



## 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

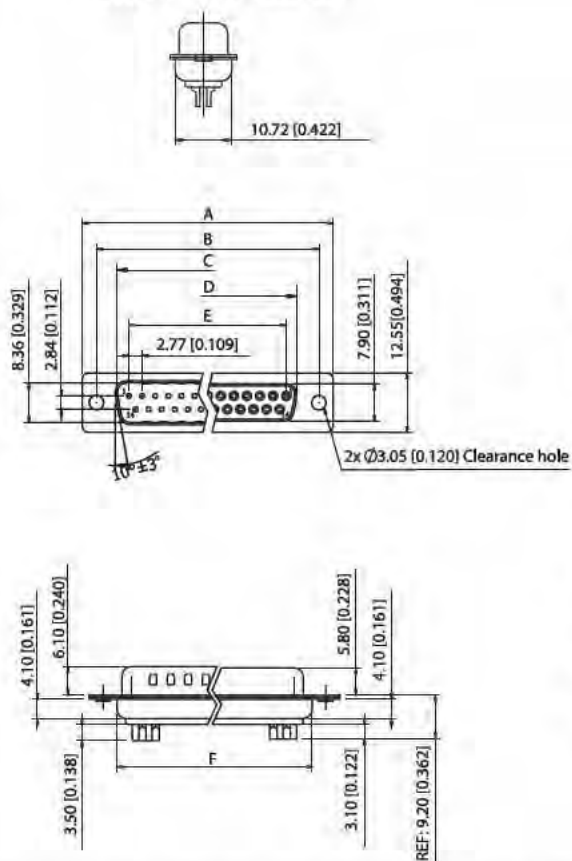
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

## Electrical

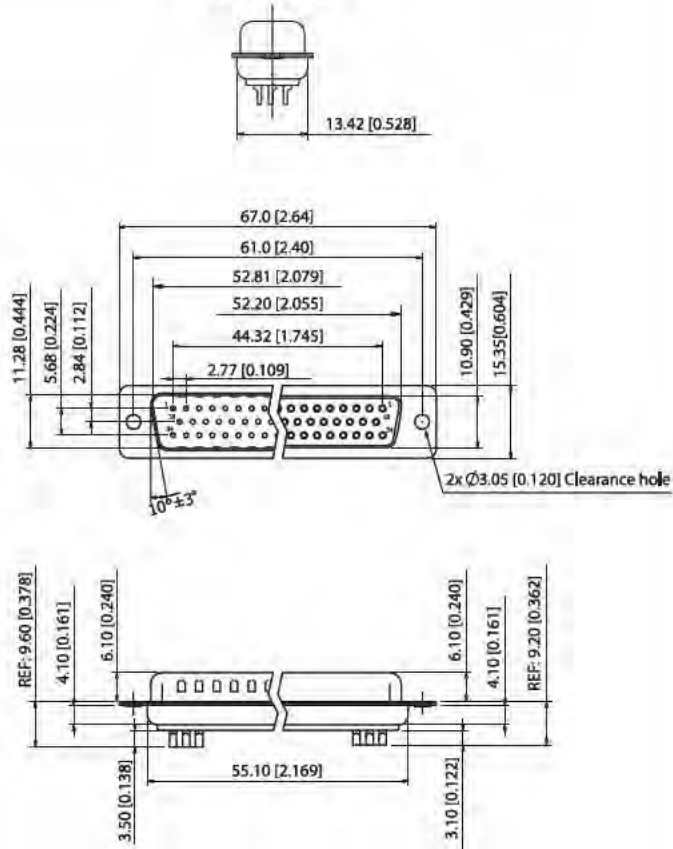
- **Contact Resistance:** 20m OHMs Max at 1 Amp DC.
- **Insulation Resistance:** 1000 MegOHMs at 500 VDC.
- **Dielectric withstanding Voltage:** 1000 Vac/Rms 60Hz for 1 Minute
- **Current Rating:** 3 Amps
- **Voltage Rating:** 250 Vac/Rms 60Hz

## 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 |

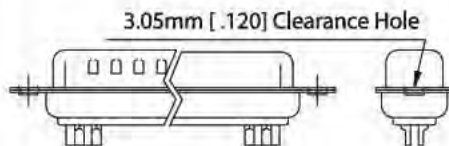


**PART NUMBER OPTIONS**

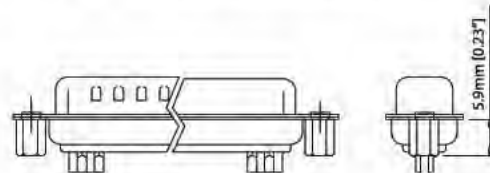
| SDS100-PR - - -                                                                                                                                                                                                                                                                                           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

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

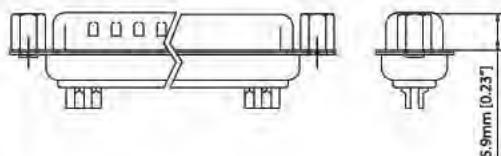
**0. 3.05mm [.120] Clearance Hole**



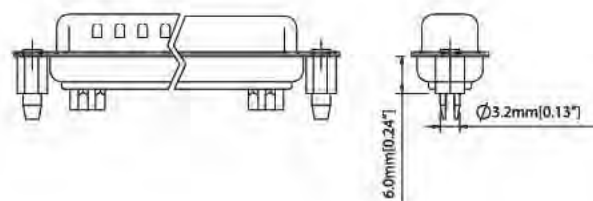
**2. Rear Rivet, 5.9mm[0.23]**



**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

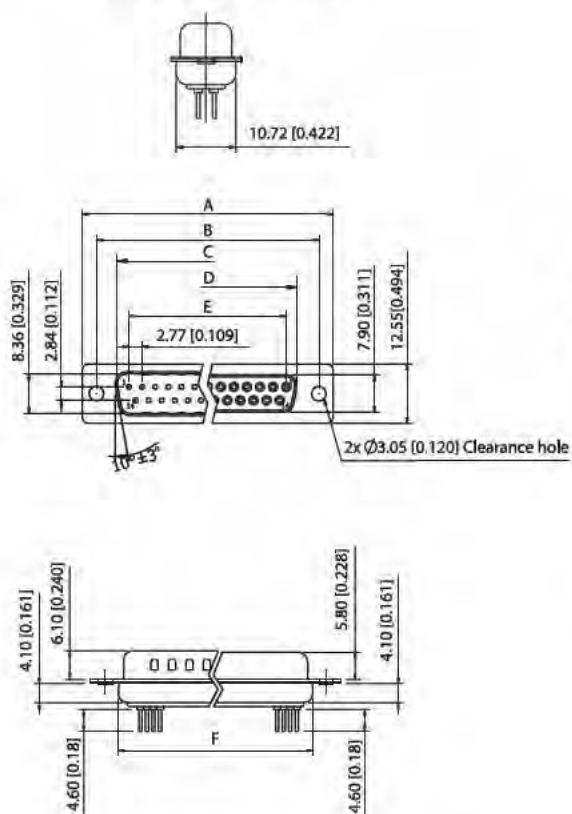
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

