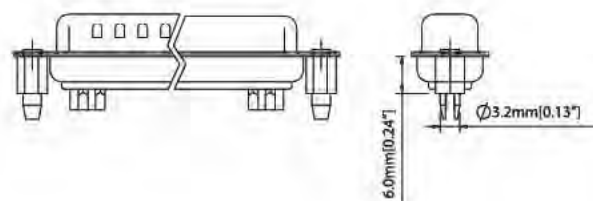
2. Rear Rivet, 5.9mm[0.23]



1. Front Rivet, 5.9mm[0.23]



3. Rivet+2 Prong Boardlock
 $\phi 3.2 \times 6.0$ L [0.13 x 0.24]





SPECIFICATIONS

Material

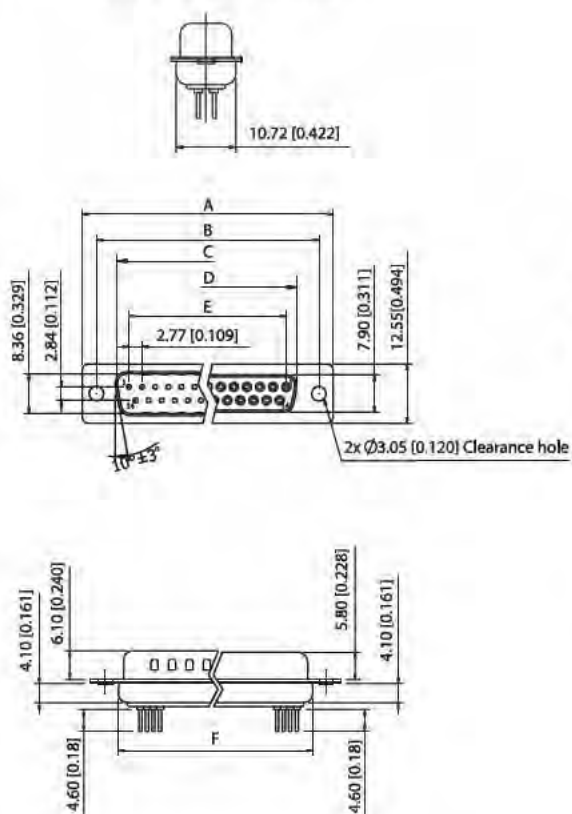
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

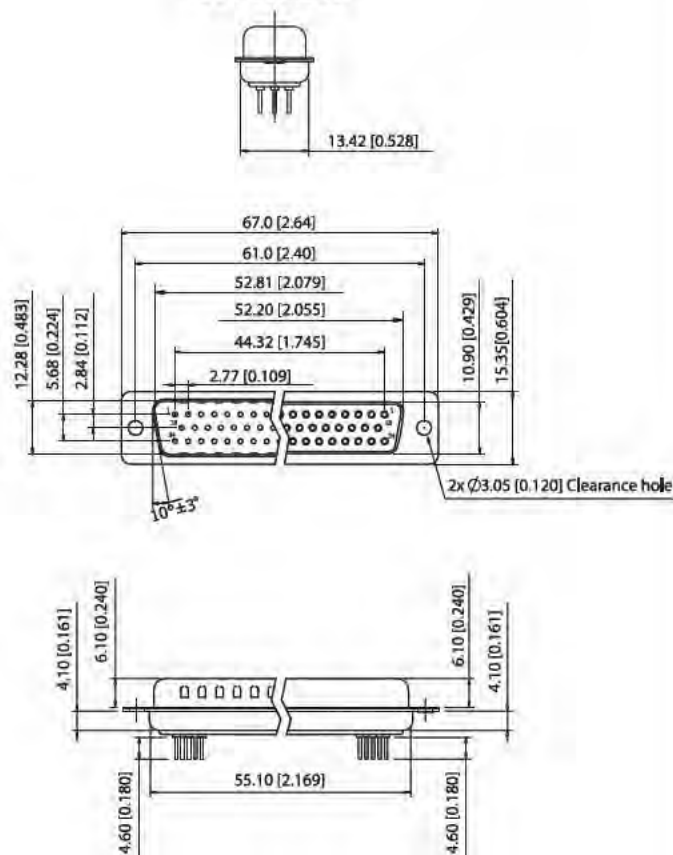
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS

9,15,25,37 Positions



50 Positions



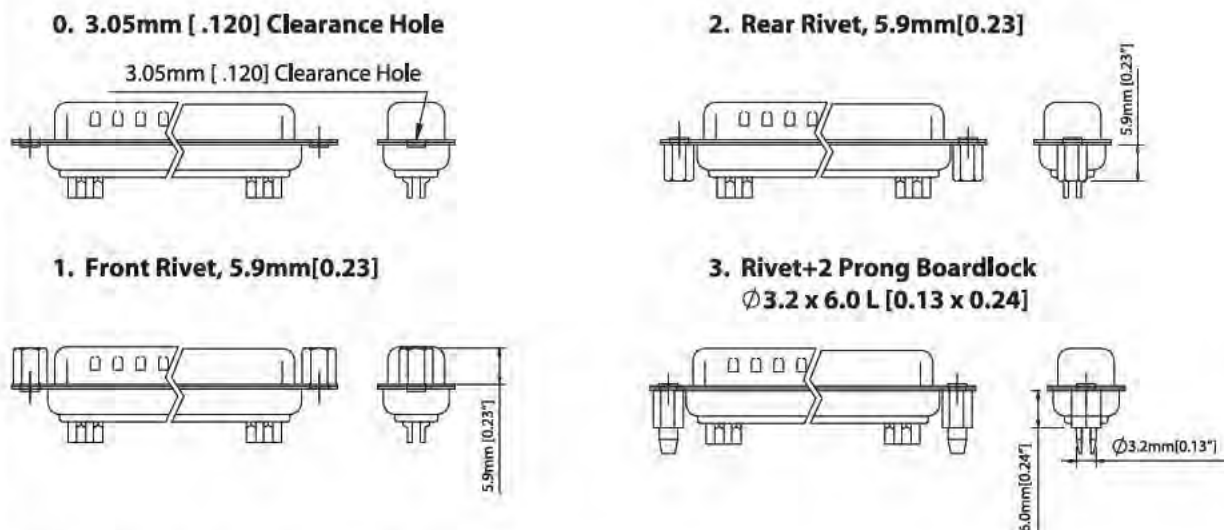
Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
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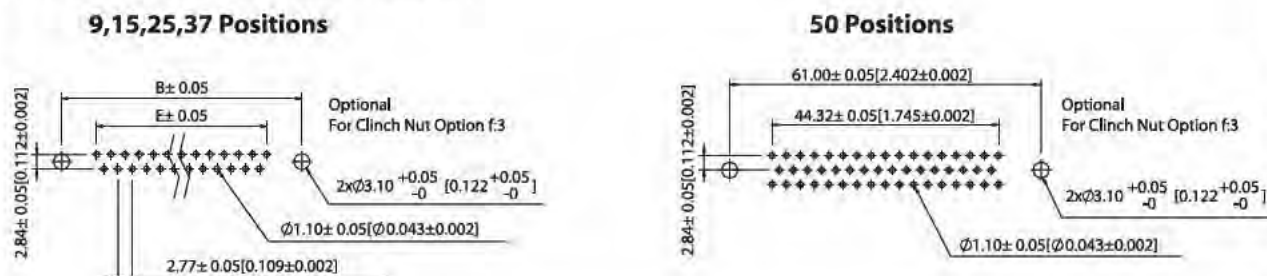
PART NUMBER OPTIONS

SDS101-PR - - -	
CONTACT PLATING (All Platings Have .000050" Nickel Underplate) W = Gold Flash On Contact Surface, .000100" Pure Tin On Termination. B = .000010" Gold On Contact Surface, .000100" Pure Tin On Termination. U = .000015" Gold On Contact Surface, .000100" Pure Tin On Termination. C = .000030" Gold On Contact Surface, .000100" Pure Tin On Termination.	INSULATOR COLOR 1. Black (Standard) 2. Blue 6. White
SHELL PLATING 0. Cr+3 Yellow Chrome 2. Tin (Standard) 4. Gold Flash 1. Nickel 3. Cr+6 Yellow Chrome	POSITION OF CLINCH NUT (REFER TO BELOW FIGURE FOR DETAIL) 0. $\varnothing 3.05\text{mm}$ [.120] Clearance Hole 1. Front Rivet, 5.9mm[0.23] 2. Rear Rivet, 5.9mm[0.23] 3. Rivet+2 Prong Boardlock $\varnothing 3.2 \times 6.0 \text{ L}$ [0.13 x 0.24]
CONTACT TYPE M : MALE F : FEMALE	FLANGE MOUNTING OPTION 0. $\varnothing 3.05\text{mm}$ [$\varnothing 0.120$] Clearance Hole 1. #4-40 Female Thread 8. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39]) Female Screwlock Installed 9. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39]) Female Screwlock Bulk-Packed 4. M3 Female Thread 5. M3 (5.0 X 10.0mm [0.20 X 0.39]) Female Screwlock Installed
NO. OF PINS 09 : 09 POSITIONS 15 : 15 POSITIONS 25 : 25 POSITIONS 37 : 37 POSITIONS 50 : 50 POSITIONS	FERRITE N : Without Ferrite
	PIN TYPE S : STAMPED PIN M : MACHINED PIN

