



**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



**D-Sub Solder Type - 100 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

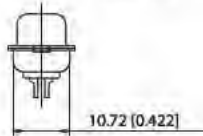
**Electrical**

- 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

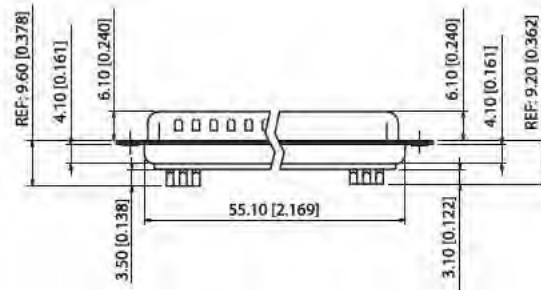
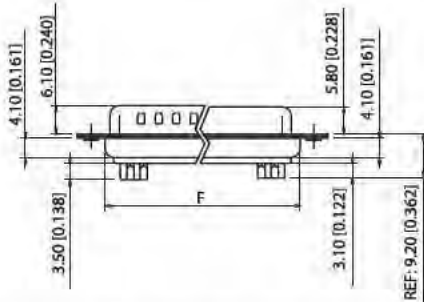
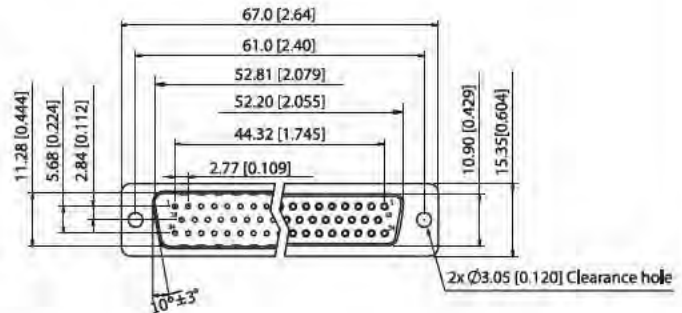
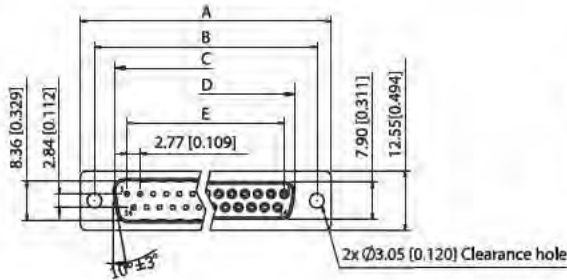
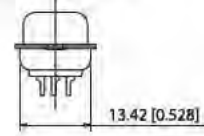
Sullins D-Sub

**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
<b>9</b>	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
<b>15</b>	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
<b>25</b>	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
<b>37</b>	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.

**SHELL PLATING**

0. Cr <sup>3</sup> Yellow Chrome	1. Nickel
2. Tin (Standard)	3. Cr <sup>6</sup> Yellow Chrome
4. Gold Flash	5. Tin without Dimple
6. Cr <sup>6</sup> Yellow Chrome, With Dimple	

**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)    2. Blue  
3. Green                6. White

**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 x 6.0 L [0.13 x 0.24]

**FLANGE MOUNTING OPTION**

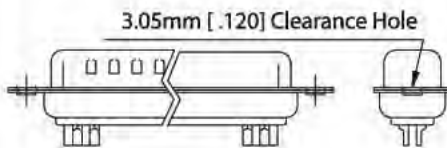
0.  $\phi$ 3.05mm [  $\phi$ .120] Clearance Hole  
1. #4-40 Female Thread  
8. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39])  
Female Screwlock Installed  
9. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39])  
Female Screwlock Bulk-Packed  
4. M3 Female Thread  
5. M3 (5.0 X 10.0mm [0.20 X 0.39])  
Female Screwlock Installed

**FERRITE**  
N : Without Ferrite

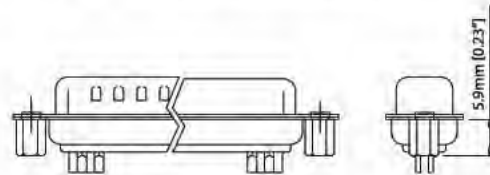
**PIN TYPE**  
S : STAMPED PIN  
M : MACHINED PIN

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

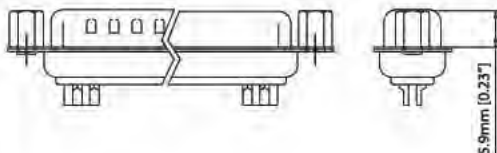
**0. 3.05mm [ .120] Clearance Hole**



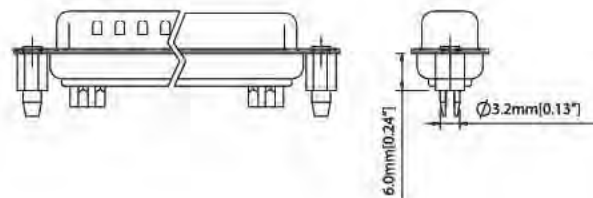
**2. Rear Rivet, 5.9mm[0.23]**



**1. Front Rivet, 5.9mm[0.23]**



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





**D-Sub Dip Straight Type - 101 SERIES**

**SPECIFICATIONS**

**Material**

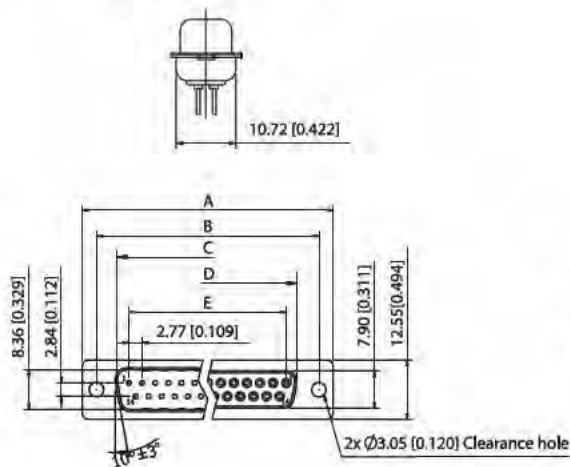
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

**Electrical**

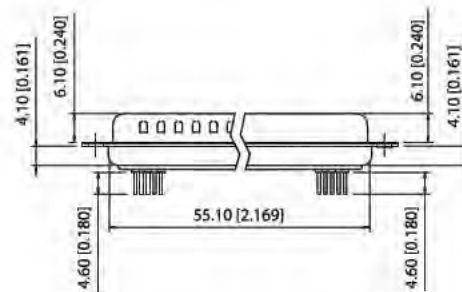
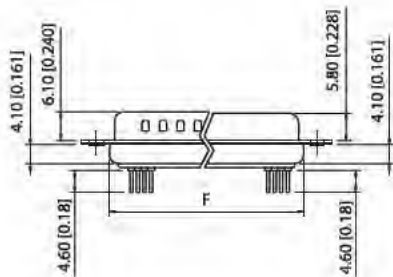
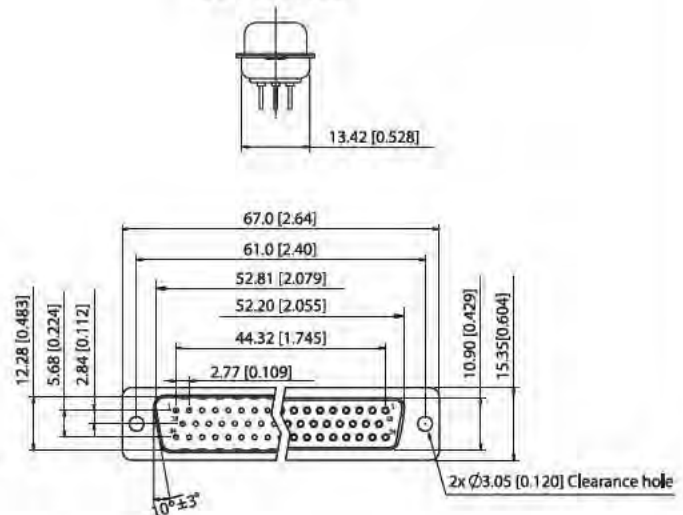
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

**DIMENSIONS**

**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
<b>9</b>	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
<b>15</b>	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
<b>25</b>	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
<b>37</b>	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256



**D-Sub Dip Straight Type - 101 SERIES**

Sullins D-Sub

**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.

**SHELL PLATING**

- 0. Cr+3 Yellow Chrome
- 1. Nickel
- 2. Tin (Standard)
- 3. Cr+6 Yellow Chrome
- 4. Gold Flash