### Electrical

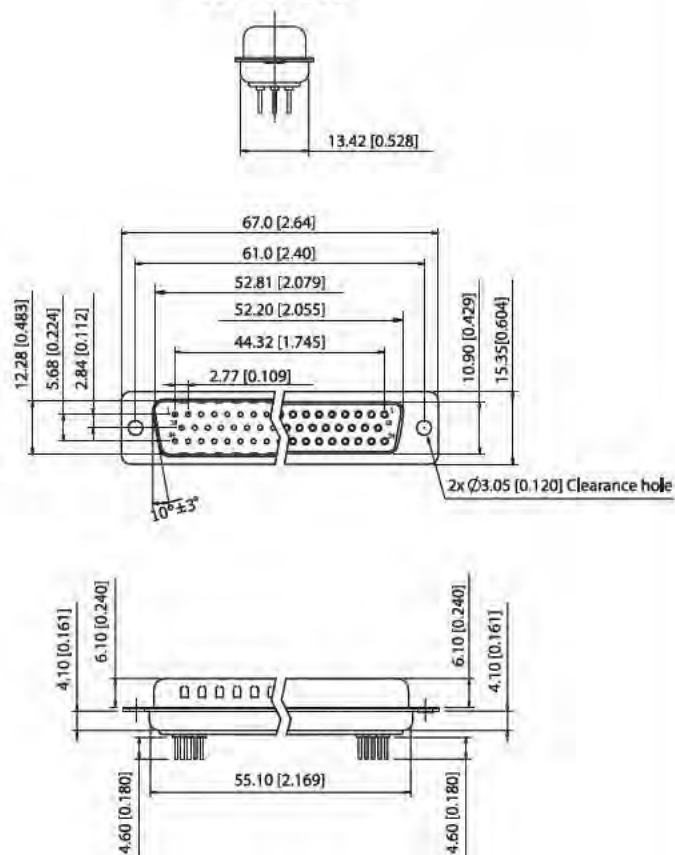
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

## 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  |
| <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 |



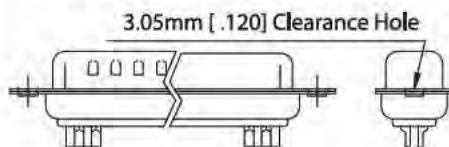


**PART NUMBER OPTIONS**

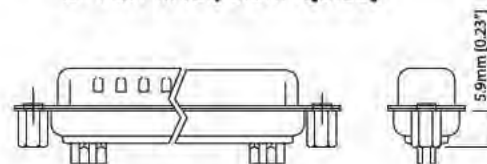
| SDS101-PR                                                                  |                       |                                                                                 |
|----------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------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

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

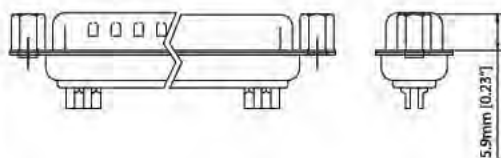
**0. 3.05mm [ .120 ] Clearance Hole**



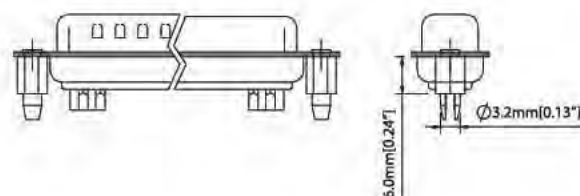
**2. Rear Rivet, 5.9mm[0.23]**



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

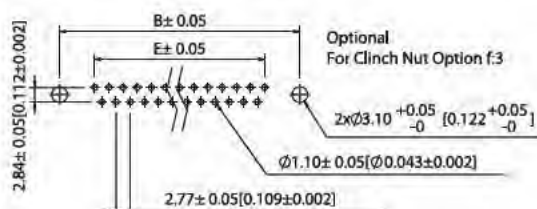


**3. Rivet+2 Prong Boardlock**  
 $\varnothing 3.2 \times 6.0 \text{ L}$  [0.13 x 0.24]

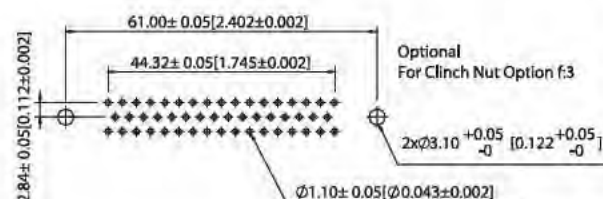


**RECOMMENDED PCB LAYOUT**

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



**50 Positions**





## SPECIFICATIONS

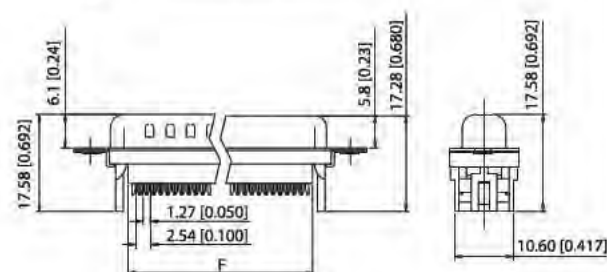
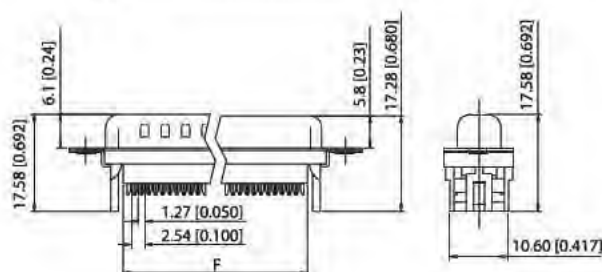
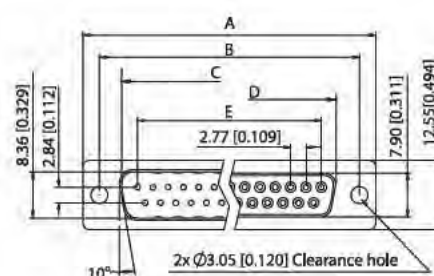
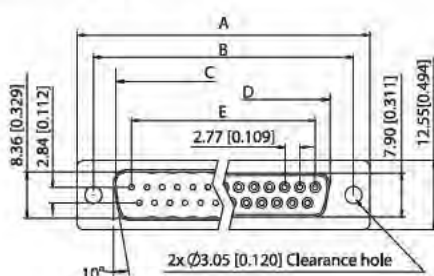
### Material

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

### Electrical

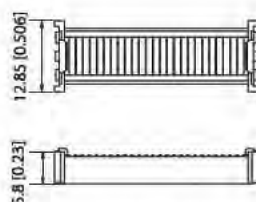
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MagOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

## DIMENSIONS

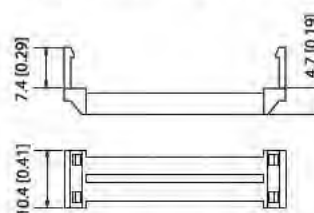


Without Insulator Support

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  |
| 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

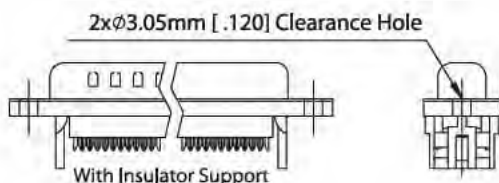
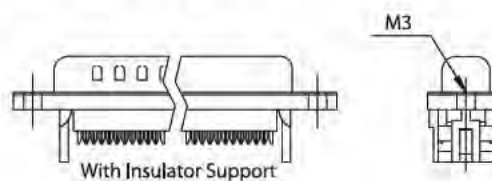
|                                                                            |  |                                                                       |  |
|----------------------------------------------------------------------------|--|-----------------------------------------------------------------------|--|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