POSITION OF CLINCH NUT Consult sales or factory for other mounting style options



RECOMMENDED PCB LAYOUT





SPECIFICATIONS

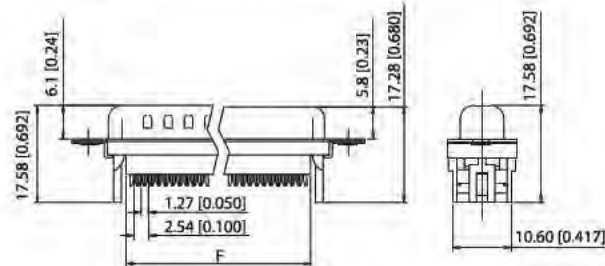
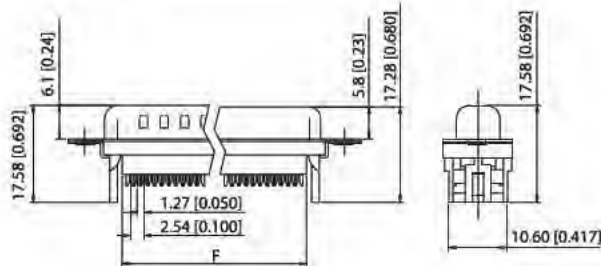
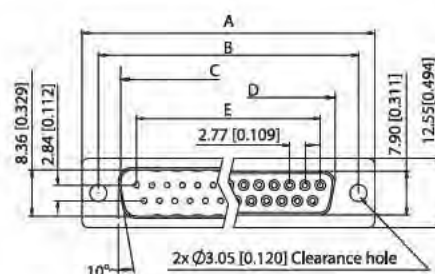
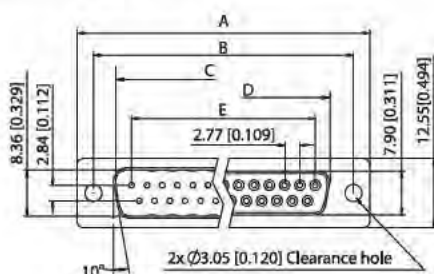
Material

- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Screwlock: Steel, Nickel Plated

Electrical

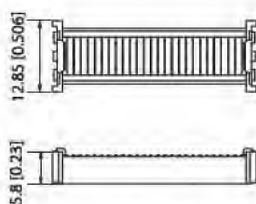
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS

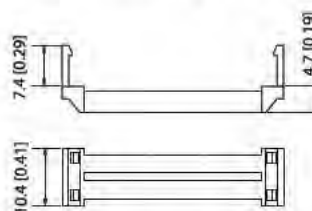


Without Insulator Support

With Insulator Support



COVER



Strain Relief
Optional See P/N Coding

Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256



PART NUMBER OPTIONS

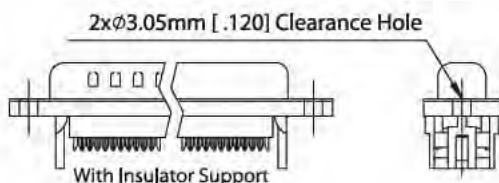
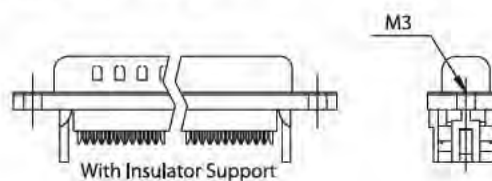
SDS103-PR - - -	
CONTACT PLATING (All Platings Have .000050" Nickel Underplate) W = Gold Flash On Contact Surface, .000100" Pure Tin On Termination. B = .000010" Gold On Contact Surface, .000100" Pure Tin On Termination. U = .000015" Gold On Contact Surface, .000100" Pure Tin On Termination. C = .000030" Gold On Contact Surface, .000100" Pure Tin On Termination.	INSULATOR COLOR 1. With Insulator Support 2. W/O Insulator Support
SHELL PLATING 1. Nickel 2. Tin (Standard)	SR TYPE 1: Plastic Strain Relief 2: Metal Shell Strain Relief 3: Without Strain Relief
CONTACT TYPE M : MALE F : FEMALE	INSULATOR COLOR 1: Black (Standard) 2: Blue
NO. OF PINS 09 : 09 POSITIONS 15 : 15 POSITIONS 25 : 25 POSITIONS 37 : 37 POSITIONS	POSITION OF CLINCH NUT 0. $\varnothing 3.05\text{mm}$ [.120] Clearance Hole 5. Rear Rivet, 4.0mm[0.16]
	FLANGE MOUNTING OPTION (REFER TO BELOW FIGURE FOR DETAIL) 0. $\varnothing 3.05\text{mm}$ [$\varnothing 0.120$] Clearance Hole 1. #4-40 Female Thread 4. M3 Female Thread 7. M2.6 Female Thread A. #4-40 Female Thread: 4.0mm[0.16]
	FERRITE N : Without Ferrite
	PIN TYPE S : STAMPED PIN

FLANGE MOUNTING OPTION Consult sales or factory for other mounting style options

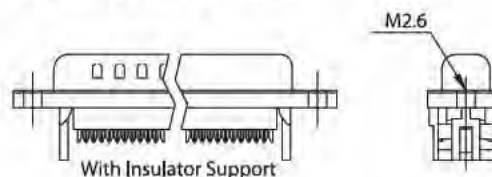
0. 3.05mm [.120] Clearance Hole



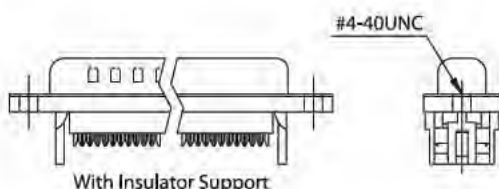
4. M3 Female Thread



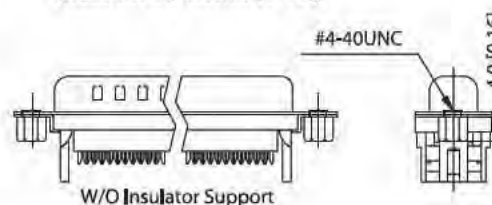
7. M2.6 Female Thread



1. #4-40 Female Thread



A. #4-40 Female Thread: 4.0mm[0.16] (Rear Rivet, 4.0mm[0.16])





SPECIFICATIONS

Material

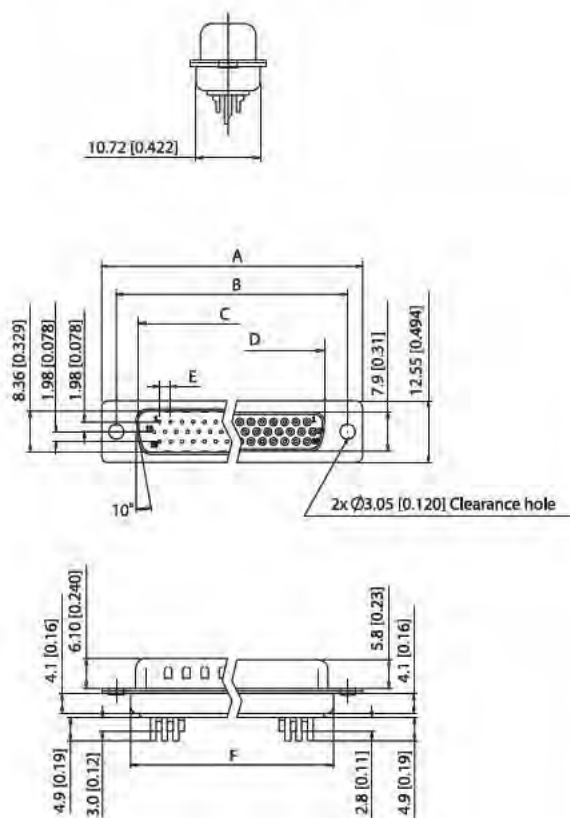
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Screwlock: Steel, Nickel Plated

Electrical

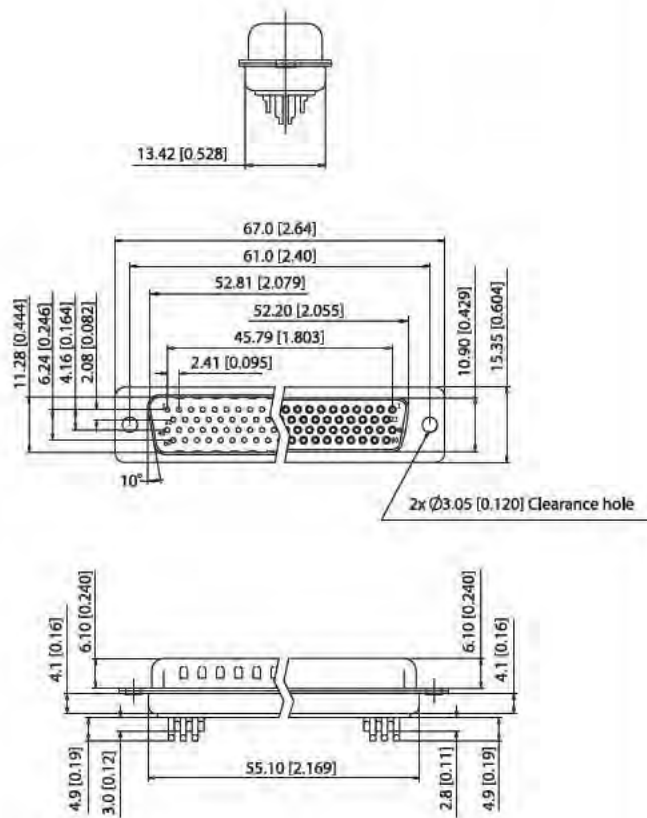
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS

15, 26, 44, 62 Positions



78 Positions



Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
15	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
26	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
44	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
62	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

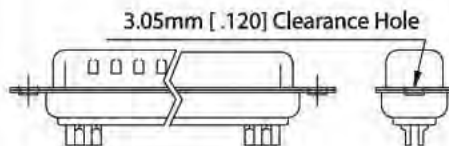


PART NUMBER OPTIONS

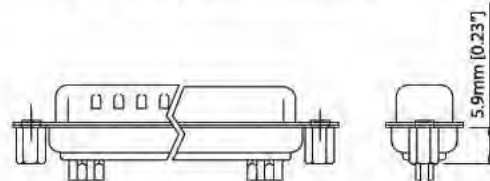
CONTACT PLATING (All Platings Have .000050" Nickel Underplate) W = Gold Flash On Contact Surface, .000100" Pure Tin On Termination. B = .000010" Gold On Contact Surface, .000100" Pure Tin On Termination. U = .000015" Gold On Contact Surface, .000100" Pure Tin On Termination. C = .000030" Gold On Contact Surface, .000100" Pure Tin On Termination. SHELL PLATING 1. Nickel 2. Tin (Standard) CONTACT TYPE M : MALE F : FEMALE NO. OF PINS 15 : 15 POSITIONS 26 : 26 POSITIONS 44 : 44 POSITIONS 62 : 62 POSITIONS 78 : 78 POSITIONS	INSULATOR COLOR 1. Black (Standard) 2. Blue 6. White POSITION OF CLINCH NUT (REFER TO BELOW FIGURE FOR DETAIL) 0. $\varnothing 3.05\text{mm}$ [.120] Clearance Hole 1. Front Rivet, 5.9mm[0.23] 2. Rear Rivet, 5.9mm[0.23] 3. Rivet+2 Prong Boardlock $\varnothing 3.2 \times 6.0 \text{ L}$ [0.13 x 0.24] FLANGE MOUNTING OPTION 0. $\varnothing 3.05\text{mm}$ [.120] Clearance Hole 1. #4-40 Female Thread 2. #4-40 UNC (5.0 X 10.mm [0.20 X 0.39]) Female Screwlock Installed 3. #4-40 UNC (5.0 X 10.mm [0.20 X 0.39]) Female Screwlock Bulk-Packed 4. M3 Female Thread FERRITE N : Without Ferrite PIN TYPE S : STAMPED PIN M : MACHINED PIN
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POSITION OF CLINCH NUT Consult sales or factory for other mounting style options

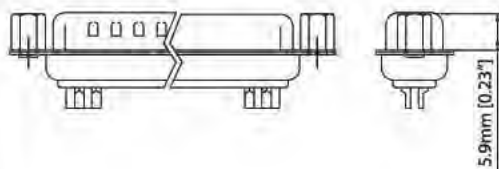
0. 3.05mm [.120] Clearance Hole



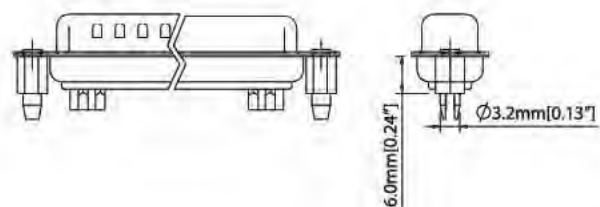
2. Rear Rivet, 5.9mm[0.23]



1. Front Rivet, 5.9mm[0.23]



**3. Rivet+2 Prong Boardlock
 $\varnothing 3.2 \times 6.0 \text{ L}$ [0.13 x 0.24]**





D-Sub Right Angle Type - 107 SERIES

SPECIFICATIONS

Material

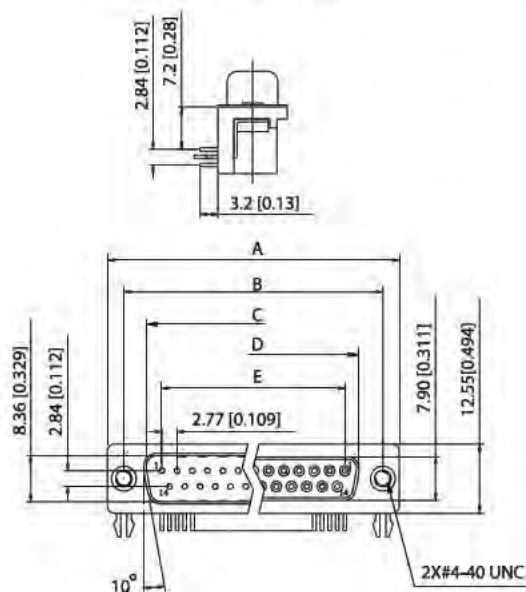
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

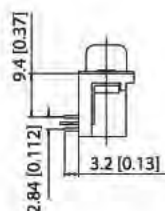
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS With 7.2mm[0.28"], 9.4mm[0.37"], 13.84mm[0.545"] Footprint

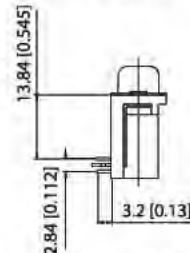
7.2mm[0.28"] Footprint



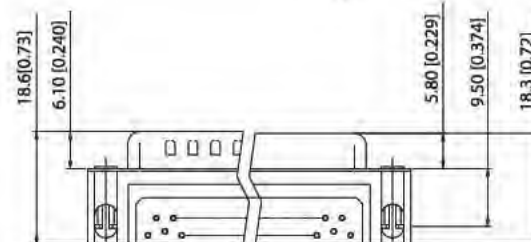
9.4mm[0.37"] Footprint



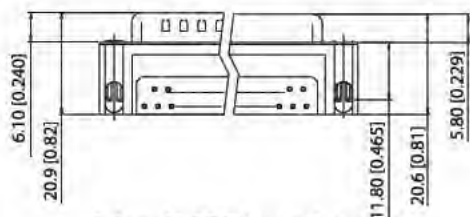
13.84mm[0.545"] Footprint



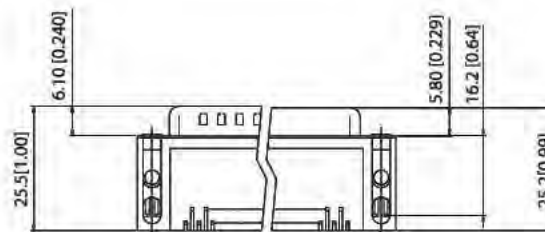
7.2mm[0.28"] Footprint



9.4mm[0.37"] Footprint



13.84mm[0.545"] Footprint



Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	11.08	0.436
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	19.39	0.763
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	33.24	1.309
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	49.86	1.963



SPECIFICATIONS

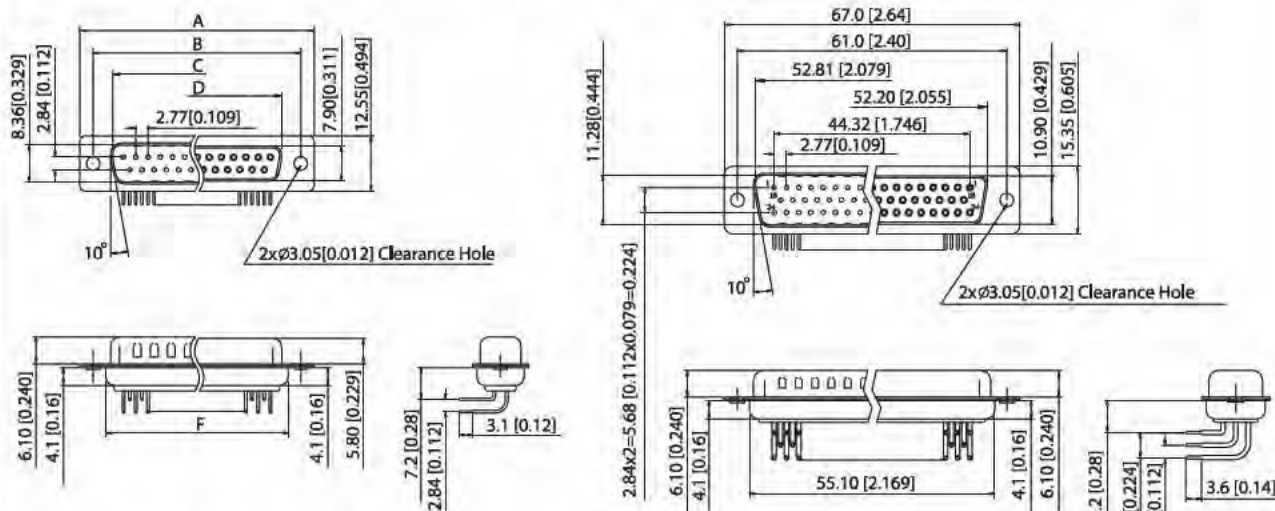
Material

- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS With 7.2mm[0.28"] Footprint Machined Pin (W/O Rear Cover) & 50 Positions Machined Pin (W/O Rear Cover)

