

# I / O Connectors

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5-1~5-23 • I/O Connectors



**AMTEK Technology Co., Ltd**

## D-SUB Mating Face Options

| No. | Item                                                        | No. | Item                                                |
|-----|-------------------------------------------------------------|-----|-----------------------------------------------------|
| A   | Thread Insert #4-40 UNC                                     | R   | Jack Screw Insert M3                                |
| B   | Thread Insert #4-40 UNC +<br>Jack Screw #4-40 UNC Attached  | S   | Rear Rivet H=5.0                                    |
| C   | Thread Insert #4-40 UNC +<br>Jack Screw #4-40 UNC Removable | T   | Jack Screw Insert M2                                |
| D   | Front Rivet #4-40 H=4.0                                     | U   | Rivet M3                                            |
| E   | Front Rivet M3 H=4.0                                        | V   | Rivet M3 +<br>Jack Screw #4-40 UNC Attached         |
| F   | Rear Rivet #4-40 H=4.0                                      | W   | Rivet M3 + Screw Insert                             |
| G   | Rear Rivet M3 H=4.0                                         | X   | Rivet M2.6 + Screw Insert                           |
| H   | Front Rivet #4-40 H=5.8                                     | Y   | Rivet Nuts                                          |
| I   | Rear Rivet #4-40 H=5.8                                      | Z   | Rear Rivet H=4.0 +<br>Jack Screw #4-40 UNC Attached |
| J   | Front Rivet M3 H=5.8                                        | 1   | Rear Rivet #4-40 H=2.5                              |
| K   | Rear Rivet M3 H=5.8                                         | 2   | Rear Rivet H=2.0                                    |
| L   | Rear Rivet #4-40 H=4.0 +<br>Jack Screw #4-40 Removable      | 3   | Rear Rivet H=5.0 + Screw Insert                     |
| M   | Thread Insert #4-40 +<br>Jack Screw #4-40 Removable         | 4   | Front Rivet H=4.8                                   |
| N   | Clear Hole Ø 3.05mm                                         | 5   | Front Rivet H=2.0                                   |
| O   | Thread Insert M3                                            | 6   | Jack Screw Insert M3.5                              |
| P   | Rear Rivet H=9.0                                            | 7   | Round #4-40 Rivet #2-56                             |
| Q   | Front Rivet H=5.0                                           | 8   | Customization                                       |

**D-SUB Type**

**ROHS**

## D-SUB Mating Face Options

| Page | Part No.             | Options |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------|----------------------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|      |                      | A       | B | C | D | E | F | G | H | I | J | K | L | M | N | O | 1 |  |
| 5-3  | 57SHMRXF-15AXXXA-XX  | V       | V | V |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|      | 57SHDRXF-15AXXXA-XX  | V       | V | V |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 5-4  | 57HDDRXX-XXAXXXBA-XX | V       | V | V |   |   |   |   |   |   |   |   |   | V |   |   |   |  |
|      | 57HXDRXX-XXXXXXBA-XX | V       | V | V |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 5-5  | 57HDSXX-XXNXXXXA-XX  |         |   |   |   |   |   |   | V | V | V | V |   |   |   | V |   |  |
|      | 57HDDSXX-XXXXXXXA-XX |         |   |   | V | V | V | V |   |   |   |   |   |   |   | V |   |  |
| 5-6  | 57HDCSXX-XXNX00BA-XX |         |   |   | V | V | V | V |   |   |   |   |   |   |   | V |   |  |
|      | 57HEDSXX-XXXXXXBA-XX |         |   |   |   |   | V |   |   | V |   |   | V |   | V |   |   |  |
| 5-7  | 57WHDRXX-XXNXXXBA-XX | V       | V | V |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|      | 57WHDSXX-XXNXXXBA-XX | V       | V | V |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 5-8  | 57WHSSXX-XXNXXXBA-XX | V       | V | V |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|      | 57MDDRXX-XXNXXXXA-XX |         |   |   |   |   |   |   | V | V | V | V |   |   |   | V |   |  |
| 5-9  | 57MDSSXX-XXNXG0XA-XX |         |   |   | V | V | V | V |   |   |   |   |   |   |   | V |   |  |
|      | 57MDDSXX-XXNXXXXA-XX |         |   |   | V | V | V | V |   |   |   |   |   |   |   | V |   |  |
| 5-10 | 57SDMRXX-XXAXXXBA-XX | V       | V | V |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|      | 57SDDRXX-XXAXXXBA-XX | V       | V | V |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 5-11 | 57DBDRXX-XXAXXXBA-XX | V       | V | V |   |   |   |   |   |   |   |   |   | V |   |   |   |  |
|      | 57DXDRXX-XXXXXXBA-XX | V       | V | V |   |   |   |   |   |   |   |   |   |   |   | V |   |  |
| 5-12 | 57DBSSXX-XXNXXXBA-XX |         |   |   |   |   |   |   | V | V | V | V |   |   |   | V |   |  |
|      | 57DBDSXX-XXXXXXXA-XX | V       | V | V | V |   | V | V | V |   | V |   | V |   | V |   | V |  |
| 5-13 | 57DBPSXX-XXNXXXBA-01 | V       |   |   |   |   | V | V | V |   | V |   |   |   |   | V |   |  |
|      | 57DBDSXX-XXXXXXBA-XX | V       |   | V |   |   |   |   |   |   |   |   |   |   |   | V |   |  |
| 5-14 | 57DBCSXX-XXNX00BA-01 |         |   |   | V | V | V | V |   |   |   |   |   |   |   | V |   |  |
|      | 57DEDSXX-XXXXXXBA-XX | V       |   | V | V |   |   |   |   |   |   |   | V |   | V |   |   |  |
| 5-15 | 57D3ISXX-XXXXXXBA-XX | V       |   |   | V | V | V | V |   |   |   |   |   |   |   | V | V |  |
|      | 57WDDRXX-XXNXXXXA-XX | V       | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 5-16 | 57WDSSXX-XXXXXXBA-XX | V       | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|      | 57WDDSXX-XXXXXXBA-XX | V       | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

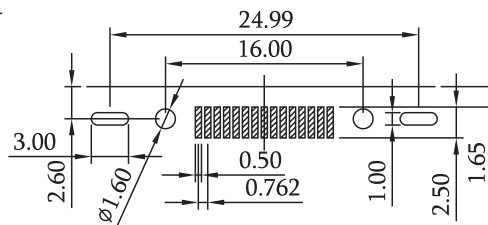
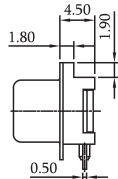
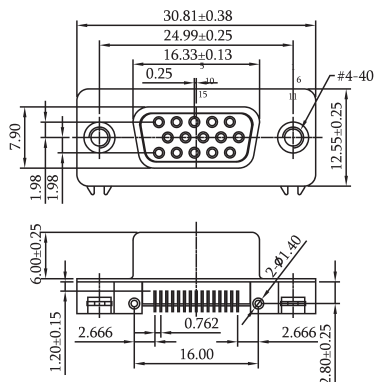
## D-SUB H.D. Slim SMT R/A Type