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

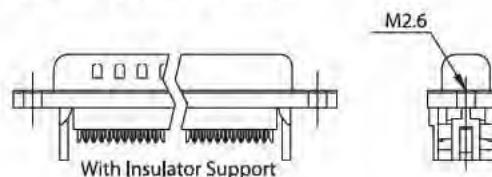
### 0. 3.05mm [ .120] Clearance Hole



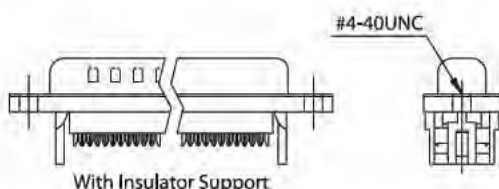
### 4. M3 Female Thread



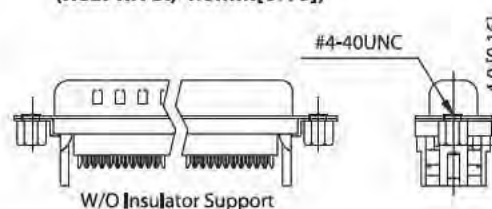
### 7. M2.6 Female Thread



### 1. #4-40 Female Thread



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





## SPECIFICATIONS

### Material

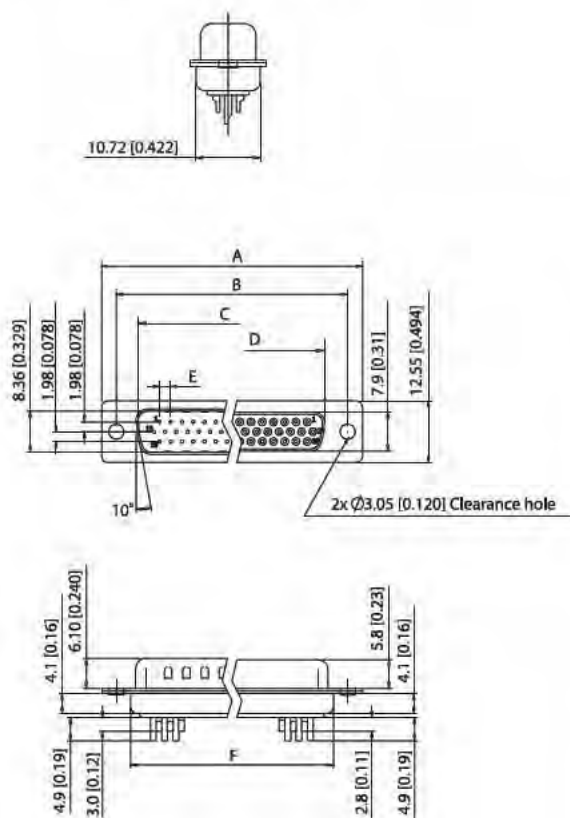
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Screwlock: Steel, Nickel Plated

### Electrical

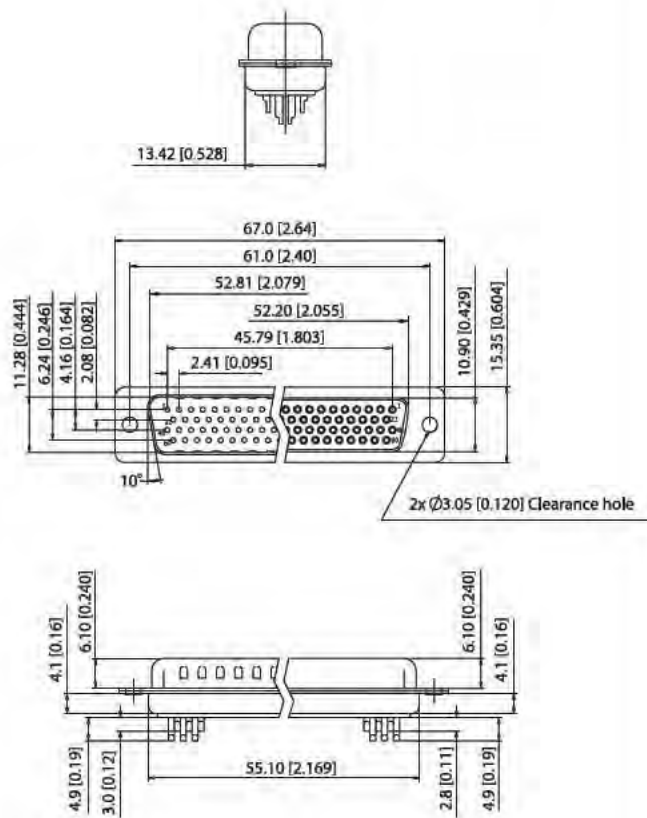
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

## 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 |



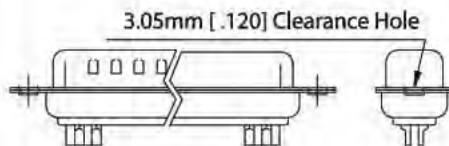


**PART NUMBER OPTIONS**

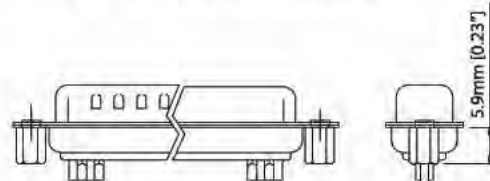
|                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>CONTACT PLATING</b><br>(All Platings Have .000050" Nickel Underplate)<br>W = Gold Flash On Contact Surface,<br>.000100" Pure Tin On Termination.<br>B = .000010" Gold On Contact Surface,<br>.000100" Pure Tin On Termination.<br>U = .000015" Gold On Contact Surface,<br>.000100" Pure Tin On Termination.<br>C = .000030" Gold On Contact Surface,<br>.000100" Pure Tin On Termination. |  | <b>INSULATOR COLOR</b><br>1. Black (Standard)    2. Blue<br>6. White                                                                                                                                                                                                                           |  |
| <b>SHELL PLATING</b><br>1. Nickel<br>2. Tin (Standard)                                                                                                                                                                                                                                                                                                                                        |  | <b>POSITION OF CLINCH NUT</b><br>(REFER TO BELOW FIGURE FOR DETAIL)<br>0. $\varnothing 3.05\text{mm}$ [.120] Clearance Hole<br>1. Front Rivet, 5.9mm[0.23]<br>2. Rear Rivet, 5.9mm[0.23]<br>3. Rivet+2 Prong Boardlock $\varnothing 3.2 \times 6.0 \text{ L}$ [0.13 x 0.24]                    |  |
| <b>CONTACT TYPE</b><br>M : MALE<br>F : FEMALE                                                                                                                                                                                                                                                                                                                                                 |  | <b>FLANGE MOUNTING OPTION</b><br>0. $\varnothing 3.05\text{mm}$ [.120] Clearance Hole<br>1. #4-40 Female Thread<br>2. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39])<br>Female Screwlock Installed<br>3. #4-40 UNC (5.0 X 10.0mm [0.20 X 0.39])<br>Female Screwlock Bulk-Packed<br>4. M3 Female Thread |  |
| <b>NO. OF PINS</b><br>15 : 15 POSITIONS<br>26 : 26 POSITIONS<br>44 : 44 POSITIONS<br>62 : 62 POSITIONS<br>78 : 78 POSITIONS                                                                                                                                                                                                                                                                   |  | <b>FERRITE</b><br>N : Without Ferrite                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>PIN TYPE</b><br>S : STAMPED PIN<br>M : MACHINED PIN                                                                                                                                                                                                                                         |  |

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

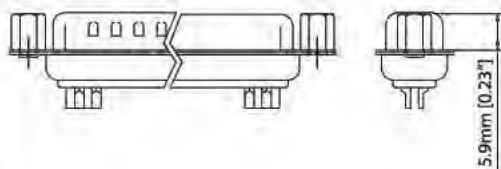
**0. 3.05mm [.120] Clearance Hole**



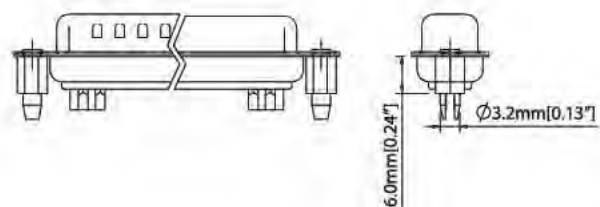
**2. Rear Rivet, 5.9mm[0.23]**



**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]





## D-Sub Right Angle Type - 107 SERIES

### SPECIFICATIONS

#### Material

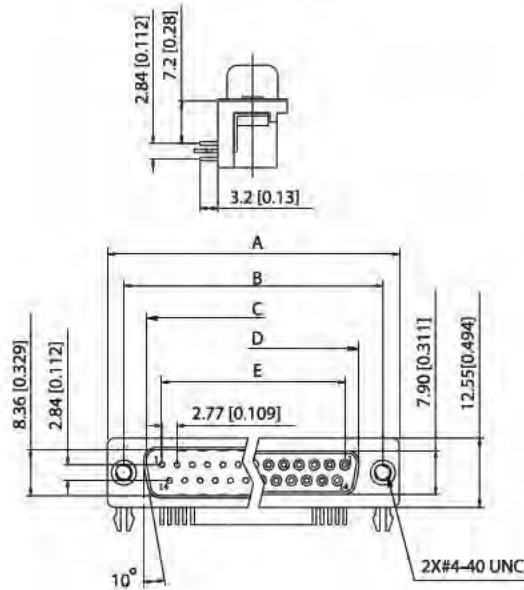
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