**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)
- 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.  $\varnothing 3.05\text{mm}$  [  $\varnothing 0.120$  ] 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

**FERRITE**

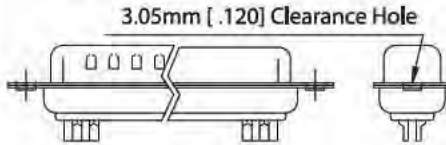
- N : Without Ferrite

**PIN TYPE**

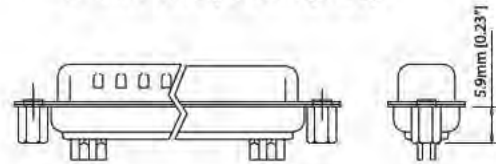
- S : STAMPED PIN
- M : MACHINED PIN

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

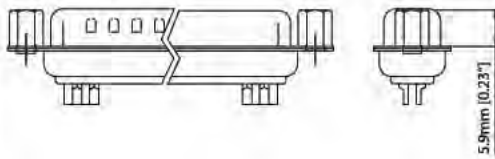
**0. 3.05mm [ .120 ] Clearance Hole**



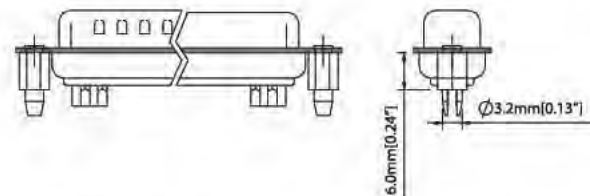
**2. Rear Rivet, 5.9mm[0.23]**



**1. Front Rivet, 5.9mm[0.23]**

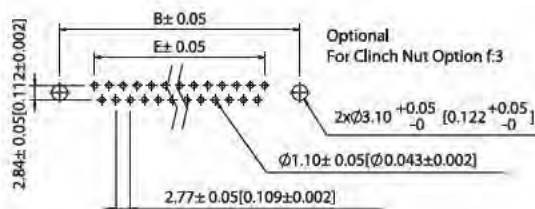


**3. Rivet+2 Prong Boardlock  $\varnothing 3.2 \times 6.0 \text{ L}$  [0.13 x 0.24]**

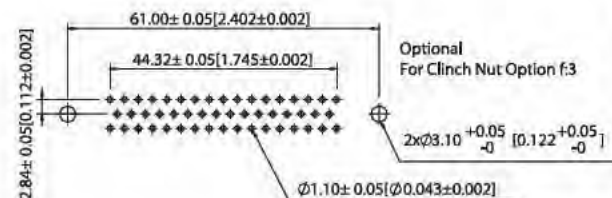


**RECOMMENDED PCB LAYOUT**

**9,15,25,37 Positions**



**50 Positions**





## SPECIFICATIONS

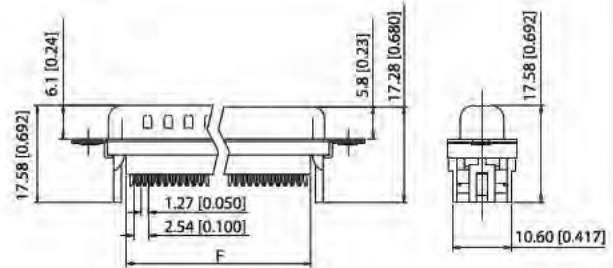
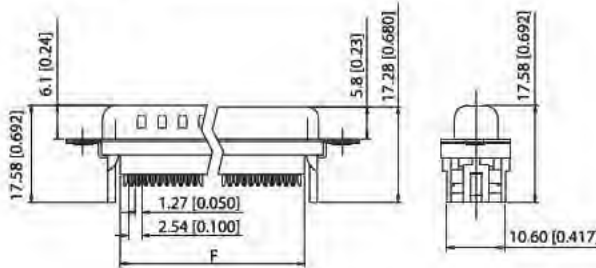
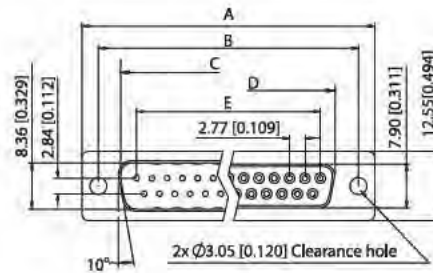
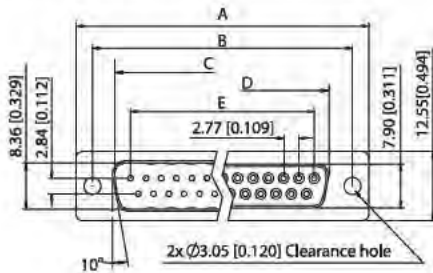
### Material

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

### Electrical

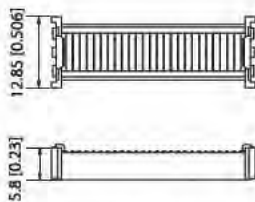
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

## DIMENSIONS

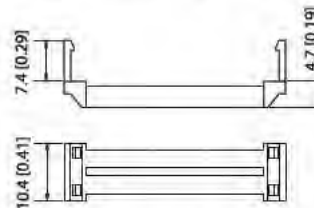


Without Insulator Support

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
<b>9</b>	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
<b>15</b>	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
<b>25</b>	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
<b>37</b>	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.

**SHELL PLATING**

- 1. Nickel
- 2. Tin (Standard)

**CONTACT TYPE**

- M : MALE
- F : FEMALE

**NO. OF PINS**

- 09 : 09 POSITIONS
- 15 : 15 POSITIONS
- 25 : 25 POSITIONS
- 37 : 37 POSITIONS

**INSULATOR COLOR**

- 1. With Insulator Support
- 2. W/O Insulator Support

**SR TYPE**

- 1: Plastic Strain Relief
- 2: Metal Shell Strain Relief
- 3: Without Strain Relief

**INSULATOR COLOR**

- 1: Black (Standard)
- 2: Blue

**POSITION OF CLINCH NUT**

- 0.  $\varnothing$ 3.05mm [.120] Clearance Hole
- 5. Rear Rivet, 4.0mm[0.16]

**FLANGE MOUNTING OPTION**

(REFER TO BELOW FIGURE FOR DETAIL)

- 0.  $\varnothing$ 3.05mm [ $\varnothing$ 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**

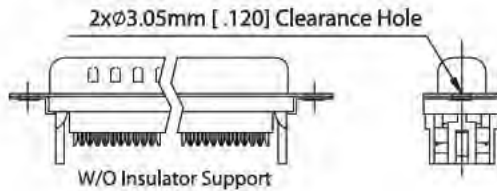
- N : Without Ferrite

**PIN TYPE**

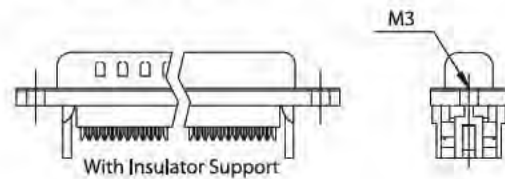
- S : STAMPED PIN

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

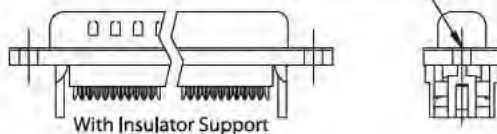
**0. 3.05mm [.120] Clearance Hole**



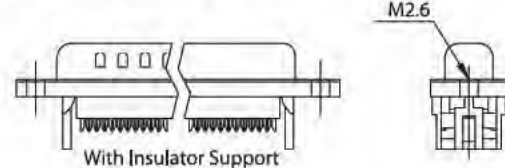
**4. M3 Female Thread**



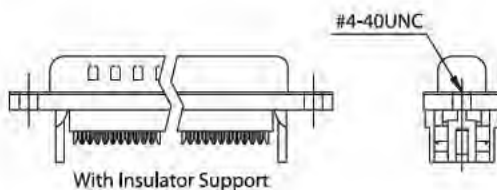
**2. 3.05mm [.120] Clearance Hole**



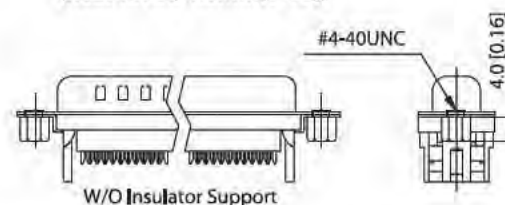
**7. M2.6 Female Thread**



**1. #4-40 Female Thread**



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





**SPECIFICATIONS**

**Material**

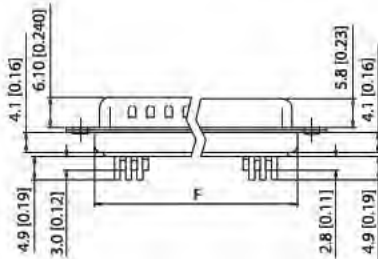
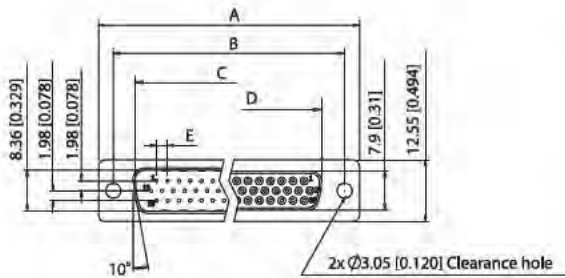
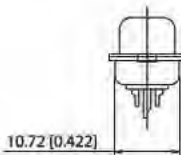
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Screwlock: Steel, Nickel Plated