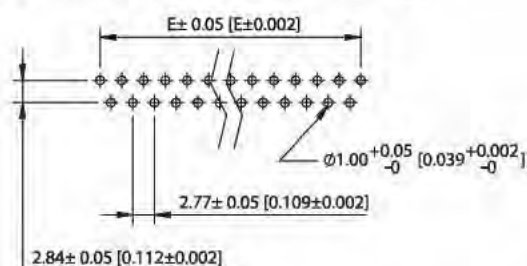


**7.2mm[0.28"] Footprint Machined Pin
(W/O Rear Cover)**

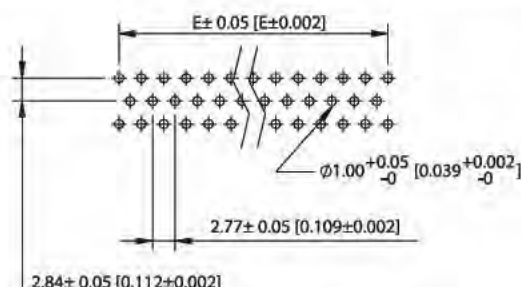
50 Positions Machined Pin (W/O Rear Cover)

Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

RECOMMENDED PCB LAYOUT



7.2mm[0.28"] Footprint Machined Pin (W/O Rear Cover)



50 Positions Machined Pin (W/O Rear Cover)



D-Sub Right Angle Type - 107 SERIES

SPECIFICATIONS

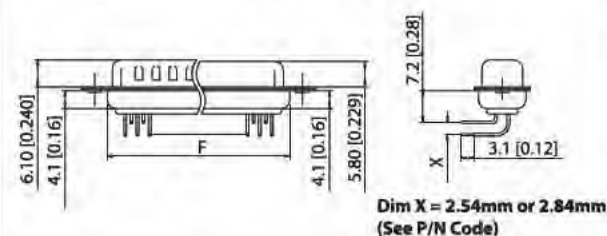
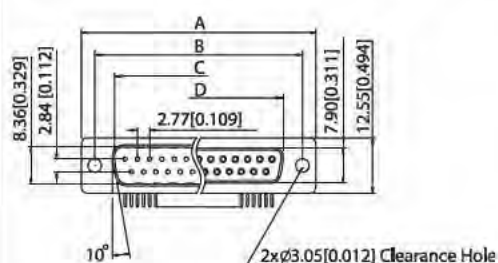
Material

- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

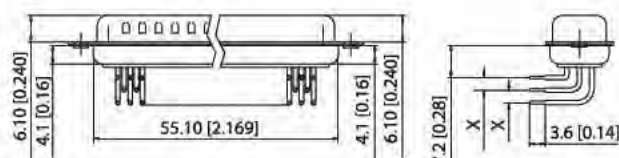
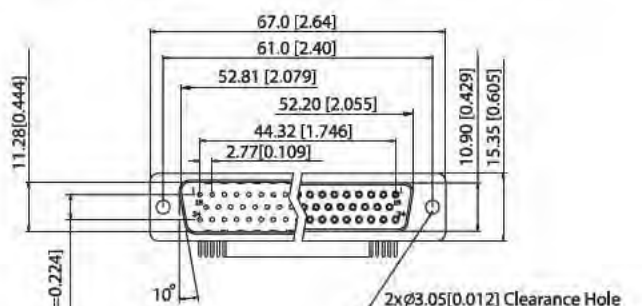
Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS With 9.4mm[0.37"] Footprint Machined Pin (W/O Rear Cover) & 50 Positions Machined Pin (W/O Rear Cover)



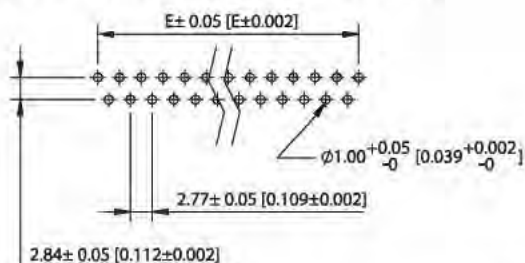
**9.4mm[0.37"] Footprint Machined Pin
(W/O Rear Cover)**



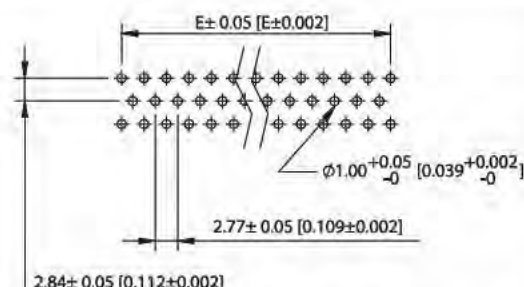
50 Positions Machined Pin (W/O Rear Cover)

Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

RECOMMENDED PCB LAYOUT



7.2mm[0.28"] Footprint Machined Pin (W/O Rear Cover)



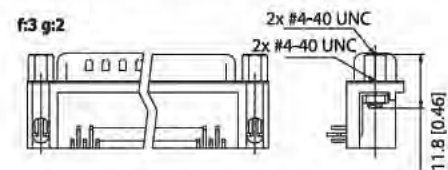
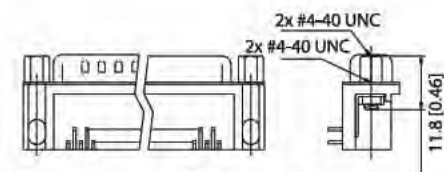
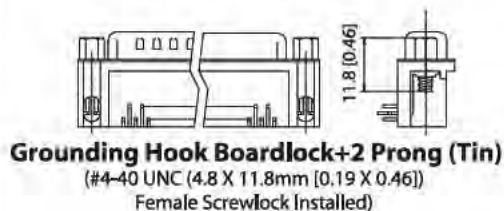
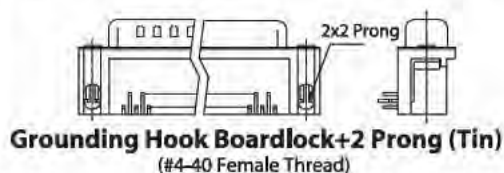
50 Positions Machined Pin (W/O Rear Cover)



PART NUMBER OPTIONS

CONTACT PLATING (All Platings Have .000050" Nickel Underplate)		SDS107-PR			FOOTPRINT 1: 7.2mm [0.28"] Footprint 2: 9.4mm [0.37"] Footprint 3: 13.84mm [0.545"] Footprint
W = Gold Flash On Contact Surface, .000100" Pure Tin On Termination.					
B = .000010" Gold On Contact Surface, .000100" Pure Tin On Termination.					
U = .000015" Gold On Contact Surface, .000100" Pure Tin On Termination.					
C = .000030" Gold On Contact Surface, .000100" Pure Tin On Termination.					
N = .000050" Gold On Contact Surface, .000100" Pure Tin On Termination.					
P = Gold Flash Overall					
SHELL PLATING					INSULATOR COLOR 1: Black (Standard) 2: Blue
1. Nickel	2. Tin (Standard)				
3. Cr ⁺ 6 Yellow Chrome	4. Gold Flash				RIVET OPTIONS (REFER TO BELOW FIGURE FOR DETAIL) 0. None 1. Grounding Strap #4-40 Threaded on PANEL 2. Grounding Strap #4-40 Threaded on PCB & PANEL 3. Grounding Hook Boardlock+2 Prong (Tin)
CONTACT TYPE					
M : MALE					FLANGE MOUNTING OPTION (REFER TO BELOW FIGURE FOR DETAIL) 1. #4-40 Female Thread 2. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Installed 3. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Bulk-Packed **6. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Installed ** Remove Screwlock to Disassemble Boardlock Bracket
F : FEMALE					
NO. OF PINS					FERRITE N : Without Ferrite
09 : 09 POSITIONS					
15 : 15 POSITIONS					PIN TYPE S : STAMPED PIN M : MACHINED PIN
25 : 25 POSITIONS					
37 : 37 POSITIONS					
50 : 50 POSITIONS					