#### Electrical

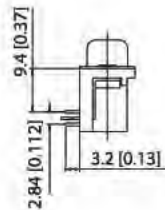
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

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

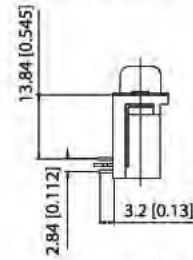
7.2mm[0.28"] Footprint



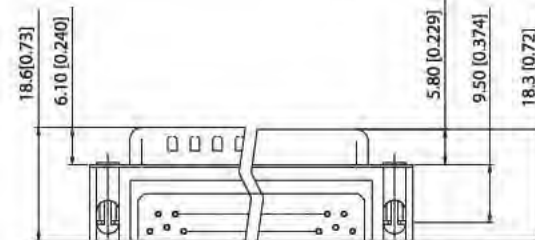
9.4mm[0.37"] Footprint



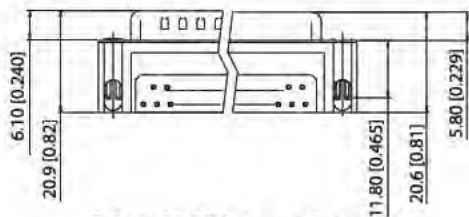
13.84mm[0.545"] Footprint



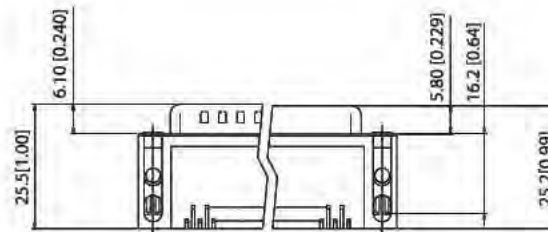
7.2mm[0.28"] Footprint



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

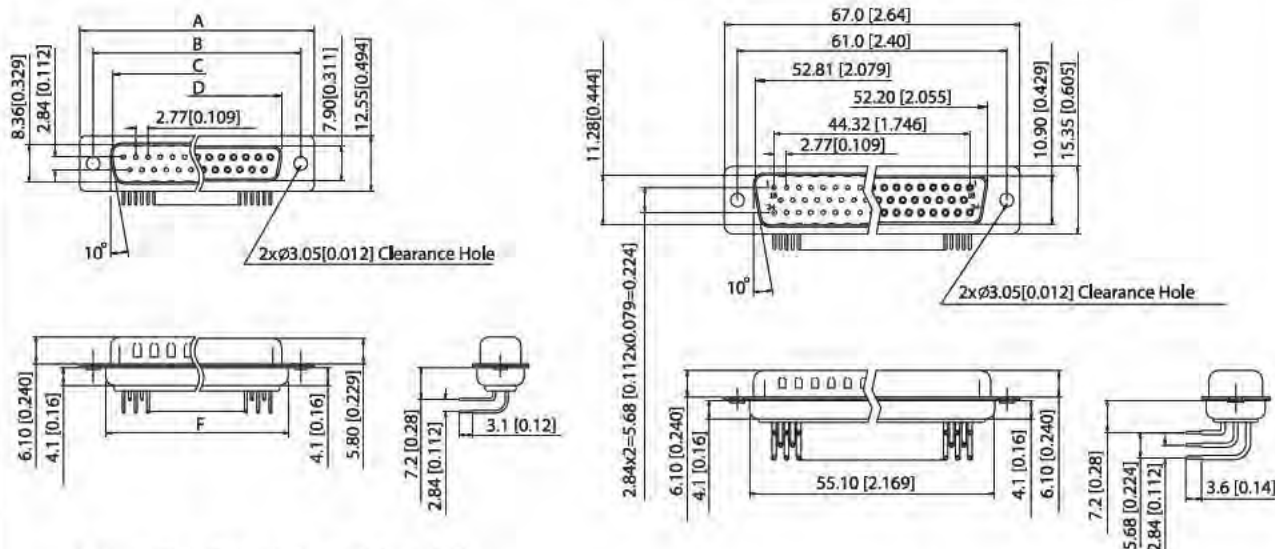
### Material

- 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)

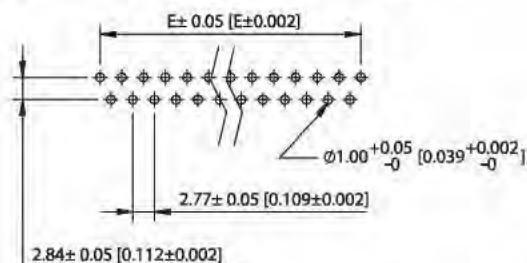


**7.2mm[0.28"] Footprint Machined Pin  
(W/O Rear Cover)**

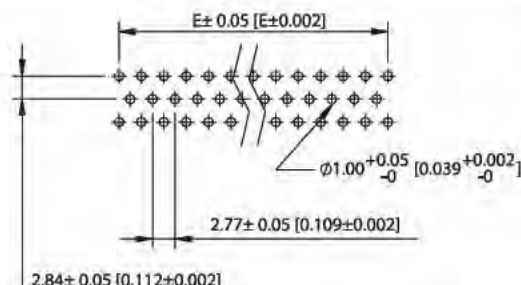
**50 Positions Machined Pin (W/O Rear Cover)**

| Positions | A     |       | B     |       | C     |       | D     |       | E     |       | F     |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           | mm    | inch  | mm    | inch  | mm    | inch  | mm    | inch  | mm    | inch  | mm    | inch  |
| <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

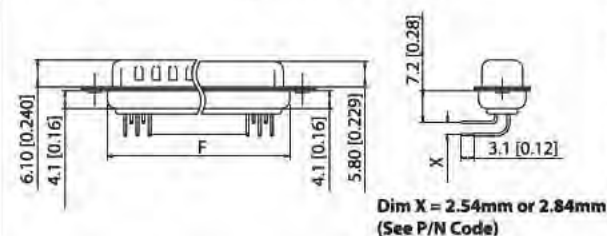
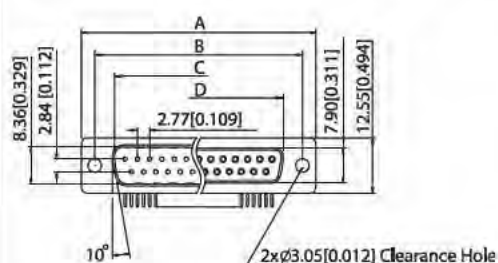
#### Material