**Electrical**

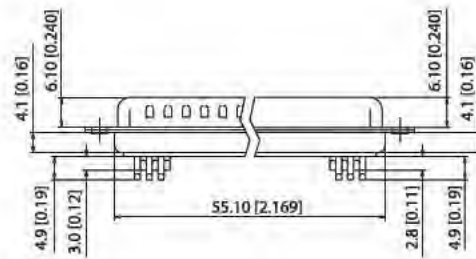
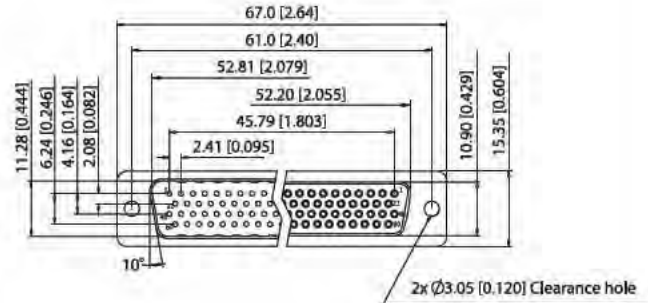
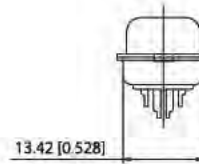
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

**DIMENSIONS**

**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
<b>15</b>	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
<b>26</b>	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
<b>44</b>	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
<b>62</b>	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**

**SDS104-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**

- 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.  $\varnothing$  3.05mm [ .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 x 6.0 L [0.13 x 0.24]

**FLANGE MOUNTING OPTION**

- 0.  $\varnothing$ 3.05mm [  $\varnothing$ .120] Clearance Hole
- 1. #4-40 Female Thread
- 2. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39])  
Female Screwlock Installed
- 3. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39])  
Female Screwlock Bulk-Packed
- 4. M3 Female Thread

**FERRITE**

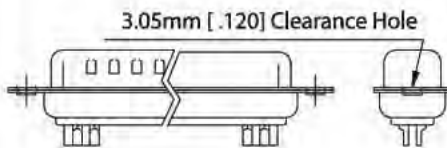
- N : Without Ferrite

**PIN TYPE**

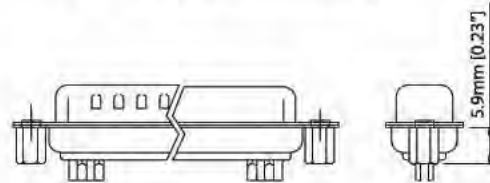
- S : STAMPED PIN
- M : MACHINED PIN

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

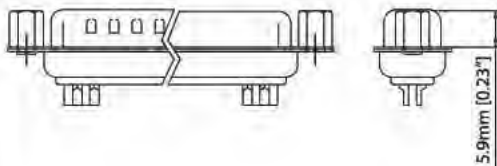
**0. 3.05mm [ .120] Clearance Hole**



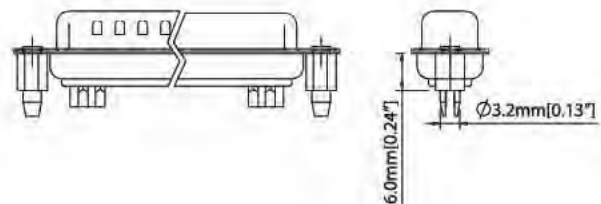
**2. Rear Rivet, 5.9mm[0.23]**



**1. Front Rivet, 5.9mm[0.23]**



**3. Rivet+2 Prong Boardlock  
 $\varnothing$ 3.2 x 6.0 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

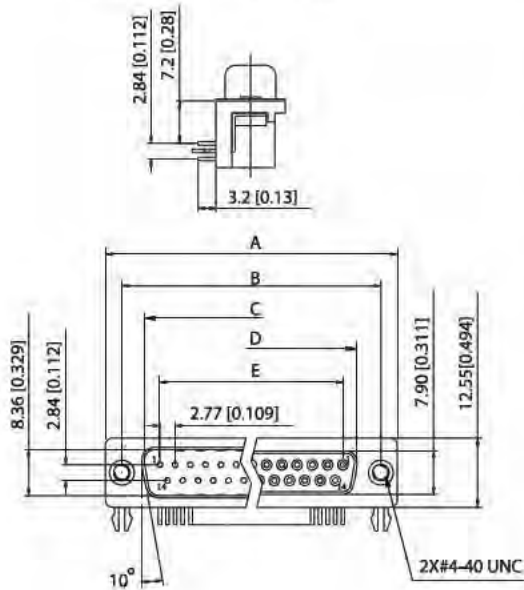
**Electrical**

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

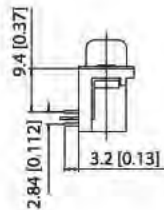
Sullins D-Sub

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

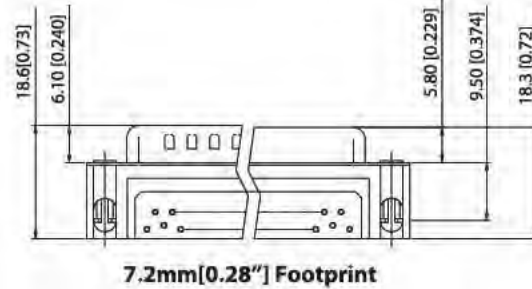
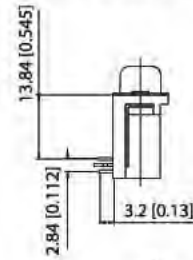
**7.2mm[0.28"] Footprint**



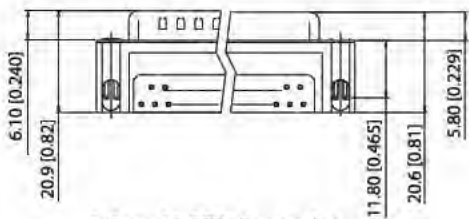
**9.4mm[0.37"] Footprint**



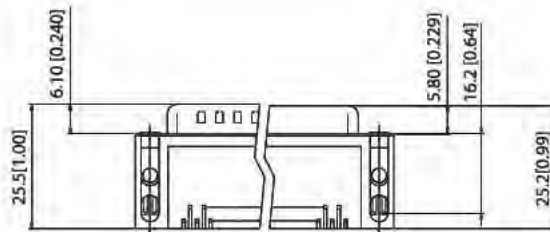
**13.84mm[0.545"] Footprint**



**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
<b>9</b>	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	11.08	0.436
<b>15</b>	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	19.39	0.763
<b>25</b>	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	33.24	1.309
<b>37</b>	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**