RIVET OPTIONS & FLANGE MOUNTING OPTION





D-Sub H.D. Right Angle Type - 108 SERIES

SPECIFICATIONS

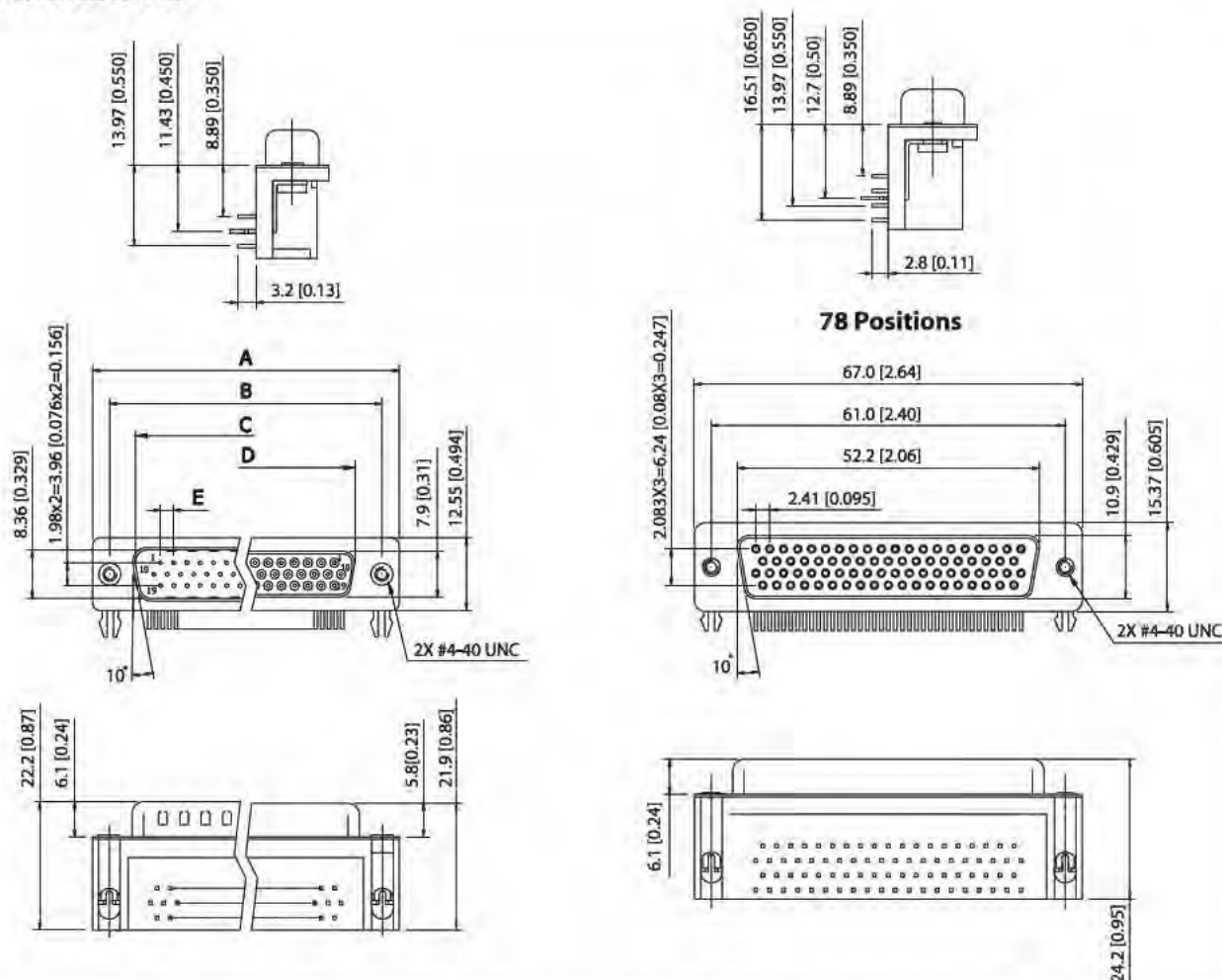
Material

- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS



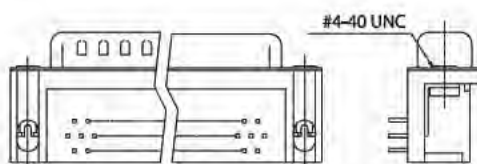
Positions	A		B		C		D		E		F		G	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
15	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	2.29	0.090	7.04	0.277	1.145	0.045
26	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	2.29	0.090	7.04	0.277	1.145	0.045
44	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	2.29	0.090	7.04	0.277	1.145	0.045
62	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	2.41	0.065	7.00	0.276	1.205	0.040



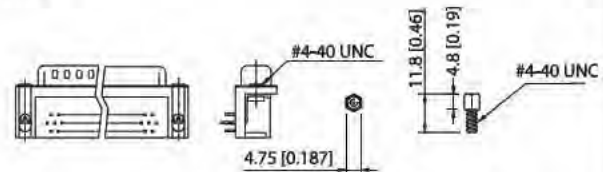
PART NUMBER OPTIONS

CONTACT PLATING (All Platings Have .000050" Nickel Underplate) W = Gold Flash On Contact Surface, .000100" Pure Tin On Termination. B = .000010" Gold On Contact Surface, .000100" Pure Tin On Termination. U = .000015" Gold On Contact Surface, .000100" Pure Tin On Termination. C = .000030" Gold On Contact Surface, .000100" Pure Tin On Termination. N = .000050" Gold On Contact Surface, .000100" Pure Tin On Termination. P = Gold Flash Overall		INSULATOR COLOR 1. Black (Standard) 2. Blue	
SHELL PLATING 1. Nickel 2. Tin (Standard)		RIVET OPTIONS (REFER TO BELOW FIGURE FOR DETAIL) 0. None 1. Grounding Strap #4-40 Threaded On Panel 2. Grounding Strap #4-40 Threaded On PCB & Panel 3. Grounding Hook Boardlock+2 Prong	
CONTACT TYPE M : MALE F : FEMALE		FLANGE MOUNTING OPTION (REFER TO BELOW FIGURE FOR DETAIL) 1. #4-40 Female Thread 2. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Installed 3. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Bulk-Packed **6. #4-40 UNC (4.8 X 11.8mm [0.19 X 0.46]) Female Screwlock Installed ** Remove Screwlock to Disassemble Boardlock Bracket	
NO. OF PINS 15 : 15 POSITIONS 26 : 26 POSITIONS 44 : 44 POSITIONS 62 : 62 POSITIONS 78 : 78 POSITIONS		FERRITE N : Without Ferrite	
		PIN TYPE S : STAMPED PIN M : MACHINED PIN	

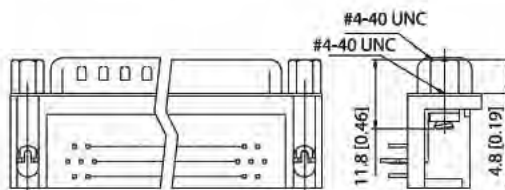
RIVET OPTIONS & FLANGE MOUNTING OPTION



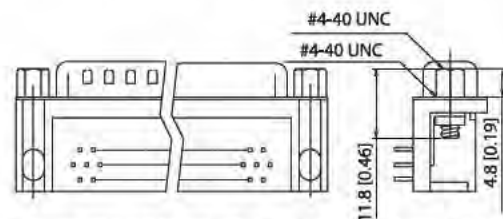
Grounding Hook Boardlock+2 Prong
(#4-40 Female Thread)



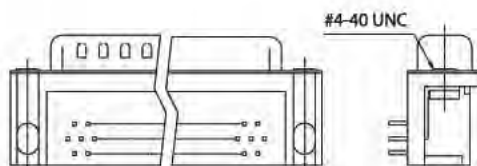
Grounding Hook Boardlock+2 Prong
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Bulk-Packed)



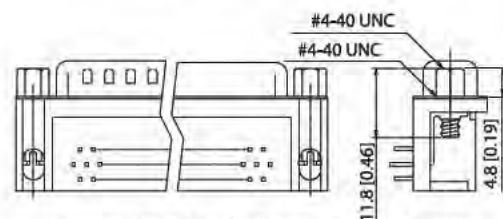
Grounding Hook Boardlock+2 Prong
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Installed)



Grounding Strap #4-40 Threaded on Panel
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Installed)



Grounding Strap #4-40 Threaded on Panel
(#4-40 Female Thread)



Grounding Hook Boardlock+2 Prong
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])
Female Screwlock Installed)



SPECIFICATIONS

Material

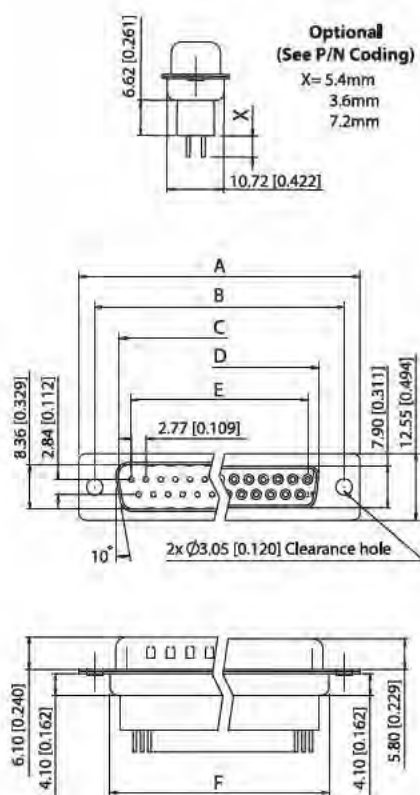
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

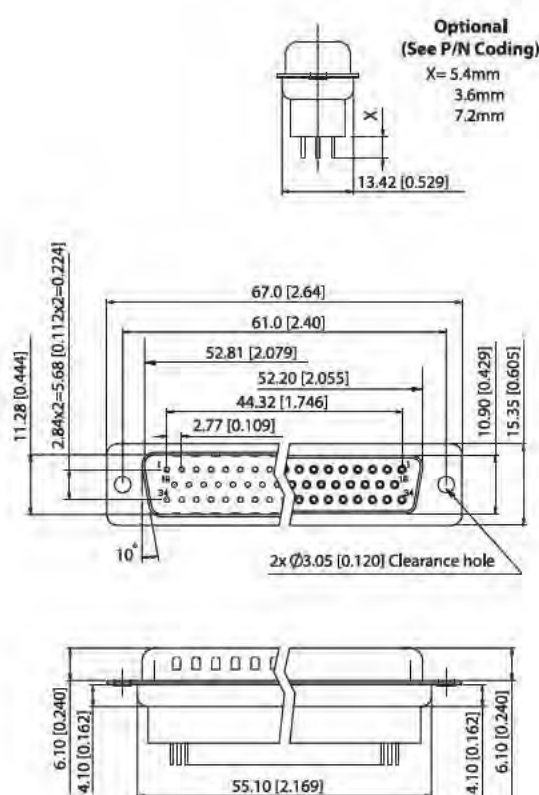
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS

9,15,25,37 Positions



50 Positions



Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
15	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
25	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
37	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256



PART NUMBER OPTIONS

SDS155-PR

CONTACT PLATING

(All Platings Have .000050" Nickel Underplate)

W = Gold Flash On Contact Surface,
.000100" Pure Tin On Termination.
B = .000010" Gold On Contact Surface,
.000100" Pure Tin On Termination.
U = .000015" Gold On Contact Surface,
.000100" Pure Tin On Termination.
C = .000030" Gold On Contact Surface,
.000100" Pure Tin On Termination.