### Specifications

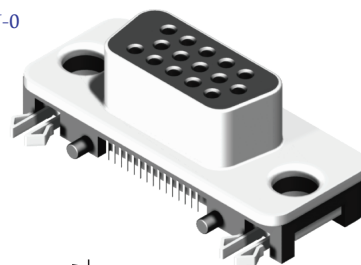
Current Rate: 5 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 30mΩ Max.  
Dielectric Voltage: 1000V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

Insulator: High Temperature Thermoplastic, UL 94V-0  
Contact Pin: Copper Alloy



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



## ORDER INFORMATION

|            |   |   |   |   |   |                                                 |   |   |                  |   |                                                                      |   |                                                               |                                                                                                                |                                                            |   |   |        |   |
|------------|---|---|---|---|---|-------------------------------------------------|---|---|------------------|---|----------------------------------------------------------------------|---|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---|---|--------|---|
| 5          | 7 | S | H | M | R | X                                               | F | - | 1                | 5 | A                                                                    | X | X                                                             | X                                                                                                              | X                                                          | A | - | X      | X |
| MR:SMT R/A |   |   |   |   |   | 3:Nickel Shell, Hi-Temp<br>4:Tin Shell, Hi-Temp |   |   | F:Female         |   | No. of Contacts                                                      |   | A:Rivet<br>B:Rivet + Screw Attached<br>C:Rivet + Screw Insert |                                                                                                                | B:Black Insulator<br>U:Blue Insulator<br>E:Green Insulator |   |   | A:Tray |   |
|            |   |   |   |   |   |                                                 |   |   | A:Fork Grounding |   | G0:Gold Flash<br>GA:Au 5u"<br>GB:Au 10u"<br>GC:Au 20u"<br>GD:Au 30u" |   |                                                               | S0:Selective Au<br>SA:Selective Au 5u"<br>SB:Selective Au 10u"<br>SC:Selective Au 20u"<br>SD:Selective Au 30u" |                                                            |   |   |        |   |

Type See Page 5-2

Old P/N:MNDBM-F15

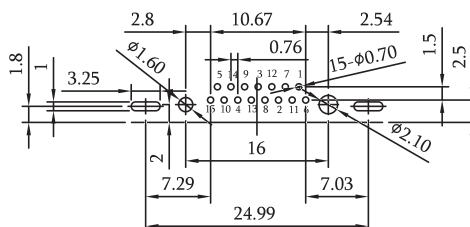
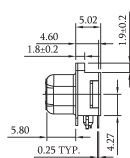
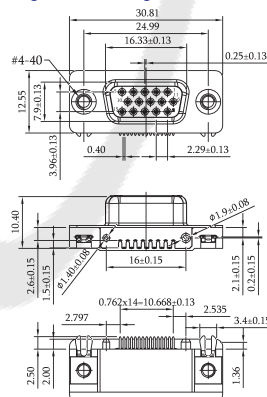
## D-SUB H.D. Slim Dip R/A Type

### Specifications

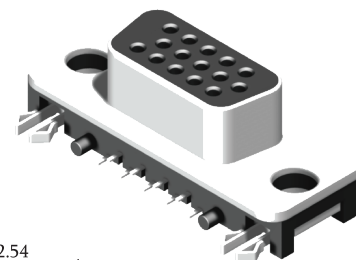
Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 25mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +85°C

### Material

Insulator: PBT or Nylon 9T, UL 94V-0  
Terminal: Copper Alloy.



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



## ORDER INFORMATION

|            |   |   |   |   |   |                                                                                                        |          |                  |   |   |                                                                                         |   |   |                                       |   |   |        |   |   |
|------------|---|---|---|---|---|--------------------------------------------------------------------------------------------------------|----------|------------------|---|---|-----------------------------------------------------------------------------------------|---|---|---------------------------------------|---|---|--------|---|---|
| 5          | 7 | S | H | D | R | X                                                                                                      | F        | -                | 1 | 5 | A                                                                                       | X | X | X                                     | X | A | -      | X | X |
| DR:DIP R/A |   |   |   |   |   | 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS)<br>3: Nickel Shell, Hi-Temp<br>4: Tin Shell, Hi-Temp | F:Female | No. of Contacts  |   |   | A:Rivet<br>B:Rivet + Screw Attached<br>C:Rivet + Screw Insert                           |   |   | B:Black Insulator<br>U:Blue Insulator |   |   | A:Tray |   |   |
|            |   |   |   |   |   |                                                                                                        |          | A:Fork Grounding |   |   | S0:Selective Au<br>SB:Selective Au 10u"<br>SF:Selective Au 15u"<br>SD:Selective Au 30u" |   |   |                                       |   |   |        |   |   |

Type See Page 5-2

Old P/N:MNDBR-F15

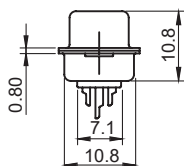
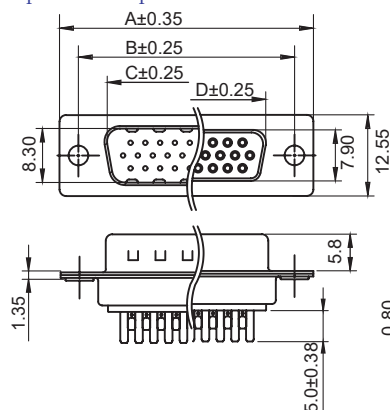
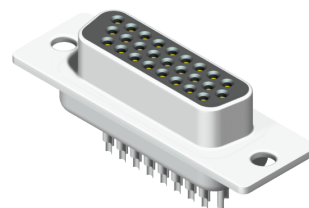


## Specifications

Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 30mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +105°C

## Material

Insulator: PBT, UL 94V-0  
Contact Pin: Copper Alloy



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 15              | 30.99  | 24.99  | 16.92  | 16.34  |
| 26              | 39.20  | 33.32  | 25.25  | 24.76  |
| 44              | 53.05  | 47.04  | 38.96  | 38.33  |
| 62              | 70.50  | 63.50  | 55.46  | 54.89  |

## ORDER INFORMATION

The diagram illustrates a sequence-to-sequence model where a sequence of 15 input tokens is mapped to a sequence of 15 output tokens. The input tokens are: [5], [7], [H], [D], [S], [S], [X], [F], [-], [X], [X], [X], [X], [X], [X], [A], [-], [X], [X]. The output tokens are: [1: Tin shell+ L(RoHS)], [2: Nickel shell+ L(RoHS)], [M: Male], [F: Female], [No. of Contacts (15/26/44/62)], [N: None], [F: Rear Rivet #4-40, H=4.0], [I: Rear Rivet #4-40, H=5.8], [D: Front Rivet #4-40, H=4.0], [H: Front Rivet #4-40, H=5.8], [G0: Gold Flash], [GF: Au 5u"], [GD: Au 30u"], [B: Black], [W: Natural], [A: Tray].