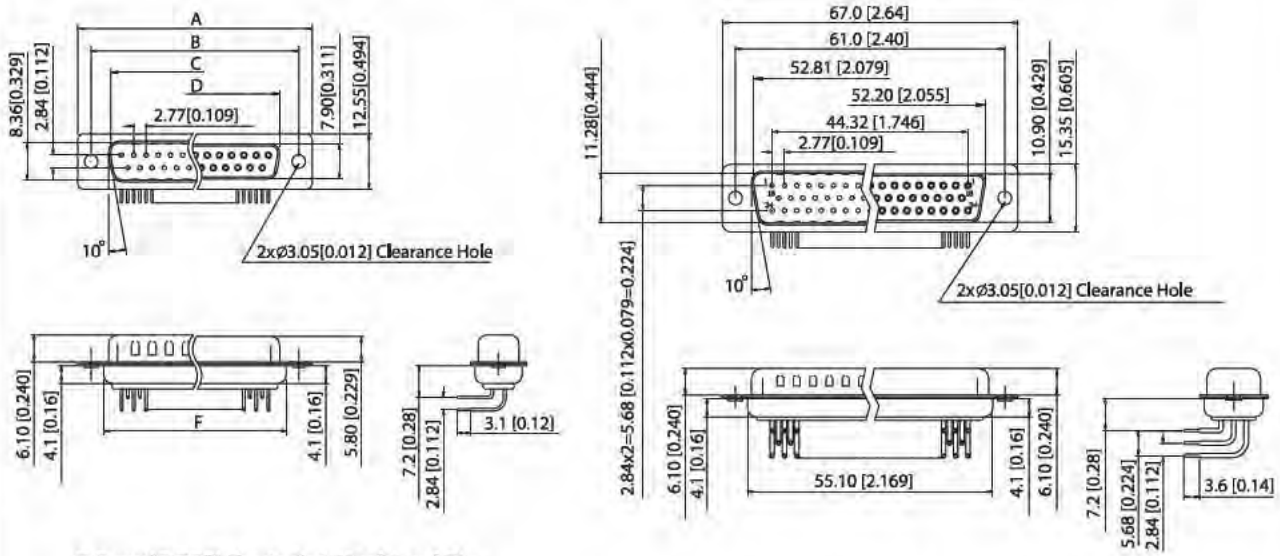
**Material**

- 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)

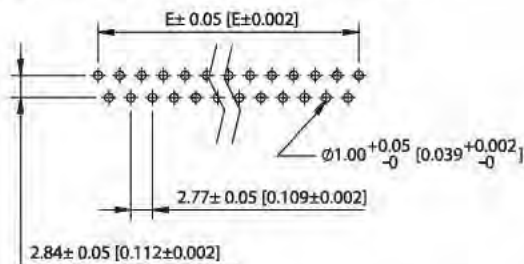


**7.2mm[0.28"] Footprint Machined Pin (W/O Rear Cover)**

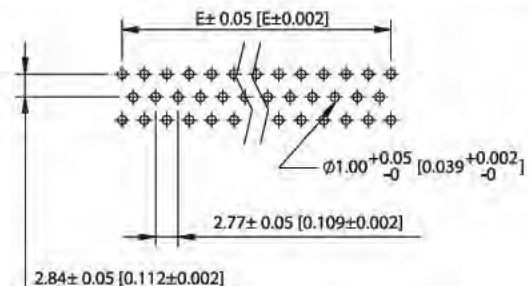
**50 Positions Machined Pin (W/O Rear Cover)**

Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
<b>9</b>	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
<b>15</b>	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
<b>25</b>	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
<b>37</b>	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**

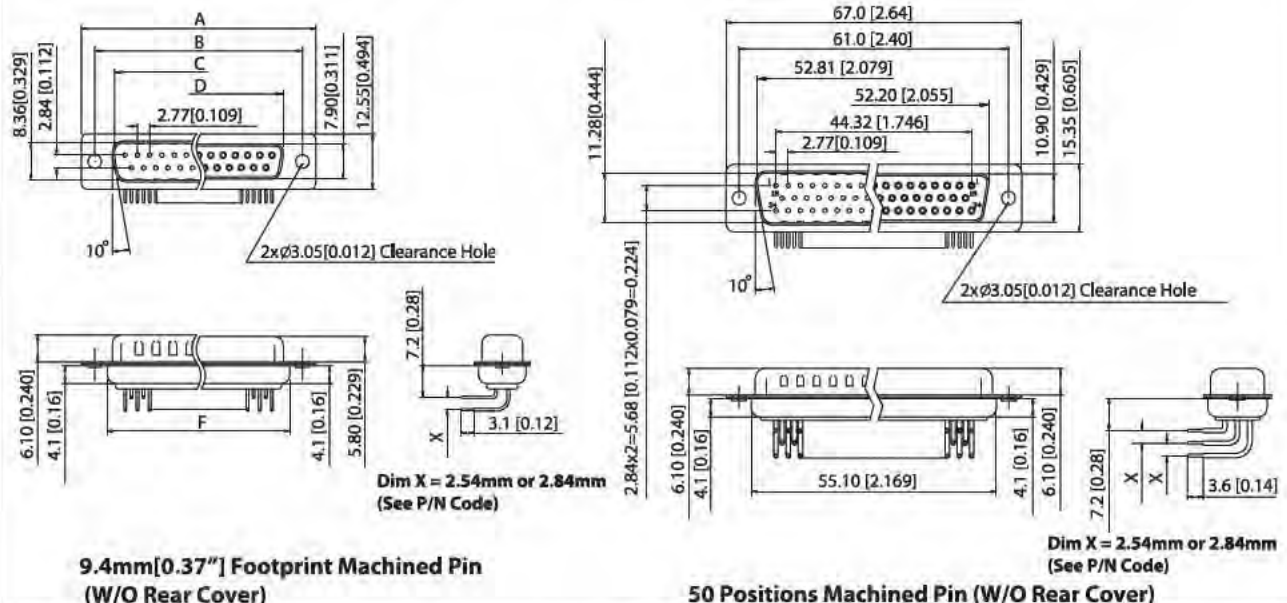
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

**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

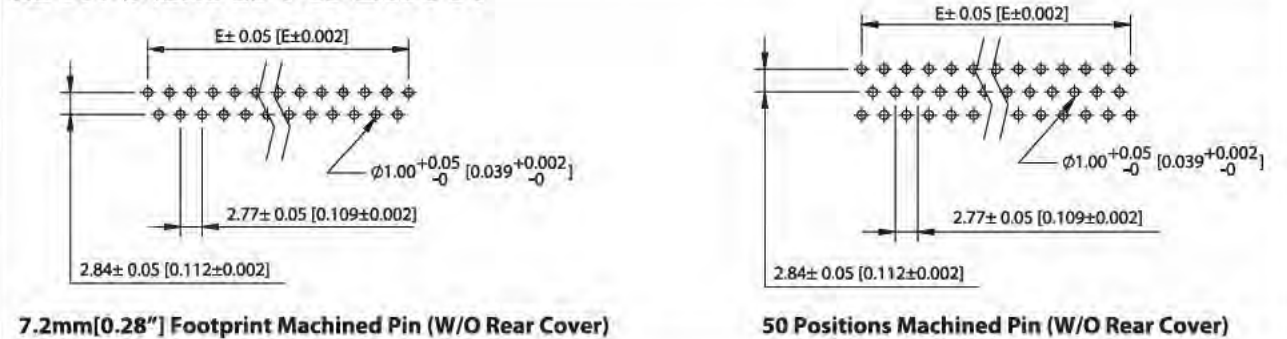
Sullins D-Sub

**DIMENSIONS** With 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**





**PART NUMBER OPTIONS**

SDS107-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.

N = .000050" Gold On Contact Surface,  
.000100" Pure Tin On Termination.

P = Gold Flash Overall

**SHELL PLATING**

- |                       |                   |
|-----------------------|-------------------|
| 1. Nickel             | 2. Tin (Standard) |
| 3. Cr+6 Yellow Chrome | 4. Gold Flash     |

**CONTACT TYPE**

M : MALE  
F : FEMALE

**NO. OF PINS**

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

**FOOTPRINT**

- 1: 7.2mm [0.28"] Footprint  
2: 9.4mm [0.37"] Footprint  
3: 13.84mm [0.545"] Footprint

**INSULATOR COLOR**

- 1: Black (Standard)      2: Blue

**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)

**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

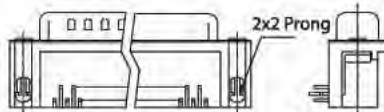
**FERRITE**

N : Without Ferrite

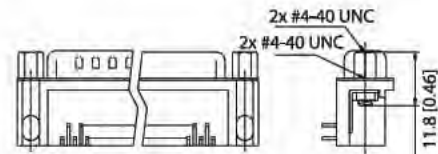
**PIN TYPE**

S : STAMPED PIN  
M : MACHINED PIN

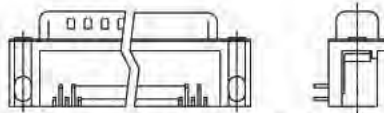
**RIVET OPTIONS & FLANGE MOUNTING OPTION**



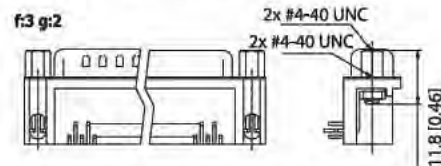
**Grounding Hook Boardlock+2 Prong (Tin)**  
(#4-40 Female Thread)



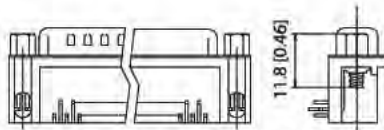
**Grounding Strap #4-40 Threaded on Spelling**  
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])  
Female Screwlock Installed)