SHELL PLATING

0. Cr+3 Yellow Chrome
2. Tin (Standard)
1. Nickel
3. Cr+6 Yellow Chrome

CONTACT TYPE

M : MALE
F : FEMALE

NO. OF PINS

09 : 09 POSITIONS
15 : 15 POSITIONS
25 : 25 POSITIONS
37 : 37 POSITIONS
50 : 50 POSITIONS

INSULATOR COLOR

1. Black (Standard)

RIVET OPTIONS

(REFER TO BELOW FIGURE FOR DETAIL)

0. $\phi 3.05\text{mm}$ [.120] Clearance Hole
1. Front Rivet, 5.9mm [0.23]
2. Rear Rivet, 5.9mm [0.23]
4. Boardlock+2 Prong $\phi 3.0 \times 11.0 \text{ L}$ [0.12 x 0.43]
6. Boardlock+4 Prong $\phi 3.0 \times 11.0 \text{ L}$ [0.12 x 0.43]

FLANGE MOUNTING OPTION

0. $\phi 3.05\text{mm}$ [$\phi 0.120$] Clearance Hole
1. #4-40 Female Thread
8. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39])
Female Screwlock Installed
9. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39])
Female Screwlock Bulk-Packed

FERRITE

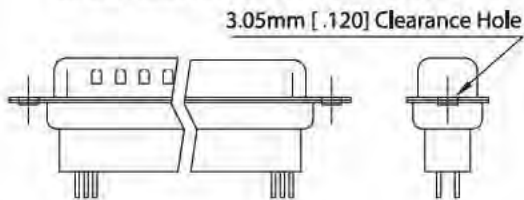
N : Without Ferrite

PIN TYPE

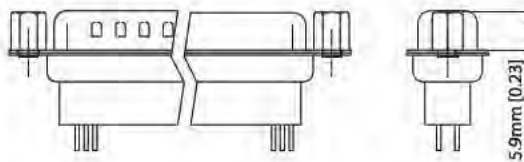
S : STAMPED PIN : 5.4mm [0.21]
M : MACHINED PIN : 5.4mm [0.21]
Q : STAMPED PIN : 3.6mm [0.14]
R : STAMPED PIN : 7.2mm [0.28]

RIVET OPTIONS

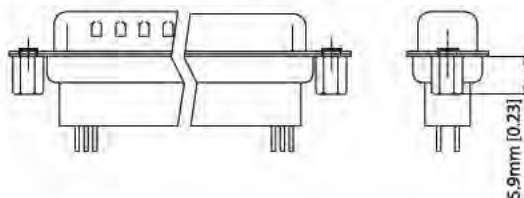
0. 3.05mm [.120] Clearance Hole



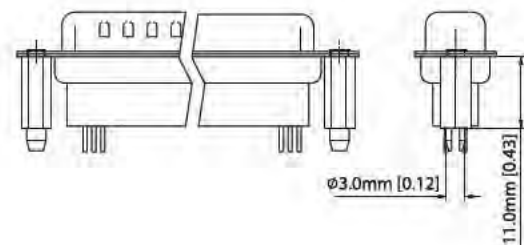
1. Front Rivet, 5.9mm [0.23]



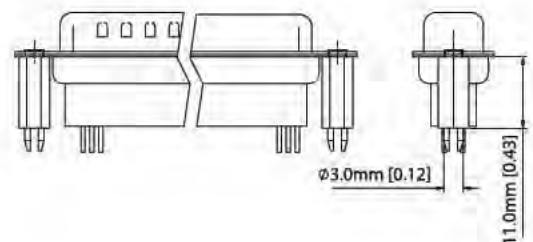
2. Rear Rivet, 5.9mm [0.23]



4. Boardlock+2 Prong $\phi 3.0 \times 11.0 \text{ L}$ [0.12 x 0.43]



6. Boardlock+4 Prong $\phi 3.0 \times 11.0 \text{ L}$ [0.12 x 0.43]





D-Sub H.D. High Profile PCB Type - 160 SERIES

SPECIFICATIONS

Material

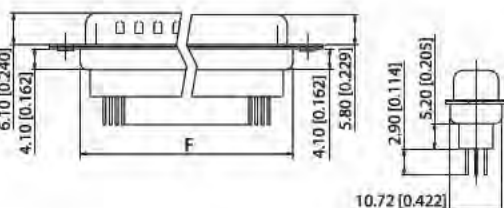
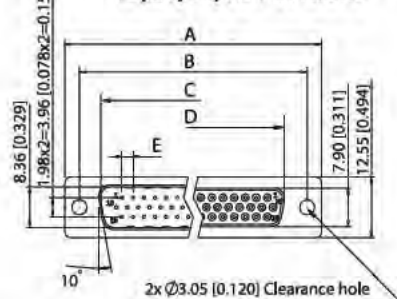
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Screwlock: Steel, Nickel Plated

Electrical

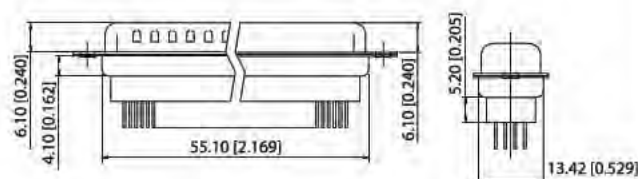
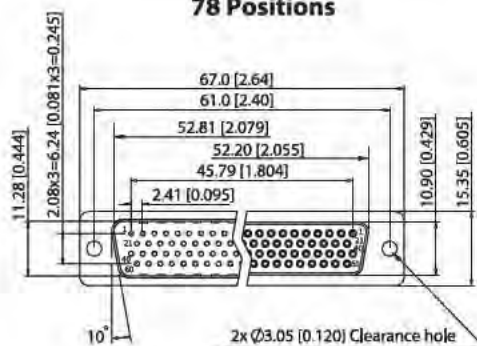
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

DIMENSIONS

15,26,44,62 Positions



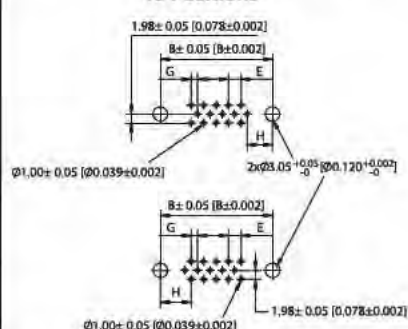
78 Positions



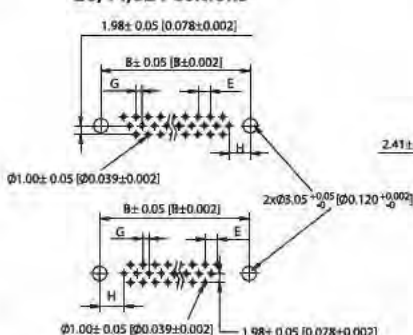
Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
15	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
26	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
44	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
62	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256

RECOMMENDED PCB LAYOUT

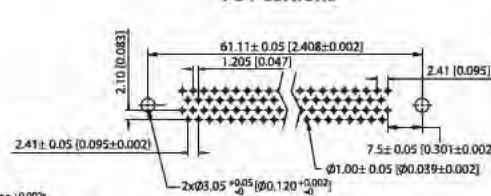
15 Positions



26,44,62 Positions



78 Positions



Positions	G		H	
	mm	inch	mm	inch
15	1.145	0.0451	7.04	0.277
26	1.145	0.0451	6.88	0.271
44	1.145	0.0451	6.88	0.271
62	1.205	0.0474	7.00	0.275



PART NUMBER OPTIONS

SDS160-PR

CONTACT PLATING

(All Platings Have .000050" Nickel Underplate)

- W = Gold Flash On Contact Surface,
.000100" Pure Tin On Termination.
B = .000010" Gold On Contact Surface,
.000100" Pure Tin On Termination.
U = .000015" Gold On Contact Surface,
.000100" Pure Tin On Termination.
C = .000030" Gold On Contact Surface,
.000100" Pure Tin On Termination.