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

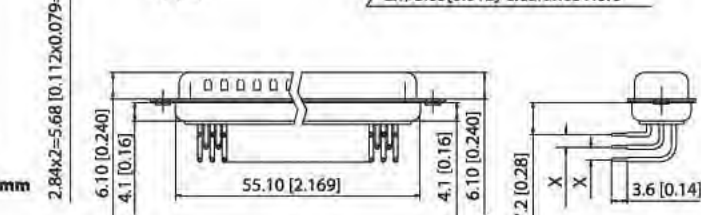
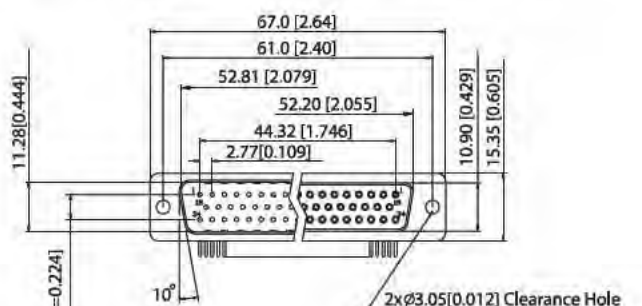
#### Electrical

- 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

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



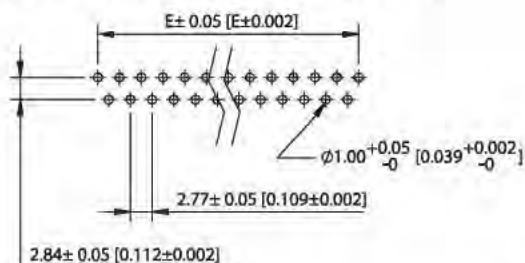
**9.4mm[0.37"] Footprint Machined Pin  
(W/O Rear Cover)**



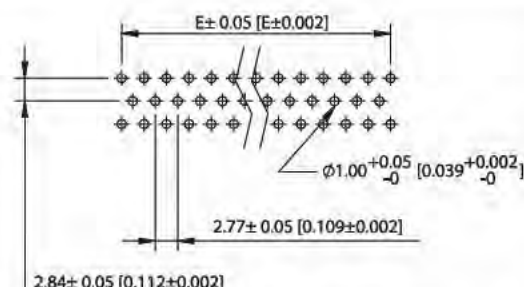
**50 Positions Machined Pin (W/O Rear Cover)**

| 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**

**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<sup>+</sup>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

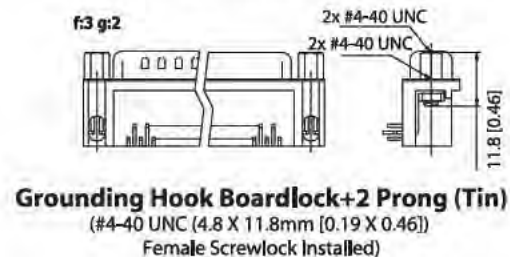
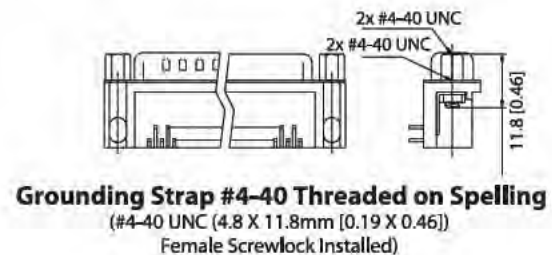
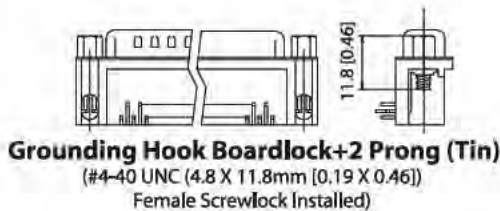
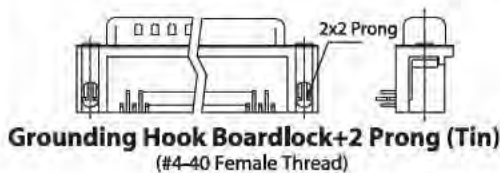
**RIVET OPTIONS (REFER TO BELOW FIGURE FOR DETAIL)**  
0. None    1. Grounding Strap #4-40 Threaded on PANEL  
2. Grounding Strap #4-40 Threaded on PCB & PANEL  
3. Grounding Hook Boardlock+2 Prong (Tin)