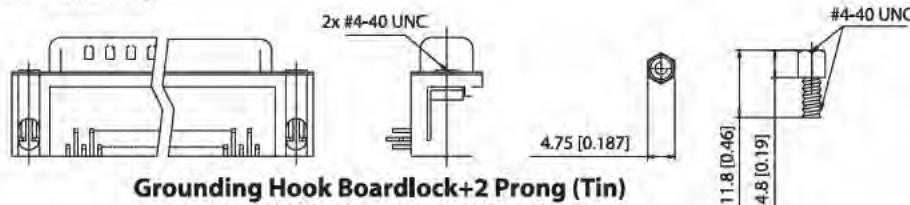
**Grounding Strap #4-40 Threaded on Spelling**  
(#4-40 Female Thread)



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



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



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



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

**SPECIFICATIONS**

**Material**

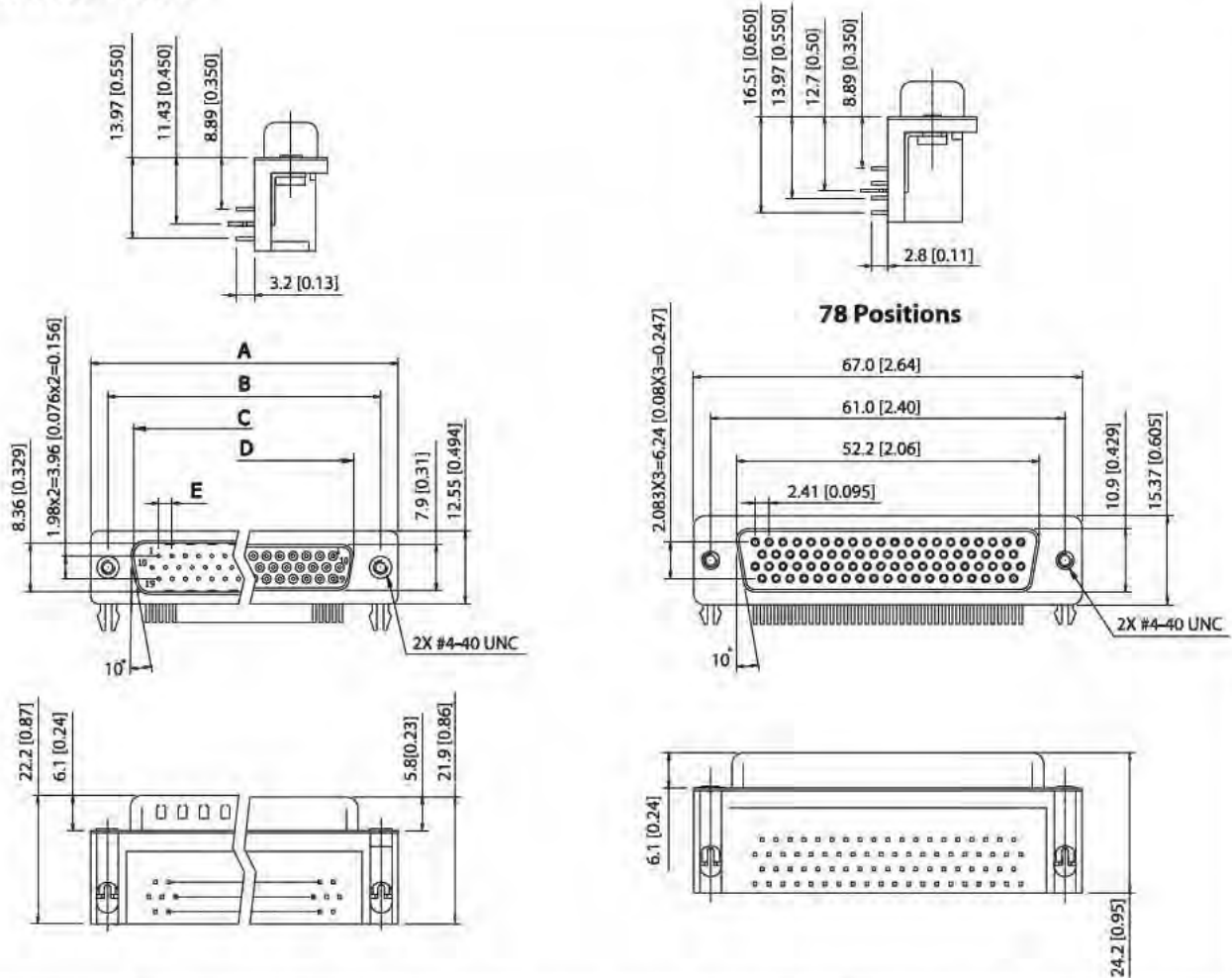
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

**Electrical**

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

Sullins D-Sub

**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



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

Sullins D-Sub

**PART NUMBER OPTIONS**

SDS108-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.
- N = .000050" Gold On Contact Surface,  
.000100" Pure Tin On Termination.
- P = Gold Flash Overall

**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

**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

**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

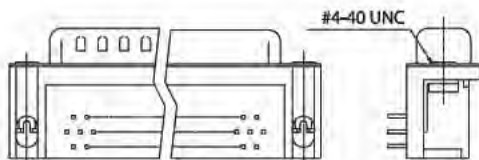
**FERRITE**

- N : Without Ferrite

**PIN TYPE**

- S : STAMPED PIN
- M : MACHINED PIN

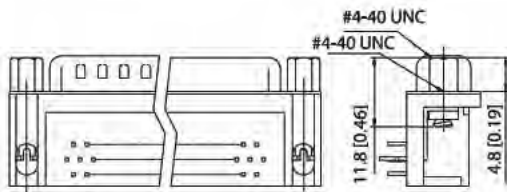
**RIVET OPTIONS & FLANGE MOUNTING OPTION**



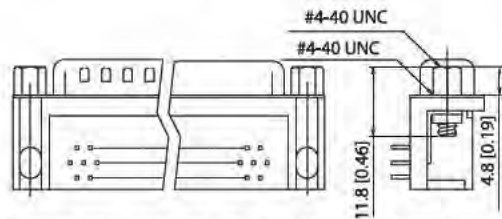
**Grounding Hook Boardlock+2 Prong**  
(#4-40 Female Thread)



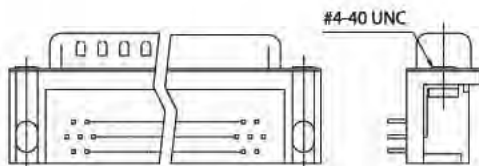
**Grounding Hook Boardlock+2 Prong**  
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])  
Female Screwlock Bulk-Packed)



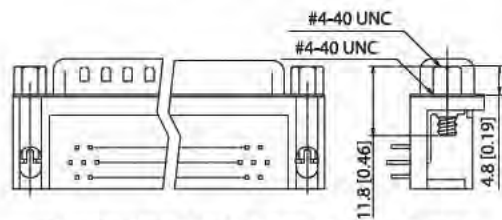
**Grounding Hook Boardlock+2 Prong**  
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])  
Female Screwlock Installed)



**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)



**D-Sub High Profile Straight Type - 155 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

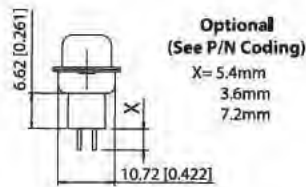
**Electrical**

- 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

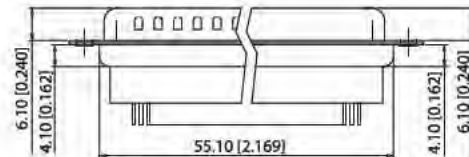
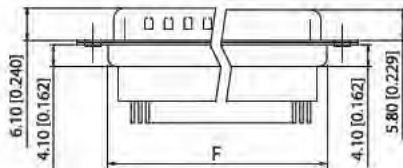
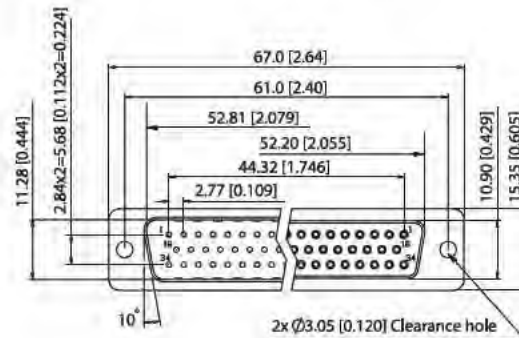
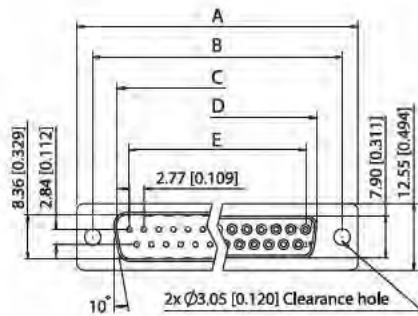
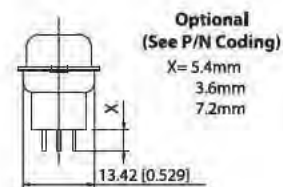
Sullins D-Sub