Type See Page 5-2

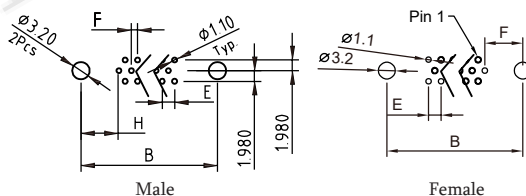
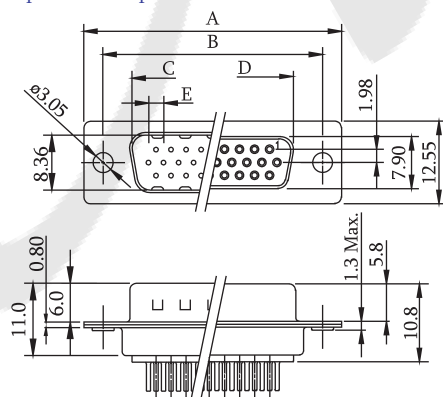
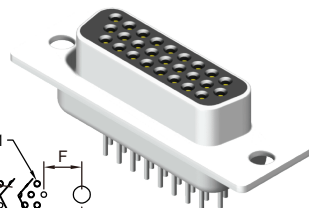
Old P/N:HDBS-M/F

## Specifications

Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 25mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT, UL 94V-0  
Terminal: Copper Alloy.



Recommended PCB Layout  
(PCB TOLERANCE  $\pm 0.05$ )

| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D | Dim. E |
|-----------------|--------|--------|--------|--------|--------|
| 15              | 30.81  | 24.99  | 16.92  | 16.33  | 2.29   |
| 26              | 39.14  | 33.32  | 25.50  | 24.66  | 2.29   |
| 44              | 53.04  | 47.04  | 38.96  | 38.38  | 2.29   |
| 62              | 69.32  | 63.50  | 55.42  | 54.84  | 2.41   |

## ORDER INFORMATION

Diagram illustrating a sequence of characters and their corresponding labels/tables:

- 5: DS:DIP Vertical
- 7: 1: Tin Shell+ L(RoHS)  
2: Nickel Shell+ L(RoHS)
- H: M: Male  
F: Female
- D: No. of Contacts (15/26/44/62)
- D: N: None  
B: With Boardlock
- S: N: Non Accessories  
D: Front Rivet #4-40, Height=4.0  
E: Front Rivet M3, Height=4.0  
F: Rear Rivet #4-40, Height=4.0  
G: Rear Rivet M3, Height=4.0
- X: G0: Gold Flash  
GA: Au 5u"  
S0: Selective Au  
SA: Selective Au 5u"  
GB: Au 10u"  
SB: Selective Au 10u"  
GC: Au 20u"  
SC: Selective Au 20u"  
GD: Au 30u"  
SD: Selective Au 30u"
- X: B: Black Insulator  
U: Blue Insulator
- : A: Tray
- X: A: Tray
- X: A: Tray
- X: A: Tray

Type See Page 5-2

Old P/N:HDBD-M/F

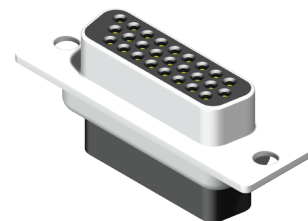
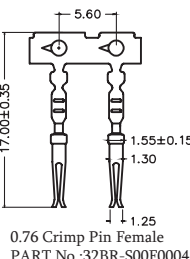
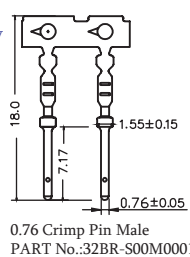
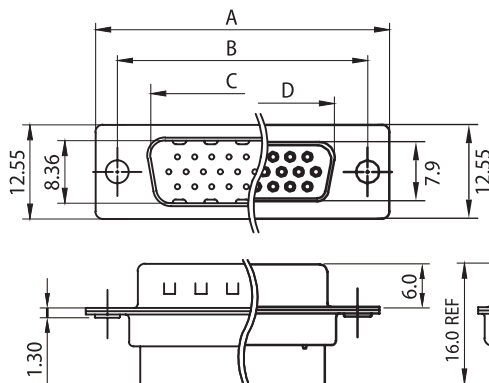
## D-SUB H.D Crimp Type

### Specifications

Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 25mΩ Max.  
Dielectric Voltage: 1000V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT, UL 94V-0  
Contact Pin: Copper Alloy



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 15              | 30.81  | 24.99  | 16.92  | 16.33  |
| 26              | 39.14  | 33.32  | 25.25  | 24.66  |
| 44              | 53.04  | 47.04  | 38.96  | 38.38  |
| 62              | 69.32  | 63.50  | 55.42  | 54.84  |

## ORDER INFORMATION

|   |   |   |   |   |   |                                                   |                      |   |                                  |   |                                                                                                 |   |                |   |                    |   |         |   |   |
|---|---|---|---|---|---|---------------------------------------------------|----------------------|---|----------------------------------|---|-------------------------------------------------------------------------------------------------|---|----------------|---|--------------------|---|---------|---|---|
| 5 | 7 | H | D | C | S | X                                                 | X                    | - | X                                | X | N                                                                                               | X | 0              | 0 | B                  | A | -       | X | X |
|   |   |   |   |   |   | 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) | M: Male<br>F: Female |   | No. of Contacts<br>(15/26/44/62) |   | N: None<br>F: Rear Rivet #4-40 H:4.0<br>I: Rear Rivet #4-40 H:5.8<br>H: Front Rivet #4-40 H:5.8 |   | 00: No Plating |   | B: Black Insulator |   | A: Tray |   |   |

Type See Page 5-2

Old P/N: HDBC-M/F

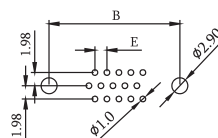
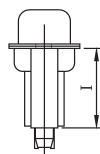
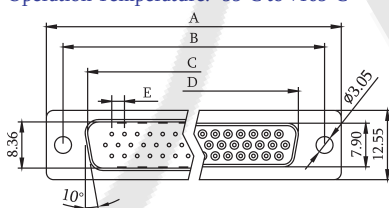
## D-SUB H.D. Elevated Dip Vertical Type

### Specifications

Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 20mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +105°C

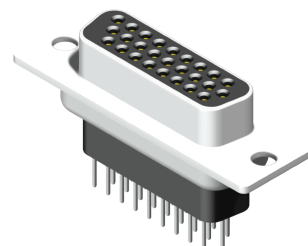
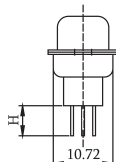
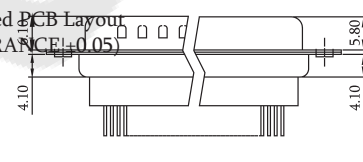
### Material

Insulator: PBT, UL 94V-0  
Terminal: Copper Alloy  
Dim. H/I (Fill in Dimension For Special Design)



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D | Dim. E | Dim. H | Dim. I |
|-----------------|--------|--------|--------|--------|--------|--------|--------|
| 15              | 30.81  | 24.99  | 16.92  | 19.20  | 2.29   | 3.60   | 9.60   |
| 26              | 39.14  | 33.32  | 25.50  | 27.70  | 2.29   | 5.40   | 11.10  |
| 44              | 53.04  | 47.04  | 38.96  | 41.10  | 2.29   | 7.20   | 12.70  |
| 62              | 69.32  | 63.50  | 55.42  | 57.30  | 2.41   |        |        |