**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**







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

### SPECIFICATIONS

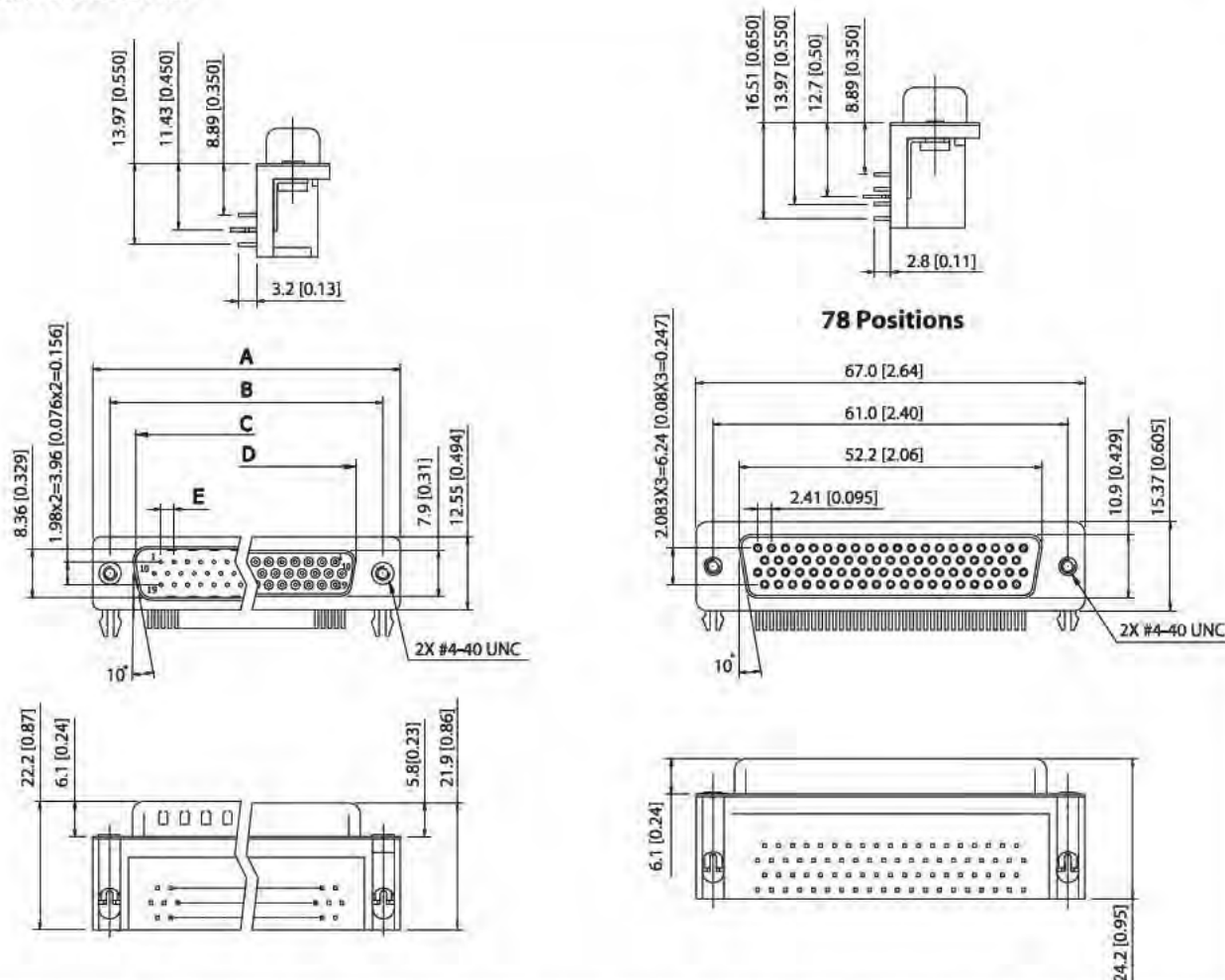
#### Material

- 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

### 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 |

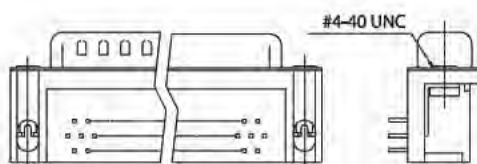




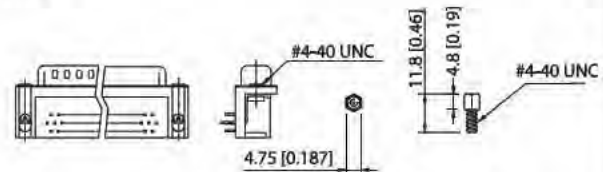
**PART NUMBER OPTIONS**

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

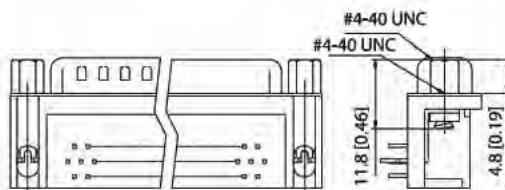
**RIVET OPTIONS & FLANGE MOUNTING OPTION**



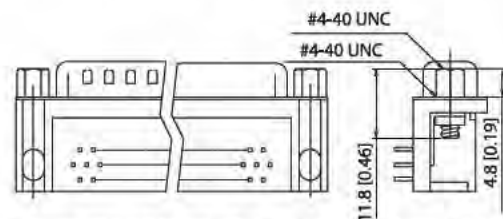
**Grounding Hook Boardlock+2 Prong**  
(#4-40 Female Thread)



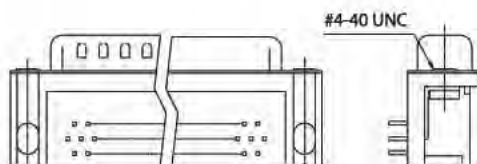
**Grounding Hook Boardlock+2 Prong**  
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])  
Female Screwlock Bulk-Packed)



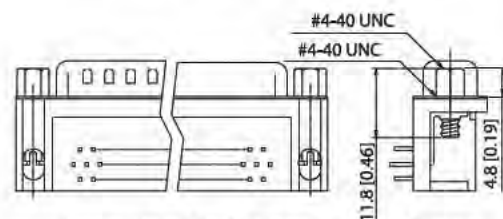
**Grounding Hook Boardlock+2 Prong**  
(#4-40 UNC (4.8 X 11.8mm [0.19 X 0.46])  
Female Screwlock Installed)



**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

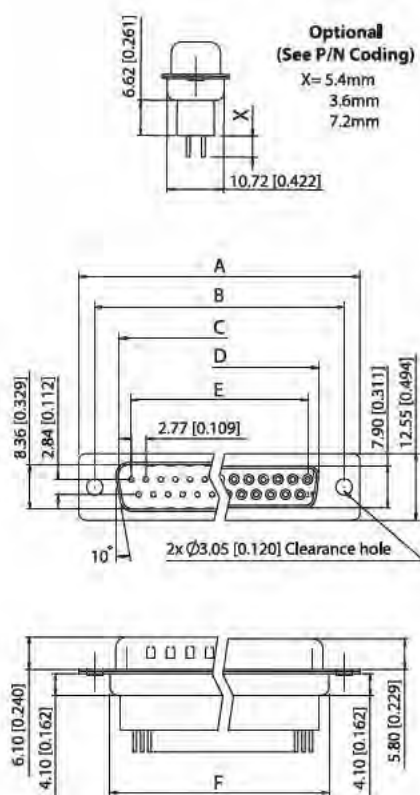
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

### Electrical

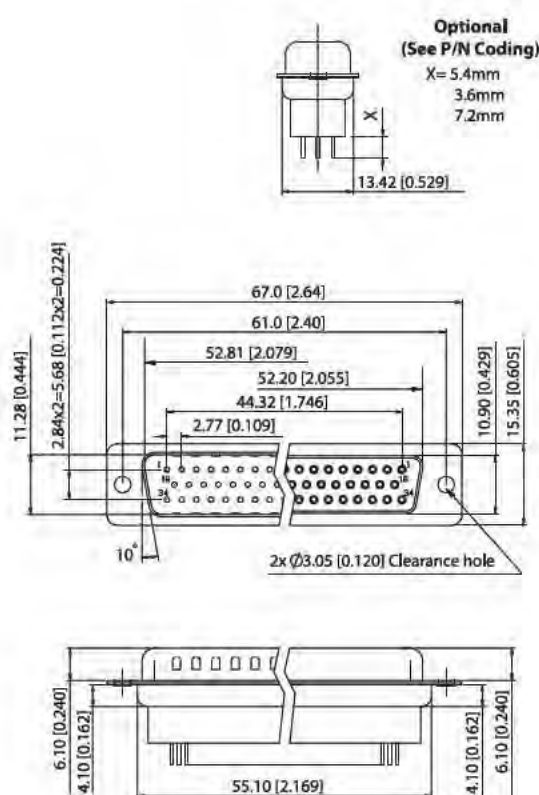
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

## 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  |
| <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**

**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.  $\varnothing 3.05\text{mm}$  [ .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**

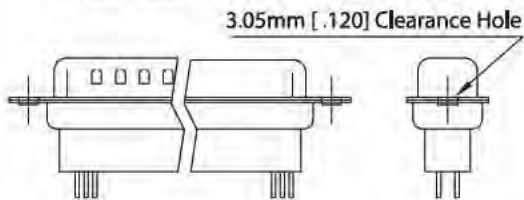
- N : Without Ferrite

**PIN TYPE**

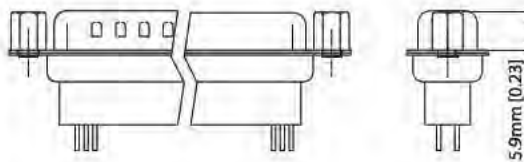
- S : STAMPED PIN : 5.4mm [0.21]  
M : MACHINED PIN : 5.4mm [0.21]  
Q : STAMPED PIN : 3.6mm [0.14]  
R : STAMPED PIN : 7.2mm [0.28]

**RIVET OPTIONS**

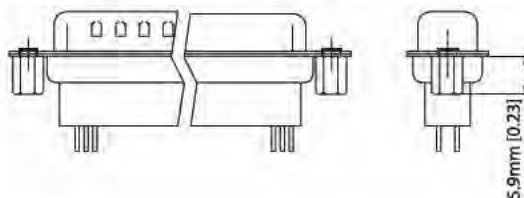
**0. 3.05mm [ .120 ] Clearance Hole**



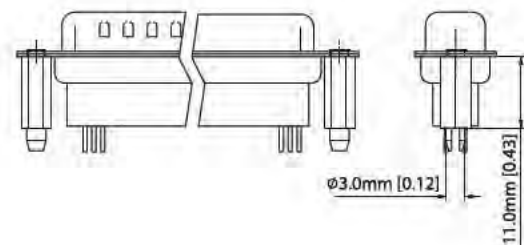
**1. Front Rivet, 5.9mm [0.23]**



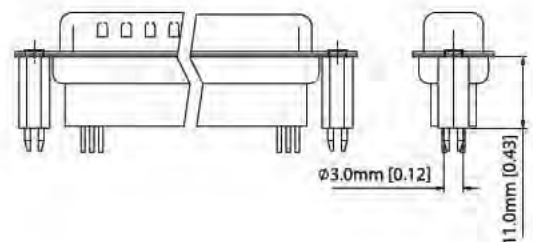
**2. Rear Rivet, 5.9mm [0.23]**



**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

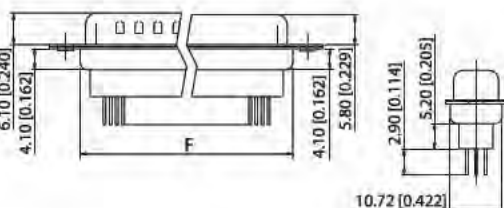
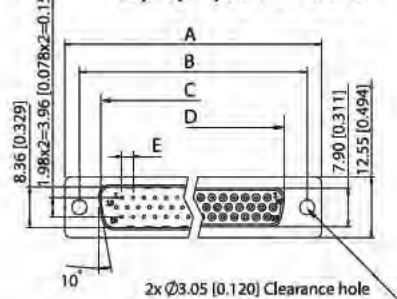
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Screwlock: Steel, Nickel Plated