**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
<b>9</b>	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
<b>15</b>	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
<b>25</b>	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
<b>37</b>	69.40	2.732	63.50	2.500	55.42	2.182	54.80	2.158	49.86	1.963	57.30	2.256





**D-Sub High Profile Straight Type - 155 SERIES**

**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
- 1. Nickel
- 2. Tin (Standard)
- 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.  $\varnothing 3.05\text{mm}$  [ .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
- 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**

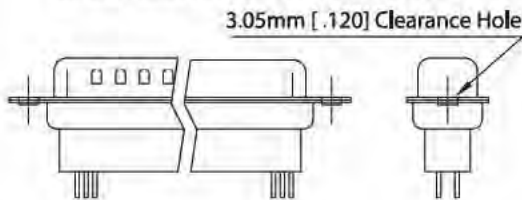
- N : Without Ferrite

**PIN TYPE**

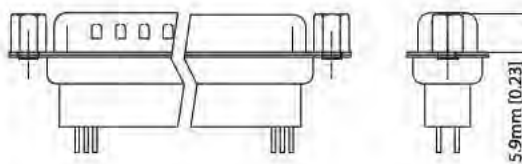
- S : STAMPED PIN : 5.4mm [0.21]
- M : MACHINED PIN : 5.4mm [0.21]
- Q : STAMPED PIN : 3.6mm [0.14]
- R : STAMPED PIN : 7.2mm [0.28]

**RIVET OPTIONS**

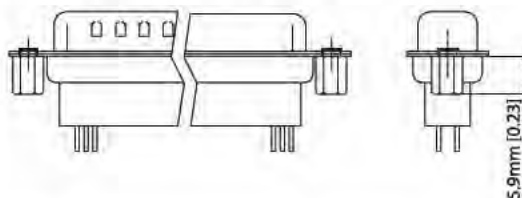
**0. 3.05mm [ .120 ] Clearance Hole**



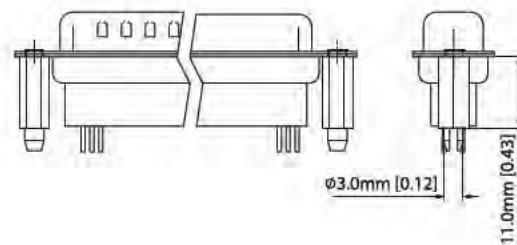
**1. Front Rivet, 5.9mm[0.23]**



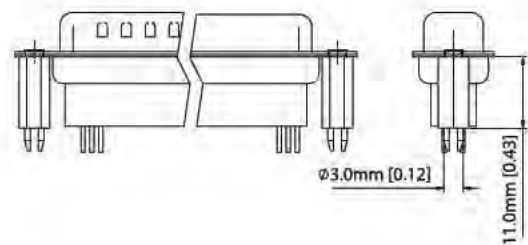
**2. Rear Rivet, 5.9mm[0.23]**



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



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





**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

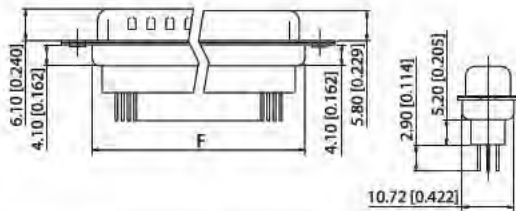
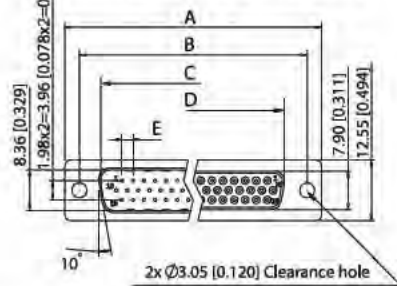
**Electrical**

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

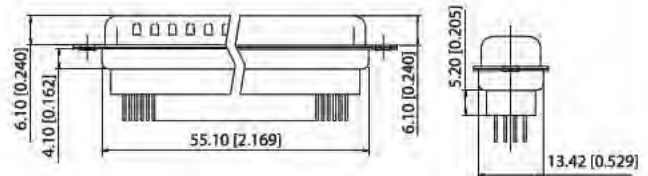
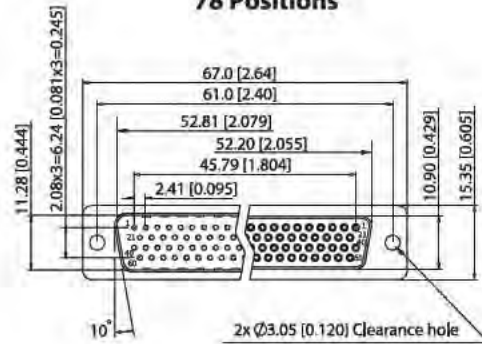
Sullins D-Sub

**DIMENSIONS**

**15,26,44,62 Positions**



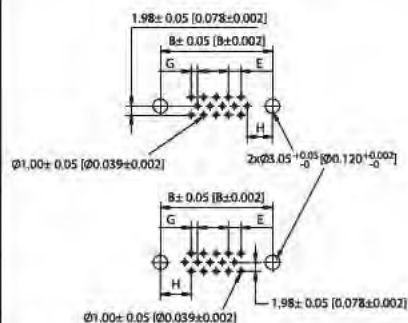
**78 Positions**



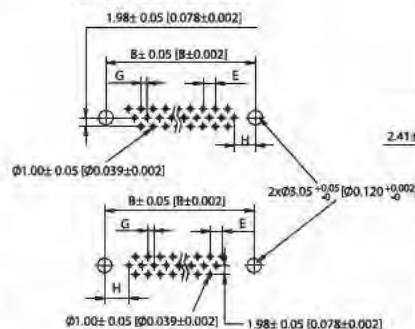
Positions	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
15	30.81	1.213	24.99	0.984	16.92	0.666	16.33	0.643	11.08	0.436	19.20	0.756
26	39.20	1.543	33.30	1.311	25.25	0.994	24.70	0.972	19.39	0.763	27.70	1.091
44	53.05	2.088	47.04	1.852	38.96	1.534	38.40	1.512	33.24	1.309	41.10	1.618
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**

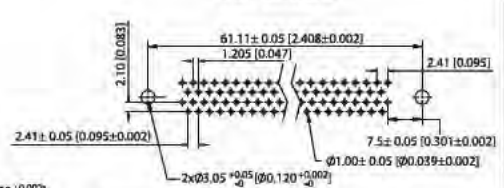
**15 Positions**



**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



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

Sullins D-Sub

**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
- 1. Nickel
- 2. Tin (Standard)
- 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**

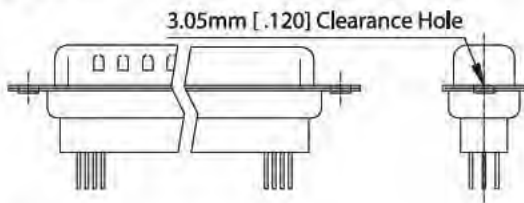
- N : Without Ferrite

**PIN TYPE**

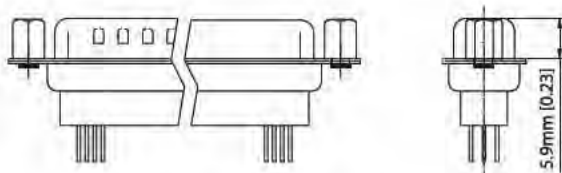
- S : STAMPED PIN : 5.4mm [0.21]
- M : MACHINED PIN : 5.4mm [0.21]
- Q : STAMPED PIN : 3.6mm [0.14]
- R : STAMPED PIN : 7.2mm [0.28]
- T : MACHINED PIN : 7.5mm [0.30]