## ORDER INFORMATION

|   |   |   |   |   |   |                                                   |                      |   |                                                                                                                              |   |                              |   |                                             |   |                                                                   |   |         |   |   |
|---|---|---|---|---|---|---------------------------------------------------|----------------------|---|------------------------------------------------------------------------------------------------------------------------------|---|------------------------------|---|---------------------------------------------|---|-------------------------------------------------------------------|---|---------|---|---|
| 5 | 7 | H | E | D | S | X                                                 | X                    | - | X                                                                                                                            | X | X                            | X | X                                           | X | B                                                                 | A | -       | X | X |
|   |   |   |   |   |   | DS: DIP Vertical                                  | M: Male<br>F: Female |   | No. of Contacts<br>(15/26/44/62)                                                                                             |   | N: None<br>B: With Boardlock |   | X: Gold Flash<br>GF: Au 15u"<br>GD: Au 30u" |   | S: Selective Au<br>SF: Selective Au 15u"<br>SD: Selective Au 30u" |   | A: Tray |   |   |
|   |   |   |   |   |   | 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) |                      |   | N: Non Accessories<br>F: Rear Rivet #4-40, Height=4.0<br>I: Rear Rivet #4-40, Height=5.8<br>L: Rear Rivet #4-40, H=4.0+Screw |   |                              |   |                                             |   |                                                                   |   |         |   |   |

Type See Page 5-2

Old P/N: HDBE-M/F

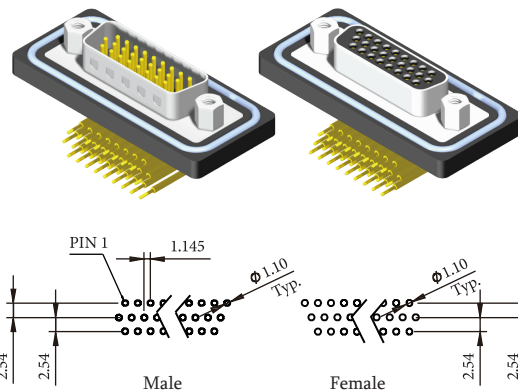
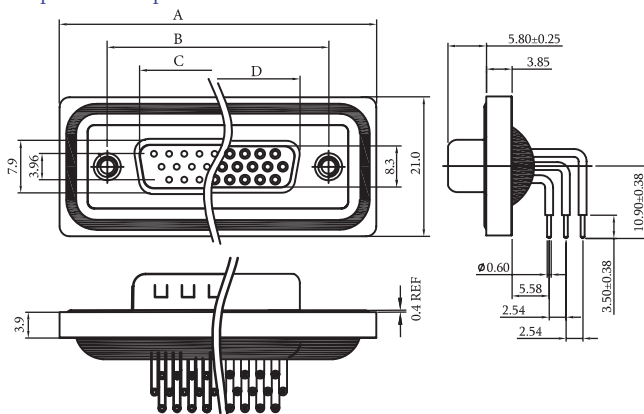
## D-SUB Waterproof H.D. Dip R/A Type

### Specifications

Current Rate: 5 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 30mΩ Max.  
Dielectric Voltage: AC 500V  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT  
Terminal: Copper Alloy.



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 15              | 39.40  | 24.99  | 16.90  | 16.33  |
| 26              | 47.70  | 33.30  | 25.35  | 24.66  |
| 44              | 64.50  | 47.04  | 39.00  | 38.38  |

## ORDER INFORMATION

5 7 W H D R X X - X X N X X B A - X X

1: Tin Shell+ L(RoHS)  
2: Nickel Shell+ L(RoHS)

M: Male  
F: Female

No. of Contacts  
(15/26/44)

N: None

A: Thread Insert #4-40  
B: Thread Insert #4-40 + Jack Screw #4-40 Attached  
C: Thread Insert #4-40 UNC + Jack Screw #4-40 UNC Removable

G0: Gold Flash

B: Black Insulator

A: Tray

Type See Page 5-2

Old P/N: WHDBR-M/F

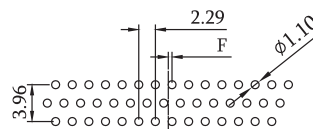
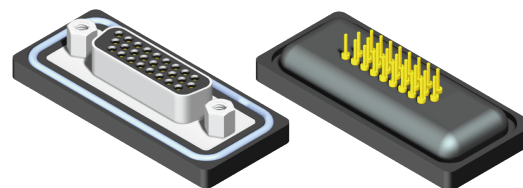
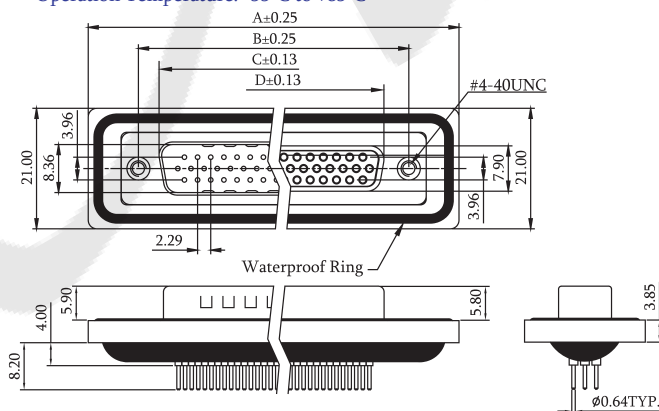
## D-SUB Waterproof H.D. Dip Vertical Type

### Specifications

Current Rate: 5 AMP  
Insulation Resistance: 5000MΩ Min.  
Contact Resistance: 10mΩ Max.  
Dielectric Voltage: AC 1000V  
Operation Temperature: -55°C to +85°C

### Material

Insulator: PBT, UL 94V-0  
Terminal: Copper Alloy.



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D | Dim. F |
|-----------------|--------|--------|--------|--------|--------|
| 15              | 39.40  | 24.99  | 16.92  | 16.33  | 0.25   |
| 26              | 47.70  | 33.30  | 25.25  | 24.66  | 0.51   |
| 44              | 64.50  | 47.04  | 38.96  | 38.38  | 0.51   |

## ORDER INFORMATION

5 7 W H D S X X - X X N X X B A - X X

DS: DIP Vertical

1: Tin Shell+ L(RoHS)  
2: Nickel Shell+ L(RoHS)

M: Male  
F: Female

No. of Contacts  
(15/26/44)

N: None

A: Rivet  
B: Rivet + Screw Attached  
C: Rivet + Screw Insert

G0: Gold Flash  
GF: Au 15u"  
GD: Au 30u"

B: Black Insulator

A: Tray

Type See Page 5-2

Old P/N: WHDBD-M/F

D-SUB

ROHS

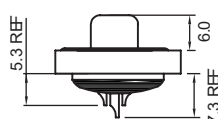
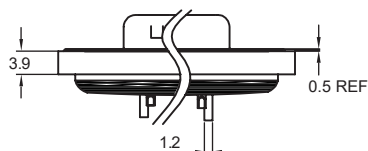
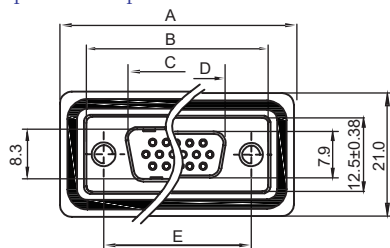
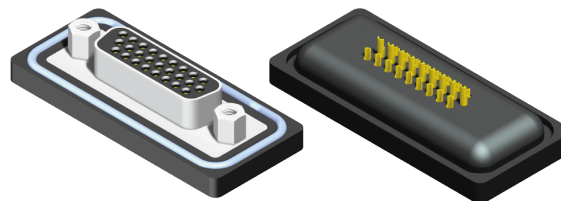
## D-SUB Waterproof H.D. Solder Type