SHELL PLATING

0. Cr+3 Yellow Chrome
2. Tin (Standard)
1. Nickel
3. Cr+6 Yellow Chrome

CONTACT TYPE

- M : MALE
F : FEMALE

NO. OF PINS

- 15 : 15 POSITIONS
26 : 26 POSITIONS
44 : 44 POSITIONS
62 : 62 POSITIONS
78 : 78 POSITIONS

INSULATOR COLOR

1. Black
2. Blue

RIVET OPTIONS

(REFER TO BELOW FIGURE FOR DETAIL)

0. $\varnothing 3.05\text{mm}$ [.120] Clearance Hole
1. Front Rivet, 5.9mm [0.23]
2. Rear Rivet, 5.9mm [0.23]
4. Boardlock+2 Prong $\varnothing 3.0 \times 11.0 \text{ L}$ [0.12 x 0.43]
6. Boardlock+4 Prong $\varnothing 3.0 \times 11.0 \text{ L}$ [0.12 x 0.43]

FLANGE MOUNTING OPTION

0. $\varnothing 3.05\text{mm}$ [$\varnothing 0.120$] Clearance Hole
1. #4-40 Female Thread
B. #4-40 UNC (5.8 X 11.8mm [0.23 X 0.46])
Female Screwlock Installed
C. #4-40 UNC (5.8 X 11.8mm [0.23 X 0.46])
Female Screwlock Bulk-Packed

FERRITE

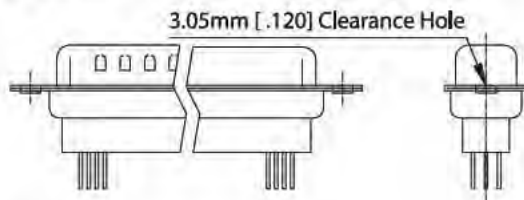
- N : Without Ferrite

PIN TYPE

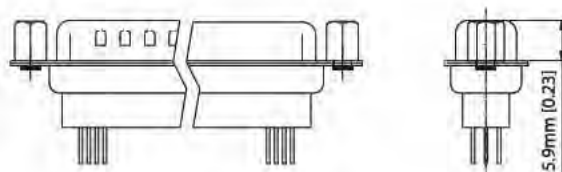
- S : STAMPED PIN : 5.4mm [0.21]
M : MACHINED PIN : 5.4mm [0.21]
Q : STAMPED PIN : 3.6mm [0.14]
R : STAMPED PIN : 7.2mm [0.28]
T : MACHINED PIN : 7.5mm [0.30]

RIVET OPTIONS

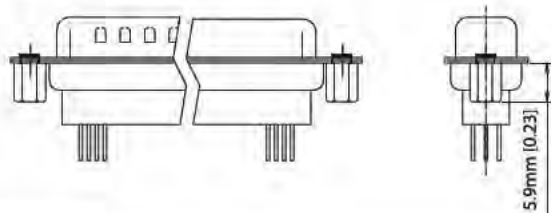
0. 3.05mm [.120] Clearance Hole



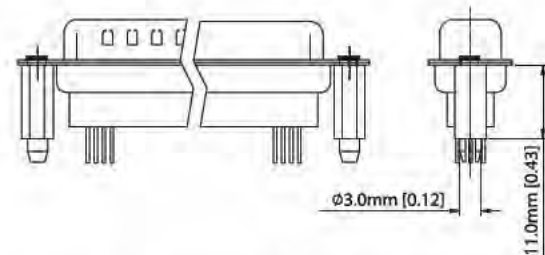
1. Front Rivet, 5.9mm [0.23]



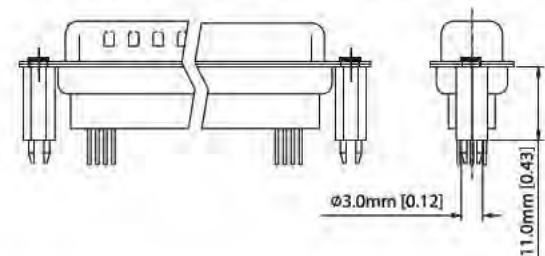
2. Rear Rivet, 5.9mm [0.23]



4. Boardlock+2 Prong $\varnothing 3.0 \times 11.0 \text{ L}$ [0.12 x 0.43]



6. Boardlock+4 Prong $\varnothing 3.0 \times 11.0 \text{ L}$ [0.12 x 0.43]





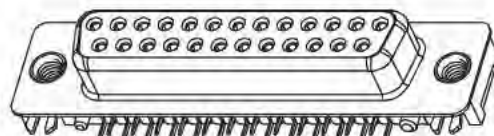
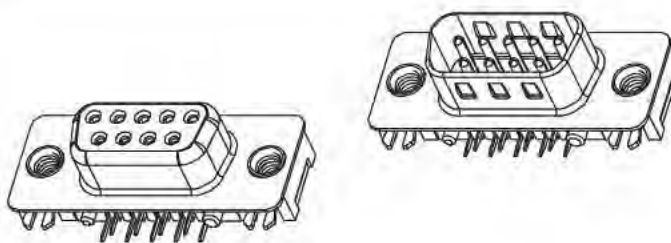
SPECIFICATIONS

Material

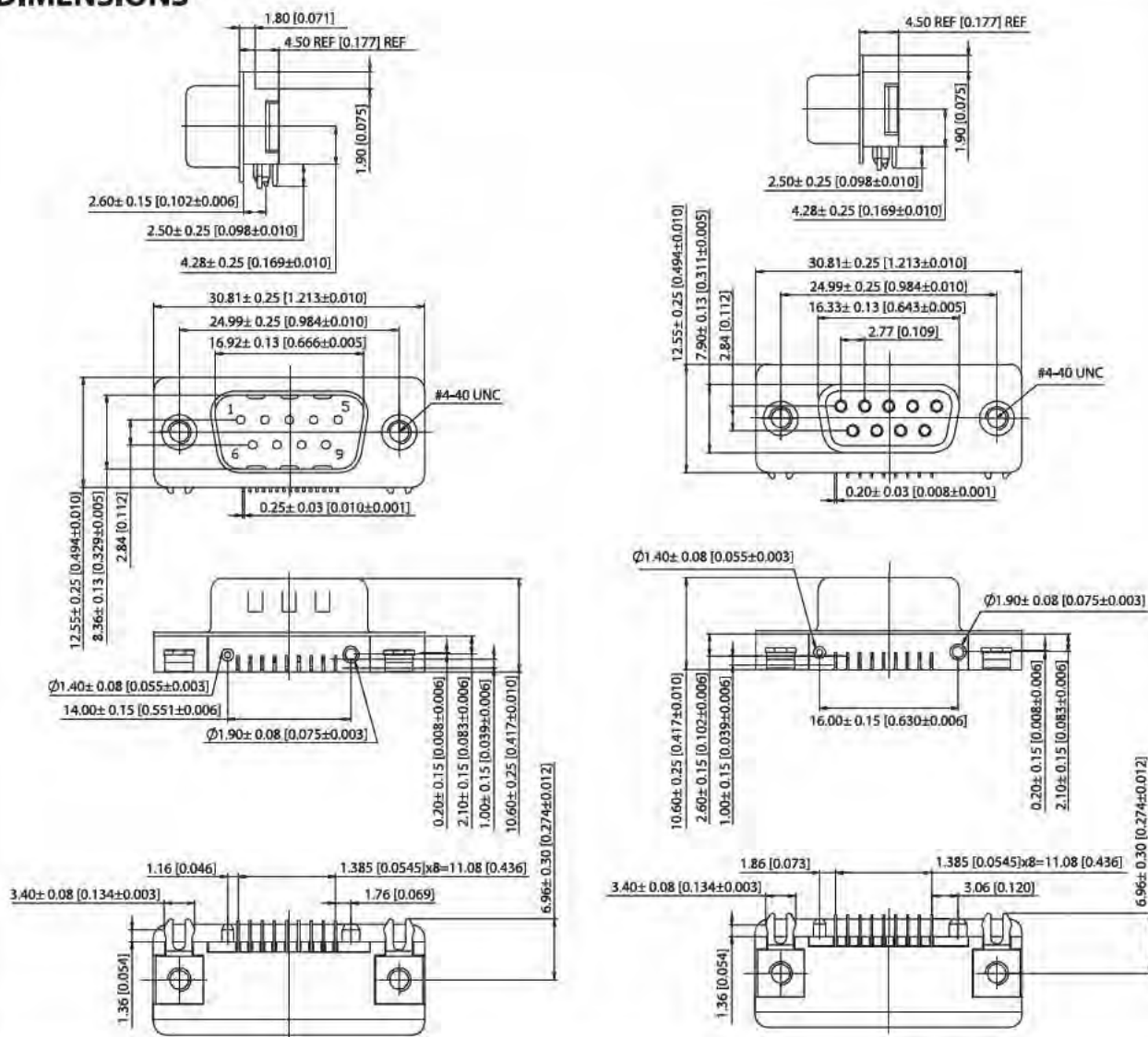
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz



DIMENSIONS





PART NUMBER OPTIONS

SDS223-PR

CONTACT PLATING

(All Platings Have .000050" Nickel Underplate)

W = Gold Flash On Contact Surface,
Pure Tin On Termination.

B = .000010" Gold On Contact Surface,
.000100" Pure Tin On Termination.

U = .000015" Gold On Contact Surface,
.000100" Pure Tin On Termination.

C = .000030" Gold On Contact Surface,
.000100" Pure Tin On Termination.