**RIVET OPTIONS**

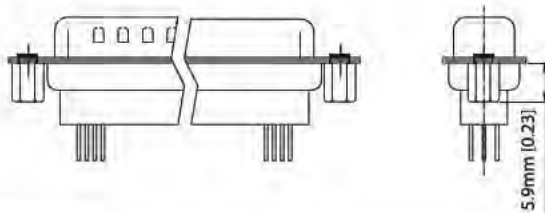
**0. 3.05mm [ .120 ] Clearance Hole**



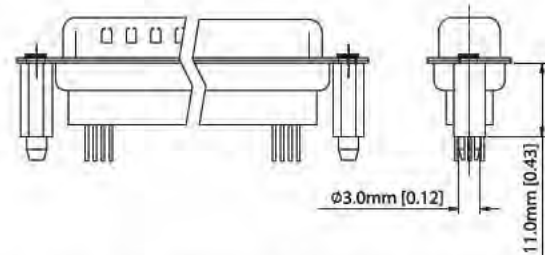
**1. Front Rivet, 5.9mm [0.23]**



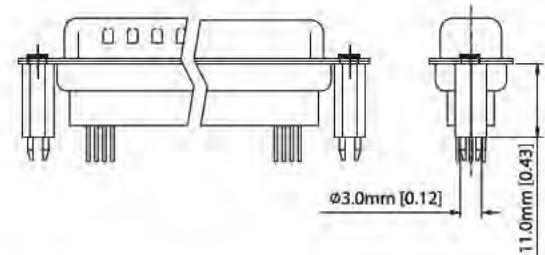
**2. Rear Rivet, 5.9mm [0.23]**



**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]**





**D-Sub Right Angle Slim Type - 223 SERIES**

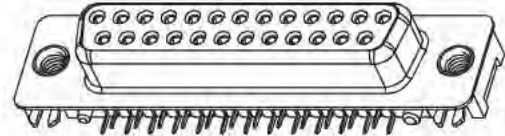
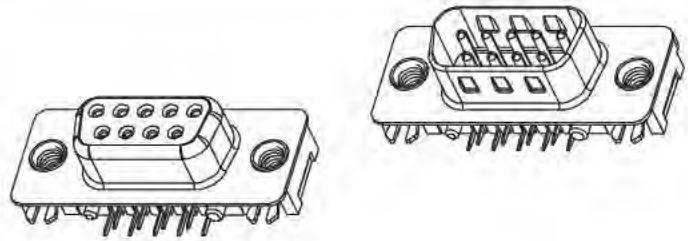
**SPECIFICATIONS**

**Material**

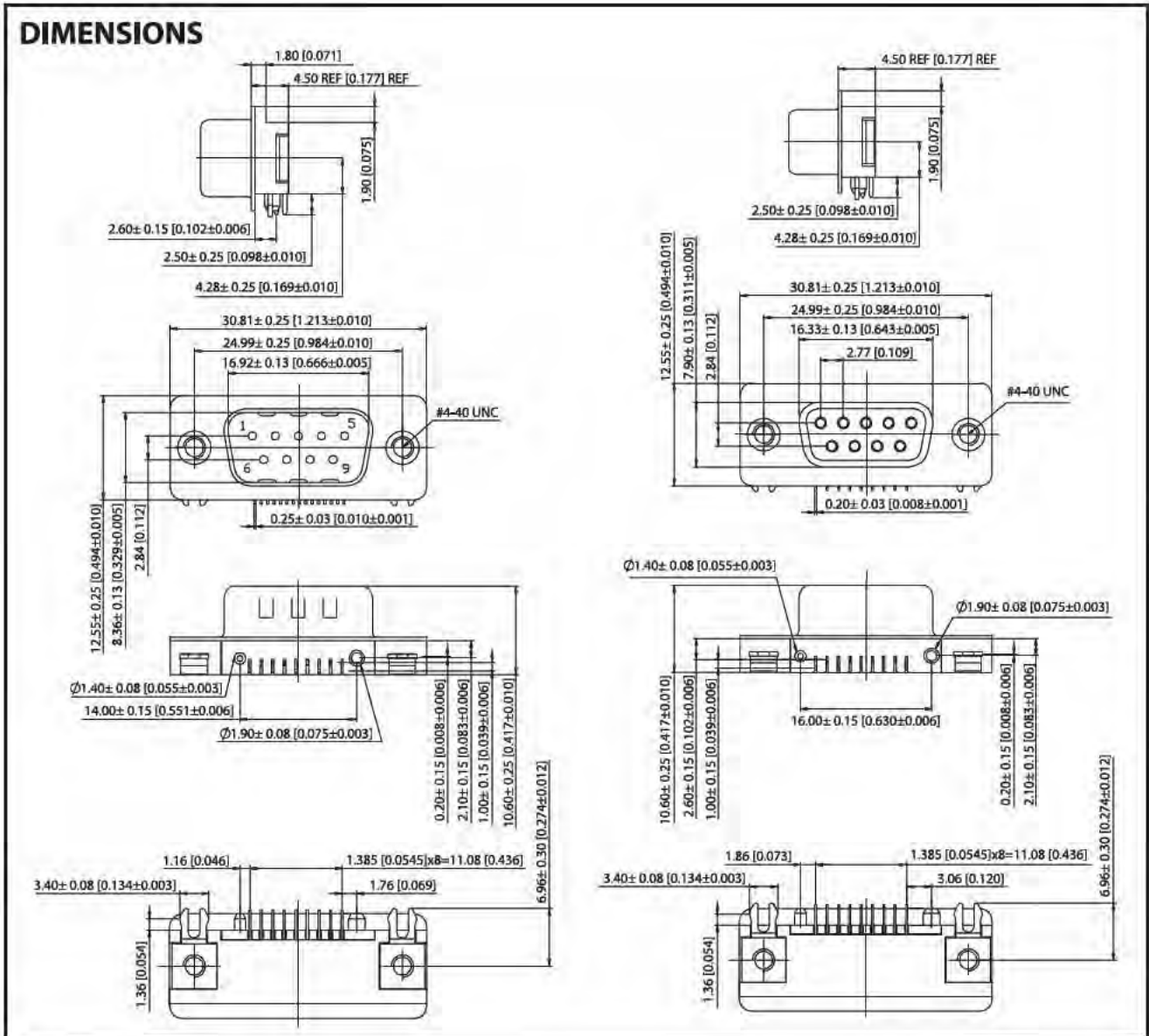
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