### Specifications

Current Rate: 5 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 30mΩ Max.  
Dielectric Voltage: AC 500V  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT  
Contact: Copper Alloy



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D | Dim. E |
|-----------------|--------|--------|--------|--------|--------|
| 15              | 30.99  | 30.80  | 16.90  | 16.30  | 25.00  |
| 26              | 39.20  | 39.20  | 25.35  | 24.80  | 33.30  |
| 44              | 53.05  | 53.04  | 39.00  | 38.30  | 47.00  |
| 62              | 70.50  | 69.40  | 55.42  | 54.80  | 63.50  |

## ORDER INFORMATION

|                                                   |   |   |   |   |   |                      |   |   |                                  |                                                                                                                                                      |   |                |   |          |   |         |   |   |   |
|---------------------------------------------------|---|---|---|---|---|----------------------|---|---|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------|---|----------|---|---------|---|---|---|
| 5                                                 | 7 | W | H | S | S | X                    | X | - | X                                | X                                                                                                                                                    | N | X              | X | X        | B | A       | - | X | X |
|                                                   |   |   |   |   |   | M: Male<br>F: Female |   |   | No. of Contacts<br>(15/26/44/62) | N: None                                                                                                                                              |   | G0: Gold Flash |   | B: Black |   | A: Tray |   |   |   |
| 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) |   |   |   |   |   |                      |   |   |                                  | A: Thread Insert #4-40<br>B: Thread Insert #4-40 +<br>Jack Screw #4-40 Attached<br>C: Thread Insert #4-40<br>UNC + Jack Screw #4-40<br>UNC Removable |   |                |   |          |   |         |   |   |   |

Type See Page 5-2

Old P/N: WHDBS-M/F

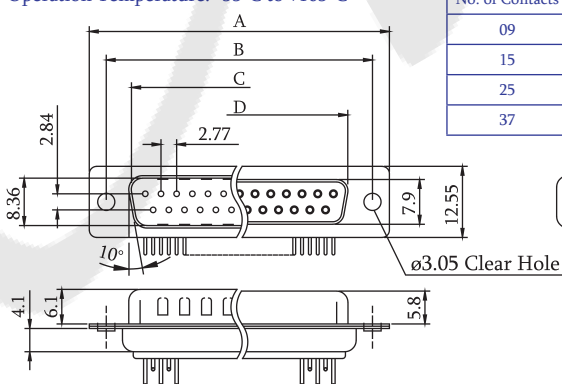
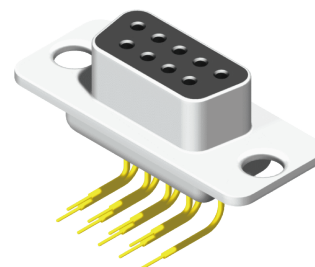
## D-SUB Machine Pin Dip R/A Type

### Specifications

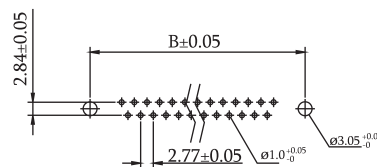
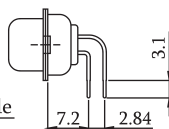
Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 20mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT, UL 94V-0  
Terminal: Copper Alloy



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.92  | 16.33  |
| 15              | 39.14  | 33.32  | 25.50  | 24.66  |
| 25              | 53.04  | 47.04  | 38.96  | 38.38  |
| 37              | 69.32  | 63.50  | 55.42  | 54.84  |



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

## ORDER INFORMATION

|                                                 |   |   |   |   |   |                                                    |   |                                  |   |                                                                                                                                                       |   |   |   |                                                                      |   |        |   |   |
|-------------------------------------------------|---|---|---|---|---|----------------------------------------------------|---|----------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|----------------------------------------------------------------------|---|--------|---|---|
| 5                                               | 7 | M | D | D | R | X                                                  | X | -                                | X | X                                                                                                                                                     | N | X | X | X                                                                    | A | -      | X | X |
| DR:DIP R/A                                      |   |   |   |   |   | A:Foot Print 7.2, Male<br>B:Foot Print 7.2, Female |   | No. of Contacts<br>(09/15/25/37) |   | N:None                                                                                                                                                |   |   |   | B:Black Insulator<br>W:White Insulator<br>U:Blue Insulator           |   | A:Tray |   |   |
| 1:Tin Shell+ L(RoHS)<br>2:Nickel Shell+ L(RoHS) |   |   |   |   |   |                                                    |   |                                  |   | N:Non Accessories<br>H:Front Rivet #4-40, Height=5.8<br>I:Rear Rivet #4-40, Height=5.8<br>J:Front Rivet M3, Height=5.8<br>K:Rear Rivet M3, Height=5.8 |   |   |   | G0:Gold Flash<br>GA:Au 5u"<br>GB:Au 15u"<br>GC:Au 20u"<br>GD:Au 30u" |   |        |   |   |

Type See Page 5-2

Old P/N: MDBR1/2

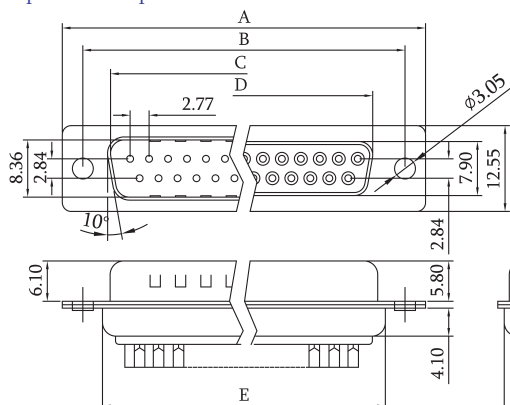
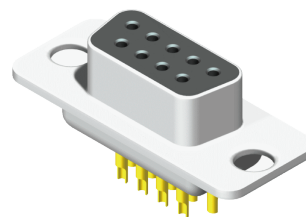
## D-SUB Machine Pin Solder Type

### Specifications

Current Rate: 5 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 20mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT, UL 94V-0  
Contact Pin: Copper Alloy



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.92  | 16.33  |
| 15              | 39.14  | 33.32  | 25.50  | 24.66  |
| 25              | 53.04  | 47.04  | 38.96  | 38.38  |
| 37              | 69.32  | 63.50  | 55.42  | 54.84  |

## ORDER INFORMATION

5 7 M D S S X X - X X N X G 0 X A - X X

SS: Solder  
 M: Male  
 F: Female  
 No. of Contacts (09/15/25/37)  
 N: None  
 G0: Gold Flash  
 A: Tray  
 1: Tin Shell+ L(RoHS)  
 2: Nickel Shell+ L(RoHS)  
 N: Non Accessories  
 D: Front Rivet #4-40, Height=4.0  
 E: Front Rivet M3, Height=4.0  
 F: Rear Rivet #4-40, Height=4.0  
 G: Rear Rivet M3, Height=4.0