#### Electrical

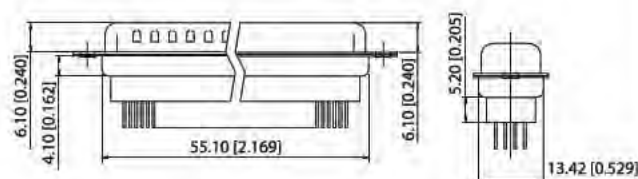
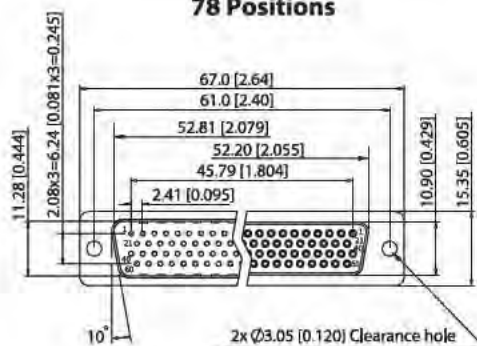
- Contact Resistance: 20m OHMs Max at 1 Amp DC.
- Insulation Resistance: 1000 MegOHMs at 500 VDC.
- Dielectric withstanding Voltage: 1000 Vac/Rms 60Hz for 1 Minute
- Current Rating: 3 Amps
- Voltage Rating: 250 Vac/Rms 60Hz

### DIMENSIONS

15,26,44,62 Positions



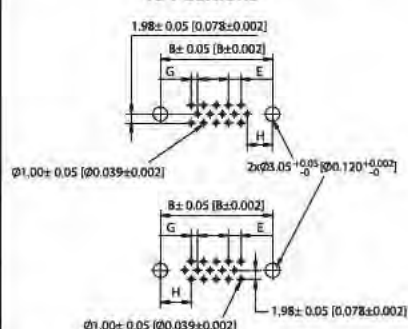
78 Positions



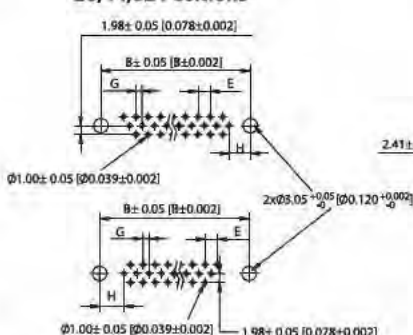
| Positions | A     |       | B     |       | C     |       | D     |       | E     |       | F     |       |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           | mm    | inch  | mm    | inch  | mm    | inch  | mm    | inch  | mm    | 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

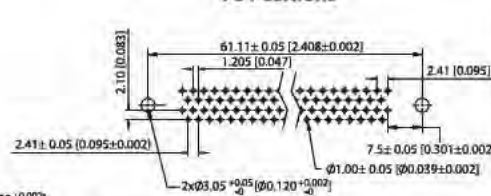
15 Positions



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**

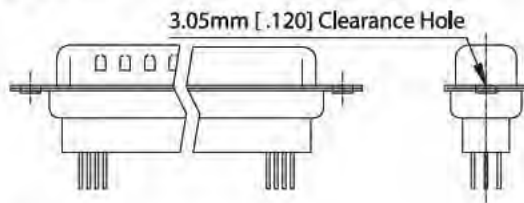
N : Without Ferrite

**PIN TYPE**

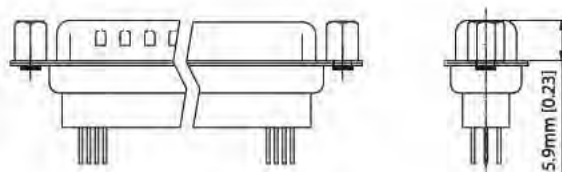
S : STAMPED PIN : 5.4mm [0.21]  
M : MACHINED PIN : 5.4mm [0.21]  
Q : STAMPED PIN : 3.6mm [0.14]  
R : STAMPED PIN : 7.2mm [0.28]  
T : MACHINED PIN : 7.5mm [0.30]

**RIVET OPTIONS**

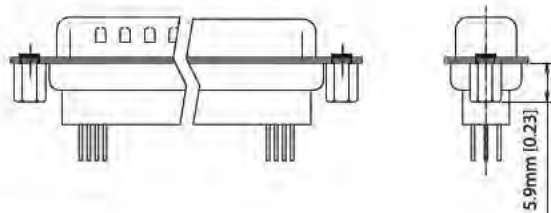
**0. 3.05mm [ .120 ] Clearance Hole**



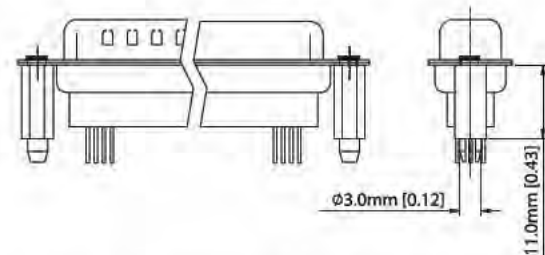
**1. Front Rivet, 5.9mm [0.23]**



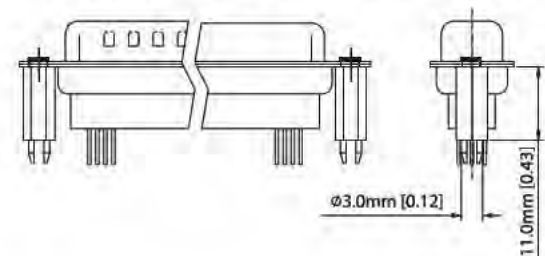
**2. Rear Rivet, 5.9mm [0.23]**



**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]**







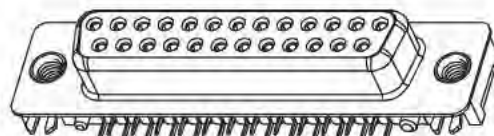
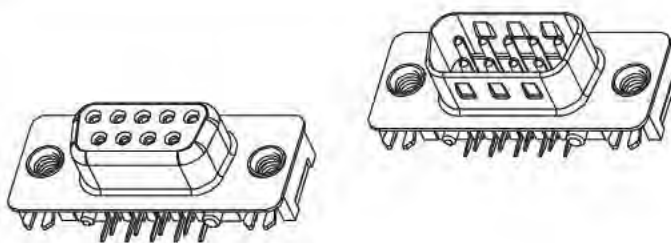
## SPECIFICATIONS