**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**





**D-Sub Right Angle Slim Type - 223 SERIES**

Sullins D-Sub

**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. Cr<sup>+3</sup> Yellow Chrome  
2. Tin (Standard)

1. Nickel  
3. Cr<sup>+6</sup> 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

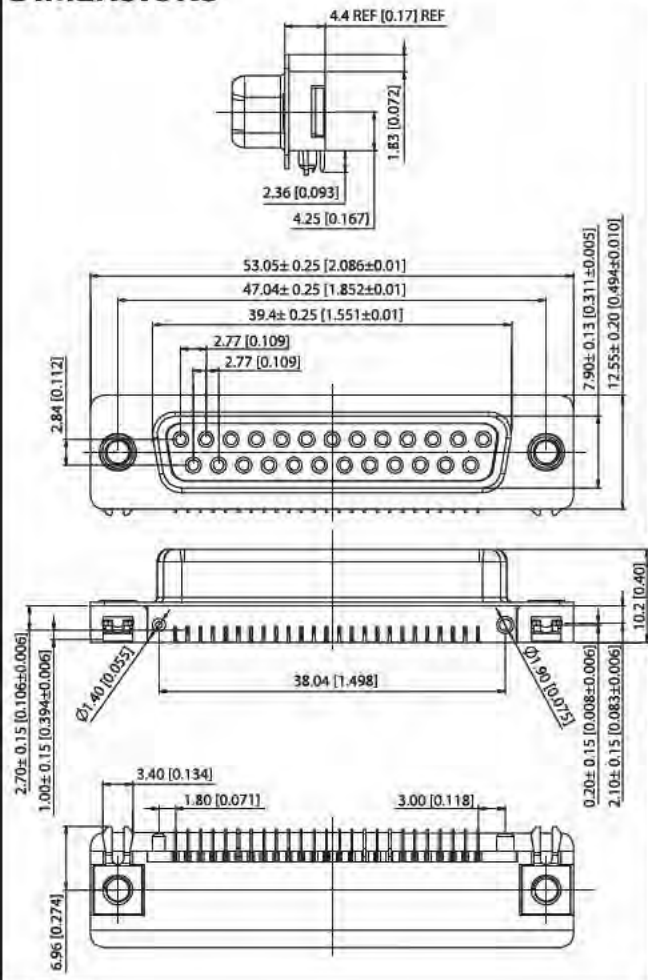
**FERRITE**

N : Without Ferrite

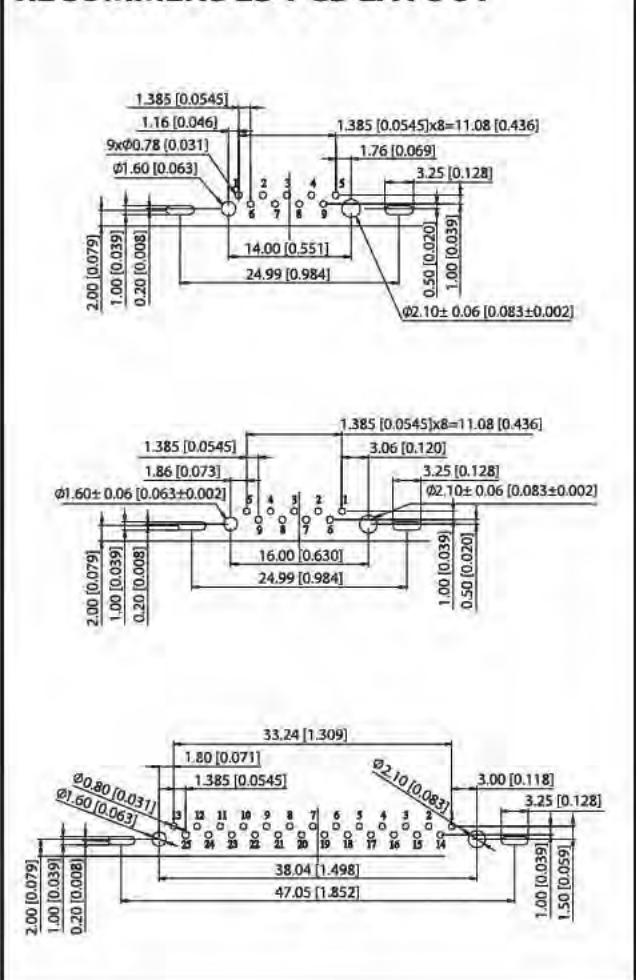
**PIN TYPE**

S : STAMPED PIN

**DIMENSIONS**



**RECOMMENDED PCB LAYOUT**





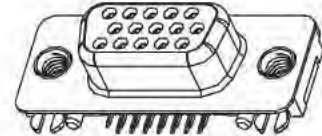
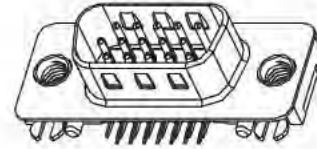
### SPECIFICATIONS

#### Material

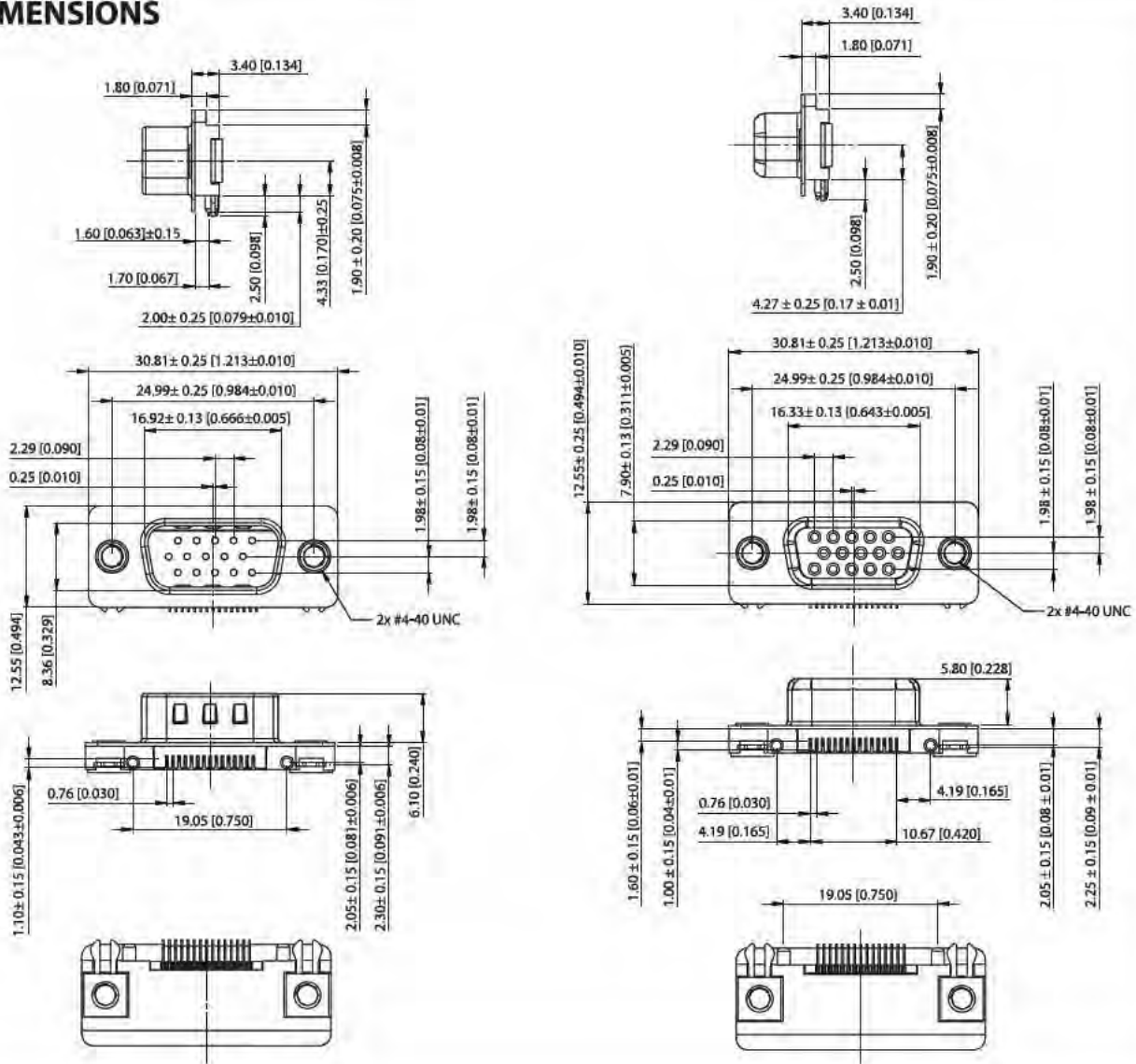
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

#### Electrical

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

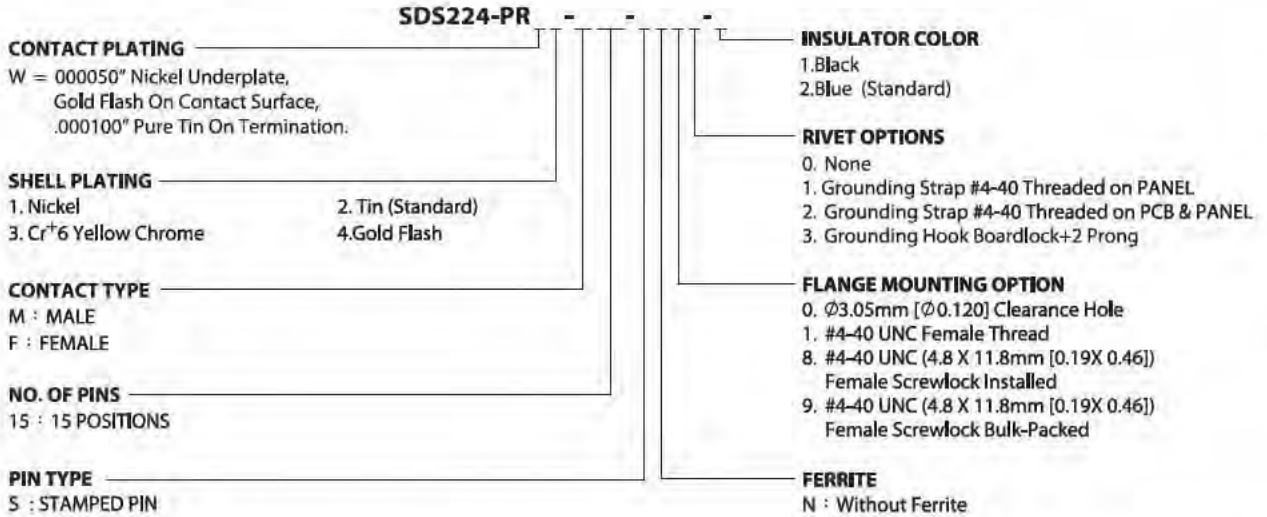


### DIMENSIONS





**PART NUMBER OPTIONS**



Sullins D-Sub

**RECOMMENDED PCB LAYOUT**