Type See Page 5-2

Old P/N: MDBS-M/F

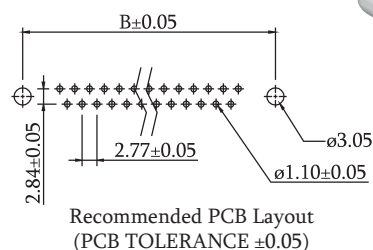
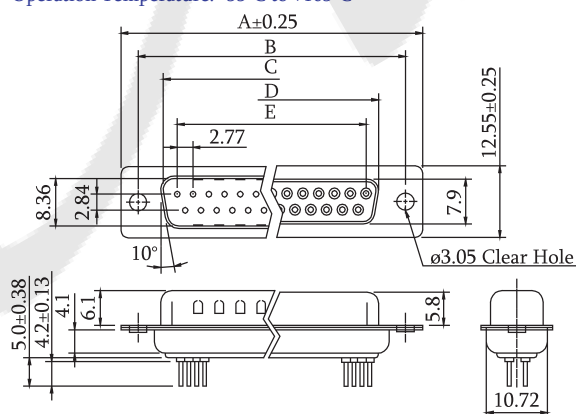
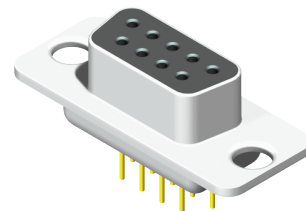
## D-SUB Machine Pin Dip Vertical Type

### Specifications

Current Rate: 5 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 20mΩ Max.  
Dielectric Voltage: 1000V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT, UL 94V-0  
Terminal: Copper Alloy.



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.92  | 16.33  |
| 15              | 39.14  | 33.32  | 25.50  | 24.66  |
| 25              | 53.04  | 47.04  | 38.96  | 38.38  |
| 37              | 69.32  | 63.50  | 55.42  | 54.84  |

## ORDER INFORMATION

5 7 M D D S X X - X X N X X X X A - X X

DS: DIP Vertical  
 M: Male  
 F: Female  
 No. of Contacts (9/15/25/37)  
 N: None  
 B: Black Insulator  
 W: White Insulator  
 U: Blue Insulator  
 1: Tin Shell+ L(RoHS)  
 2: Nickel Shell+ L(RoHS)  
 N: Non Accessories  
 D: Front Rivet #4-40, Height=4.0  
 E: Front Rivet M3, Height=4.0  
 F: Rear Rivet #4-40, Height=4.0  
 G: Rear Rivet M3, Height=4.0  
 G0: Gold Flash  
 GA: Au 5u"  
 GB: Au 10u"  
 GC: Au 20u"  
 GD: Au 30u"  
 T0: Tin Plated  
 S0: Selective Au 5u"  
 SA: Selective Au 5u"  
 SB: Selective Au 10u"  
 SC: Selective Au 20u"  
 SD: Selective Au 30u"  
 TE: Tin 200u"  
 A: Tray

Type See Page 5-2

Old P/N: MDBD-M/F

D-SUB

ROHS

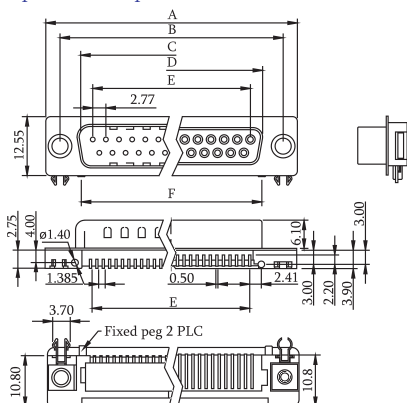
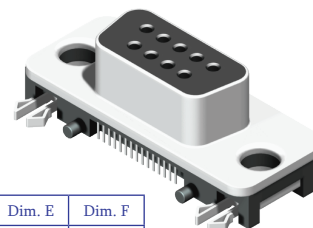
## D-SUB Slim SMT R/A Type

### Specifications

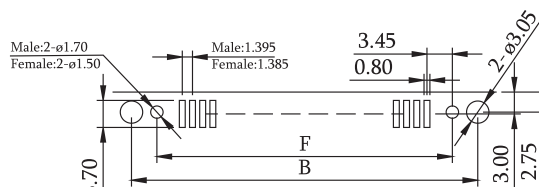
Current Rate: 1 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 25mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +85°C

### Material

Insulator: High Temperature Thermoplastic, UL 94V-0  
Contact Pin: Copper Alloy



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D | Dim. E | Dim. F |
|-----------------|--------|--------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.92  | 16.33  | 11.08  | 15.90  |
| 25              | 53.04  | 47.04  | 38.96  | 38.38  | 33.24  | 38.06  |



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

## ORDER INFORMATION

|             |   |   |   |   |   |                      |   |                            |   |                                                                                       |   |   |                                                                    |   |   |                    |   |         |   |   |
|-------------|---|---|---|---|---|----------------------|---|----------------------------|---|---------------------------------------------------------------------------------------|---|---|--------------------------------------------------------------------|---|---|--------------------|---|---------|---|---|
| 5           | 7 | S | D | M | R | X                    | X | -                          | X | X                                                                                     | A | X | X                                                                  | X | X | B                  | A | -       | X | X |
| MR: SMT R/A |   |   |   |   |   | M: Male<br>F: Female |   | No. of Contacts<br>(09/25) |   | A: Fork Grounding<br>A: Rivet<br>B: Rivet + Screw Attached<br>C: Rivet + Screw Insert |   |   | S0: Selective Au<br>SF: Selective Au 15u"<br>SD: Selective Au 30u" |   |   | B: Black Insulator |   | A: Tray |   |   |

Type See Page 5-2

Old P/N: MNDBM-M/F

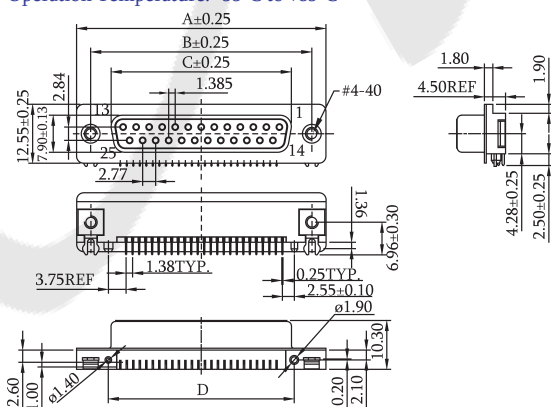
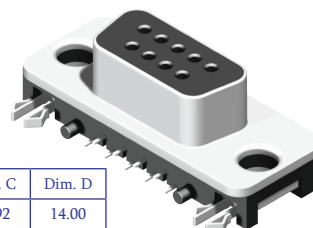
## D-SUB Slim Dip R/A Type

### Specifications

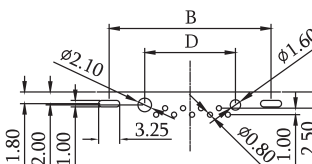
Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 25mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +85°C

### Material

Insulator: PBT, UL 94V-0  
Terminal: Copper Alloy



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09(Male)        | 30.81  | 24.99  | 16.92  | 14.00  |
| 09(Female)      | 30.81  | 24.99  | 16.33  | 16.00  |
| 25              | 53.04  | 47.04  | 38.38  | 39.54  |