SHELL PLATING

0. Cr³ Yellow Chrome
2. Tin (Standard)

1. Nickel
3. Cr⁶ Yellow Chrome

CONTACT TYPE

M : MALE

F : FEMALE

NO. OF PINS

09 : 09 POSITIONS

25 : 25 POSITIONS (FEMALE)

INSULATOR COLOR

1. Black
2. Blue (Standard)
3. White

RIVET OPTIONS

0. None
1. Grounding Strap #4-40 Threaded on PANEL
2. Grounding Strap #4-40 Threaded on PCB & PANEL
3. Grounding Hook Boardlock+2 Prong

FLANGE MOUNTING OPTION

0. $\varnothing 3.05\text{mm}$ [$\varnothing 0.120$] Clearance Hole
1. #4-40 Female Thread
8. #4-40 UNC (4.8 X 11.8mm [0.19X 0.46])
Female Screwlock Installed
9. #4-40 UNC (4.8 X 11.8mm [0.19X 0.46])
Female Screwlock Bulk-Packed

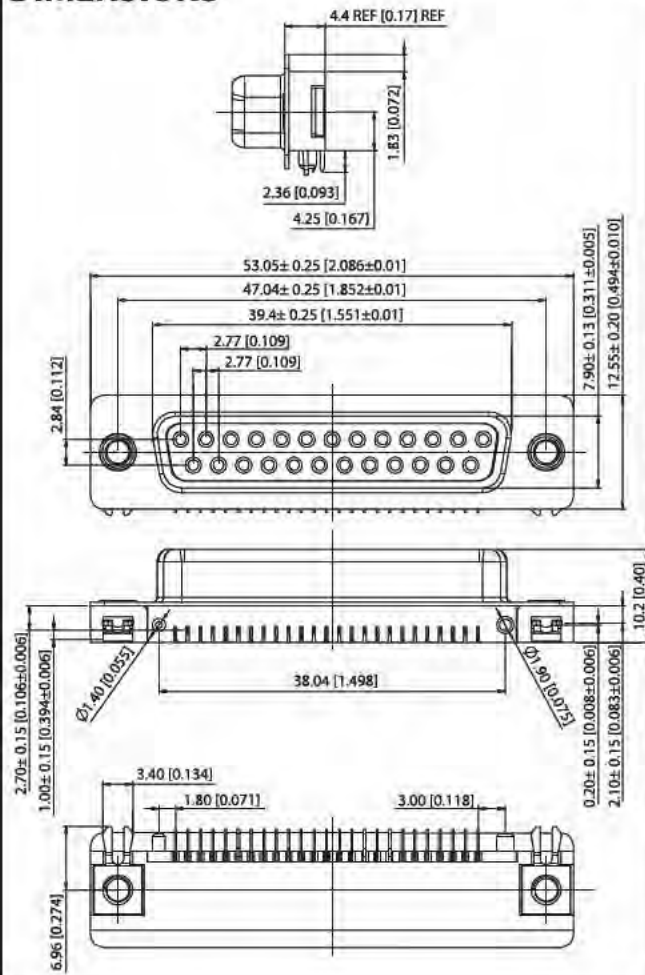
FERRITE

N : Without Ferrite

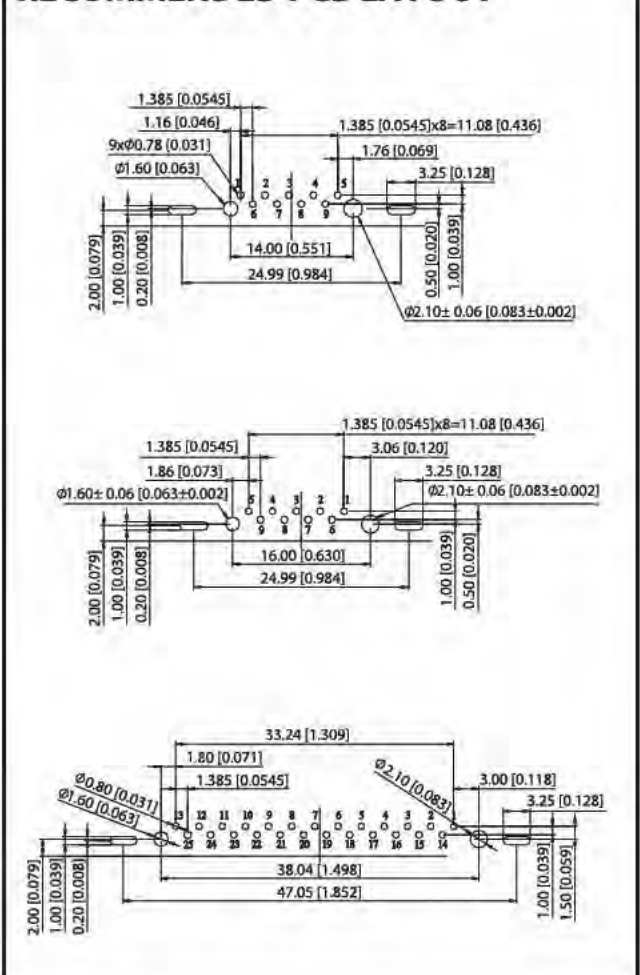
PIN TYPE

S : STAMPED PIN

DIMENSIONS



RECOMMENDED PCB LAYOUT





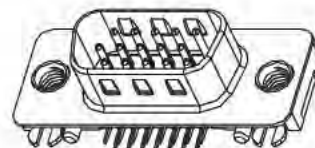
SPECIFICATIONS

Material

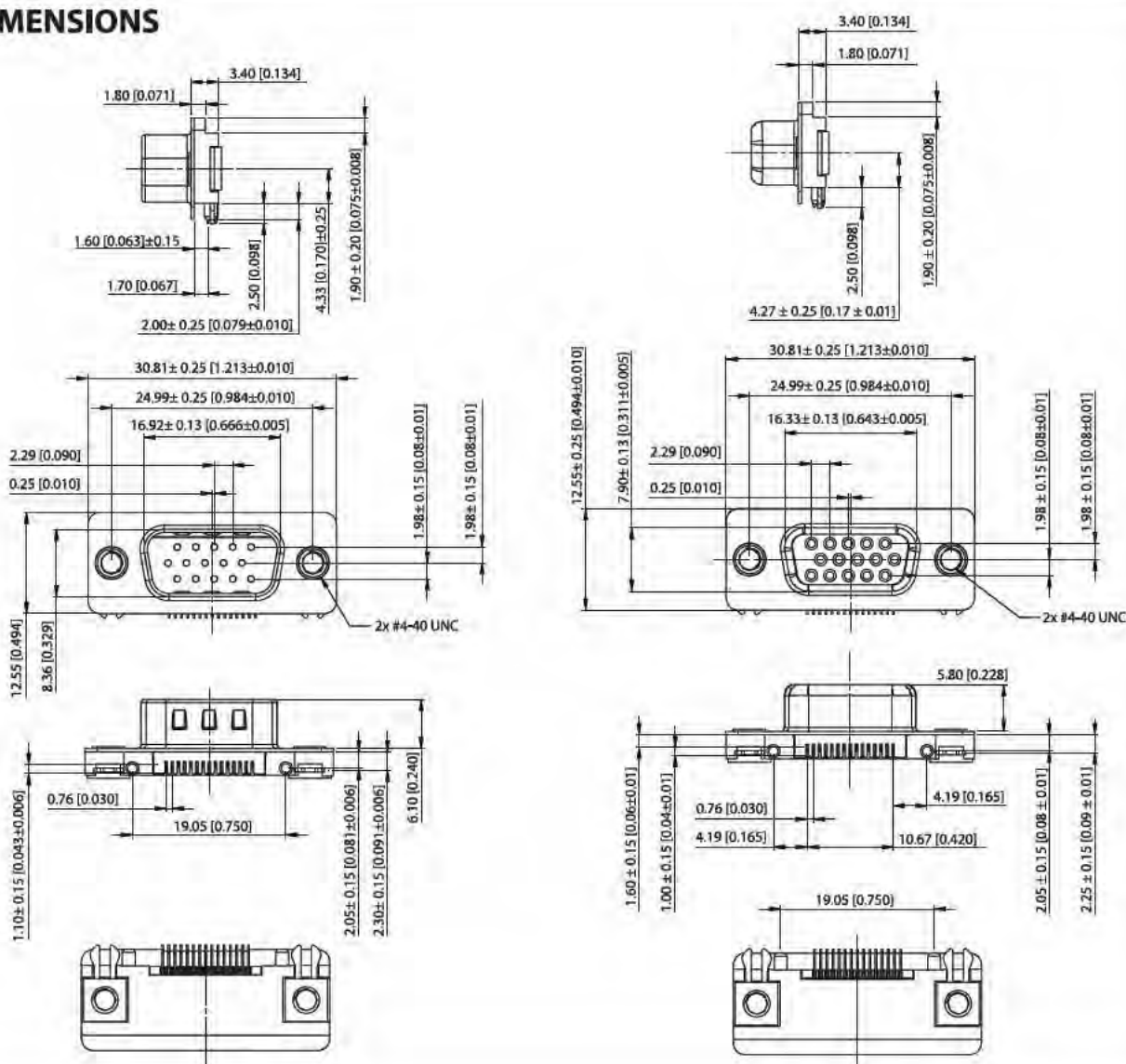
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

Electrical

- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz



DIMENSIONS





PART NUMBER OPTIONS

SDS224-PR		
CONTACT PLATING		INSULATOR COLOR
W = .000050" Nickel Underplate, Gold Flash On Contact Surface, .000100" Pure Tin On Termination.		1. Black 2. Blue (Standard)
SHELL PLATING		RIVET OPTIONS
1. Nickel 2. Tin (Standard) 3. Cr+6 Yellow Chrome 4. Gold Flash		0. None 1. Grounding Strap #4-40 Threaded on PANEL 2. Grounding Strap #4-40 Threaded on PCB & PANEL 3. Grounding Hook Boardlock+2 Prong
CONTACT TYPE		FLANGE MOUNTING OPTION
M : MALE F : FEMALE		0. $\varnothing 3.05\text{mm}$ [$\varnothing 0.120$] Clearance Hole 1. #4-40 UNC Female Thread 8. #4-40 UNC (4.8 X 11.8mm [0.19X 0.46]) Female Screwlock Installed 9. #4-40 UNC (4.8 X 11.8mm [0.19X 0.46]) Female Screwlock Bulk-Packed
NO. OF PINS		FERRITE
15 : 15 POSITIONS		N : Without Ferrite
PIN TYPE		
S : STAMPED PIN		

RECOMMENDED PCB LAYOUT