### Material

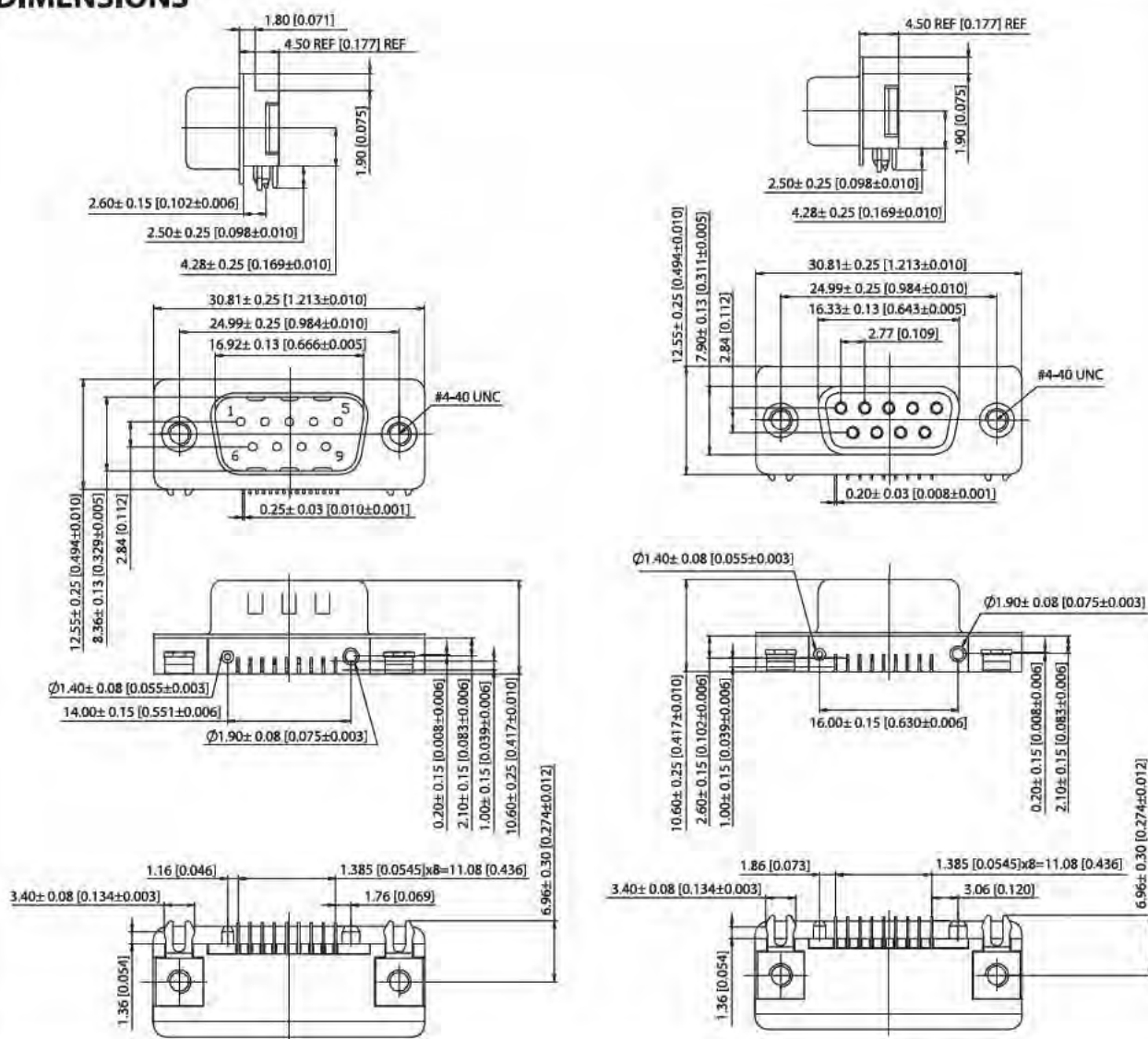
- Insulator: Glass-Filled Thermoplastic PBT, UL 94V-0
- Contact: Brass
- Clinch Nut: Brass, Nickel Plated
- Boardlock: Brass, Tin Plated
- Screwlock: Steel, Nickel Plated

### 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. 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

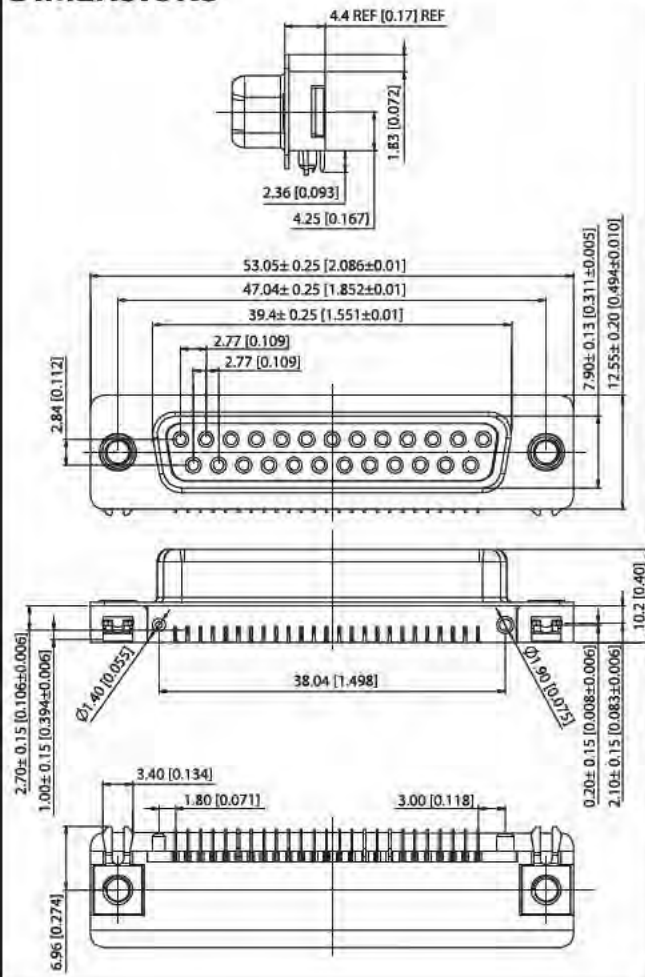
**FERRITE**

N : Without Ferrite

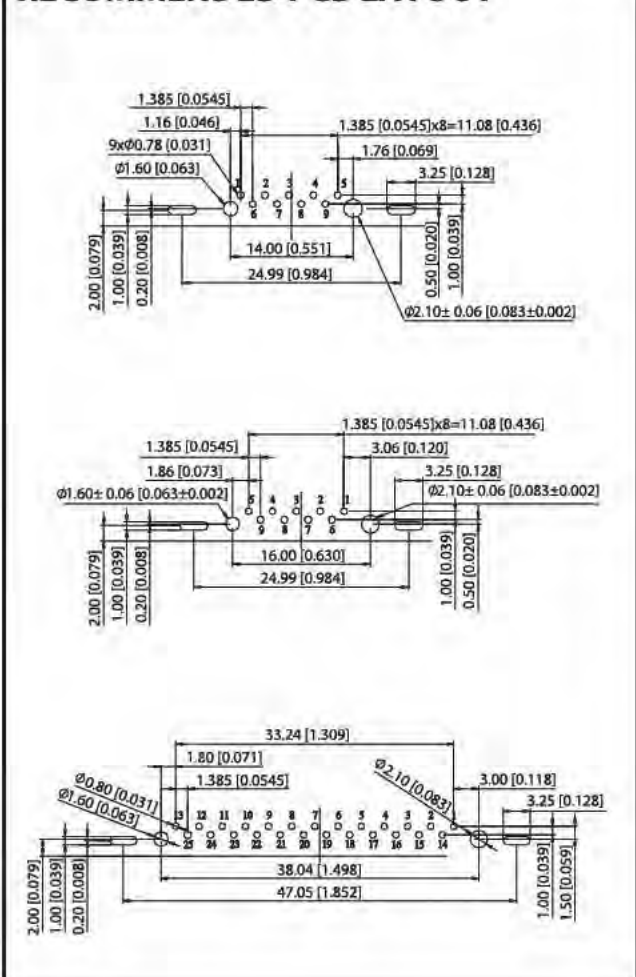
**PIN TYPE**

S : STAMPED PIN

**DIMENSIONS**



**RECOMMENDED PCB LAYOUT**





## 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**

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

**RECOMMENDED PCB LAYOUT**