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

## ORDER INFORMATION

|             |   |   |   |   |   |                      |   |                            |   |                                                                                       |   |   |                                                                   |   |   |                    |   |         |   |   |
|-------------|---|---|---|---|---|----------------------|---|----------------------------|---|---------------------------------------------------------------------------------------|---|---|-------------------------------------------------------------------|---|---|--------------------|---|---------|---|---|
| 5           | 7 | S | D | D | R | X                    | X | -                          | X | X                                                                                     | A | X | X                                                                 | X | X | B                  | A | -       | X | X |
| DR: DIP R/A |   |   |   |   |   | M: Male<br>F: Female |   | No. of Contacts<br>(09/25) |   | A: Fork Grounding<br>A: Rivet<br>B: Rivet + Screw Attached<br>C: Rivet + Screw Insert |   |   | S0: Selective Au<br>SA: Selective Au 5u"<br>SB: Selective Au 10u" |   |   | B: Black Insulator |   | A: Tray |   |   |

Type See Page 5-2

Old P/N: MNDBR-M/F

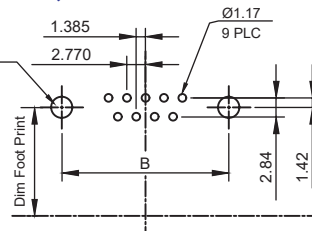
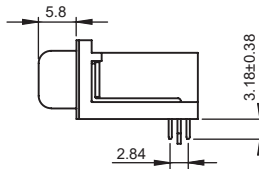
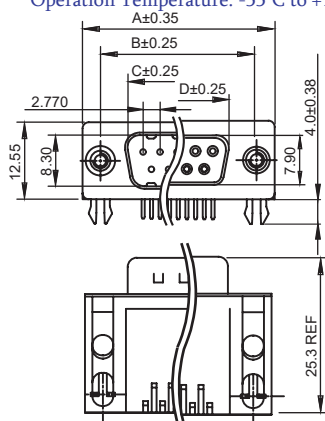
## D-SUB Dip R/A Type 7.2 / 9.4 / 13.84mm

### Specifications

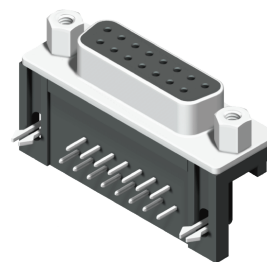
Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 30mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT, UL 94V-0  
Contact Pin: Copper Alloy



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.92  | 16.33  |
| 15              | 39.14  | 33.32  | 25.50  | 24.66  |
| 25              | 53.04  | 47.04  | 38.96  | 38.38  |
| 37              | 69.32  | 63.50  | 55.42  | 54.84  |

### ORDER INFORMATION

|   |   |   |   |   |   |                                                                                 |   |   |                                                                                       |                                                                                                                            |   |   |   |                                                                                 |                    |   |         |   |   |
|---|---|---|---|---|---|---------------------------------------------------------------------------------|---|---|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---|---|---|---------------------------------------------------------------------------------|--------------------|---|---------|---|---|
| 5 | 7 | D | B | D | R | X                                                                               | X | - | X                                                                                     | X                                                                                                                          | A | X | X | X                                                                               | B                  | A | -       | X | X |
|   |   |   |   |   |   | 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS)                               |   |   | No. of Contacts<br>(09/15/25/37)                                                      | A: Fork Grounding                                                                                                          |   |   |   | S0: Gold Flash<br>SA: 5u"<br>SB: 10u"<br>SF: 15u"<br>SD: 30u"<br>G0: Gold Flash | B: Black Insulator |   | A: Tray |   |   |
|   |   |   |   |   |   | A: Foot Print 7.2, Male<br>C: Foot Print 9.4, Male<br>E: Foot Print 13.84, Male |   |   | B: Foot Print 7.2, Female<br>D: Foot Print 9.4, Female<br>F: Foot Print 13.84, Female | A: Thread Insert #4-40<br>B: Thread Insert #4-40+Jack Screw Attached<br>C: Thread Insert #4-40+Jack Screw #4-40 Removable+ |   |   |   |                                                                                 |                    |   |         |   |   |

Type See Page 5-2

Old P/N: DBRX-M/F

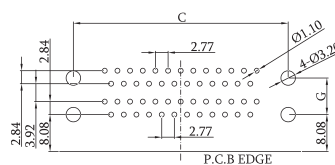
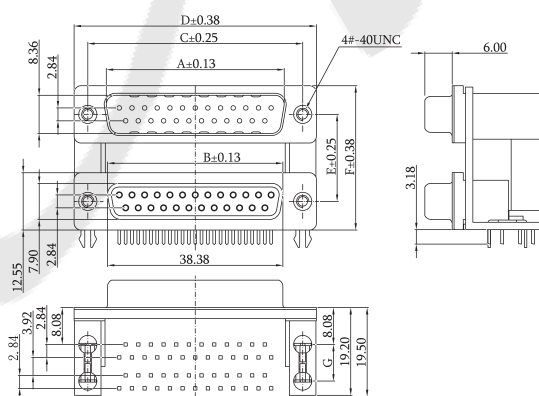
## D-SUB Dual Port Dip R/A Type

### Specifications

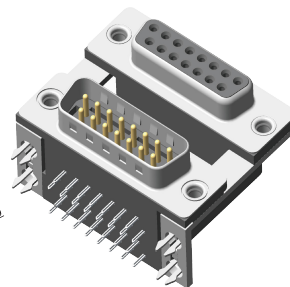
Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 25mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT, UL 94V-0  
Terminal: Copper Alloy  
Board Mounting(Dim G):  
Dual Boardlock(8.0mm)/Quad Boardlock(8.0mm)  
Dual Boardlock(7.0mm)/Quad Boardlock(7.0mm)



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. E | Dim. F | Dim. G |
|-----------------|--------|--------|--------|--------|--------|--------|
| 09/09           | 16.92  | 16.33  | 24.99  | 15.88  | 28.40  | 7.00   |
| 15/15           | 25.25  | 24.66  | 33.32  | 19.05  | 31.60  | 8.00   |
| 25/25           | 38.96  | 38.38  | 47.04  |        |        |        |
| 37/37           | 55.42  | 54.84  | 63.54  | 22.86  | 35.40  |        |

### ORDER INFORMATION

|                                                                                                                                                                                                                   |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------|--------|------------|--------|----------|------|--------|--------|--------|------|---------------------------------------------------|---|-----------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------|---|-------|--------|---|---|---|----|---|----|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|--------|--|--------------------------|--|--------------------------|--|--------------------------|--|--------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|---------|--|--------------------------|--|------------------------|--|--|--|-------------------|--|
| 5                                                                                                                                                                                                                 | 7      | D                                                             | X      | D          | R      | X        | X    | -      | X      | X      | X    | X                                                 | X | X                                                               | B | A                                                                                                                                                                                                                      | - | X               | X |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
|                                                                                                                                                                                                                   |        |                                                               |        | DR:DIP R/A |        |          |      |        |        |        |      |                                                   |   | S0:Selective Au<br>SF:Selective Au 15u"<br>SD:Selective Au 30u" |   |                                                                                                                                                                                                                        |   | A:Tray          |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| <table><tr><td>Upper</td><td>Bottom</td></tr><tr><td>1 Female</td><td>Female</td></tr><tr><td>2 Female</td><td>Male</td></tr><tr><td>3 Male</td><td>Female</td></tr><tr><td>4 Male</td><td>Male</td></tr></table> |        | Upper                                                         | Bottom | 1 Female   | Female | 2 Female | Male | 3 Male | Female | 4 Male | Male | 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) |   |                                                                 |   | <table><tr><td>No. of Contacts</td><td></td></tr><tr><td>Upper</td><td>Bottom</td></tr><tr><td>A</td><td>9</td></tr><tr><td>B</td><td>15</td></tr><tr><td>C</td><td>25</td></tr><tr><td>D</td><td>37</td></tr></table> |   | No. of Contacts |   | Upper | Bottom | A | 9 | B | 15 | C | 25 | D | 37 | <table><tr><td>Board Mounting(Dim.G)</td><td></td></tr><tr><td>N:None</td><td></td></tr><tr><td>A: Dual Boardlock(8.0mm)</td><td></td></tr><tr><td>B: Quad Boardlock(8.0mm)</td><td></td></tr><tr><td>C: Dual Boardlock(7.0mm)</td><td></td></tr><tr><td>D: Quad Boardlock(7.0mm)</td><td></td></tr></table> |  | Board Mounting(Dim.G) |  | N:None |  | A: Dual Boardlock(8.0mm) |  | B: Quad Boardlock(8.0mm) |  | C: Dual Boardlock(7.0mm) |  | D: Quad Boardlock(7.0mm) |  |  |  | <table><tr><td>N:Non Accessories</td><td></td></tr><tr><td>A:Rivet</td><td></td></tr><tr><td>B:Rivet + Screw Attached</td><td></td></tr><tr><td>C:Rivet + Screw Insert</td><td></td></tr></table> |  | N:Non Accessories |  | A:Rivet |  | B:Rivet + Screw Attached |  | C:Rivet + Screw Insert |  |  |  | B:Black Insulator |  |
| Upper                                                                                                                                                                                                             | Bottom |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| 1 Female                                                                                                                                                                                                          | Female |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| 2 Female                                                                                                                                                                                                          | Male   |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| 3 Male                                                                                                                                                                                                            | Female |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| 4 Male                                                                                                                                                                                                            | Male   |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| No. of Contacts                                                                                                                                                                                                   |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| Upper                                                                                                                                                                                                             | Bottom |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| A                                                                                                                                                                                                                 | 9      |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| B                                                                                                                                                                                                                 | 15     |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| C                                                                                                                                                                                                                 | 25     |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| D                                                                                                                                                                                                                 | 37     |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| Board Mounting(Dim.G)                                                                                                                                                                                             |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| N:None                                                                                                                                                                                                            |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| A: Dual Boardlock(8.0mm)                                                                                                                                                                                          |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| B: Quad Boardlock(8.0mm)                                                                                                                                                                                          |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| C: Dual Boardlock(7.0mm)                                                                                                                                                                                          |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| D: Quad Boardlock(7.0mm)                                                                                                                                                                                          |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| N:Non Accessories                                                                                                                                                                                                 |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| A:Rivet                                                                                                                                                                                                           |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| B:Rivet + Screw Attached                                                                                                                                                                                          |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
| C:Rivet + Screw Insert                                                                                                                                                                                            |        |                                                               |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |
|                                                                                                                                                                                                                   |        | Spacing Between(Dim.E)<br>A:15.88mm<br>B:19.05mm<br>C:22.86mm |        |            |        |          |      |        |        |        |      |                                                   |   |                                                                 |   |                                                                                                                                                                                                                        |   |                 |   |       |        |   |   |   |    |   |    |   |    |                                                                                                                                                                                                                                                                                                              |  |                       |  |        |  |                          |  |                          |  |                          |  |                          |  |  |  |                                                                                                                                                                                                   |  |                   |  |         |  |                          |  |                        |  |  |  |                   |  |

Type See Page 5-2

Old P/N: DDBRX

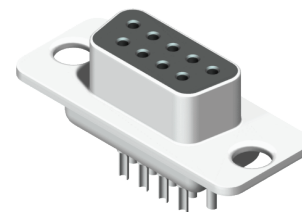
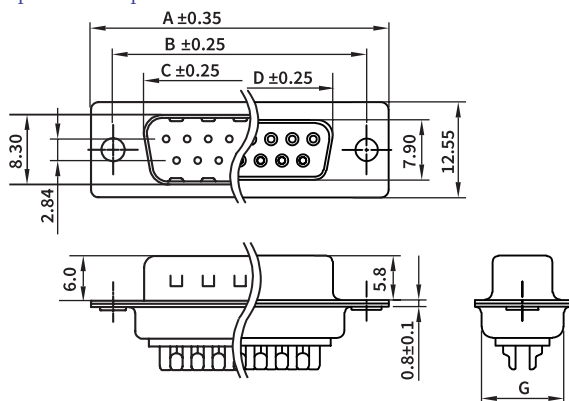
## D-SUB Solder Type

### Specifications

Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 20mΩ Max.  
Dielectric Voltage: 1000V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT, UL 94V-0  
Contact Pin: Copper Alloy



| Dim. G |       |
|--------|-------|
| Female | 10.60 |
| Male   | 10.80 |

| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.92  | 16.33  |
| 15              | 39.14  | 33.32  | 25.50  | 24.66  |
| 25              | 53.04  | 47.04  | 38.96  | 38.38  |
| 37              | 69.32  | 63.50  | 55.42  | 54.84  |

## ORDER INFORMATION

|                                                   |   |   |   |   |   |                                                                                                                                                           |                                  |   |             |   |   |                                                                          |                                        |                                                             |        |   |   |   |  |  |  |
|---------------------------------------------------|---|---|---|---|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---|-------------|---|---|--------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------|--------|---|---|---|--|--|--|
| 5                                                 | 7 | D | B | S | S | X                                                                                                                                                         | X                                | - | X           | X | X | X                                                                        | X                                      | X                                                           | X      | X | X | X |  |  |  |
|                                                   |   |   |   |   |   | M:Male<br>F:Female                                                                                                                                        | No. of Contacts<br>(09/15/25/37) |   | N:None TYPE |   |   |                                                                          | W:White insulator<br>B:Black Insulator |                                                             | A:Tray |   |   |   |  |  |  |
| 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) |   |   |   |   |   | N:Non Accessories<br>H:Front Rivet #4-40, Height=5.8<br>I:Rear Rivet #4-40, Height=5.8<br>F:Rear rivet #4-40 height=4.0<br>D:Front rivet #4-40 height=4.0 |                                  |   |             |   |   | G0:Gold Flash<br>GA: Au 5u"<br>GB: Au 10u"<br>GC: Au 20u"<br>GD: Au 30u" |                                        | S0:Selective<br>SA: 5u"<br>SB: 10u"<br>SC: 20u"<br>SD: 30u" |        |   |   |   |  |  |  |

Type See Page 5-2

Old P/N: DBS-M/F

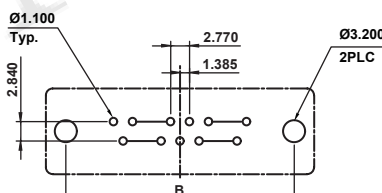
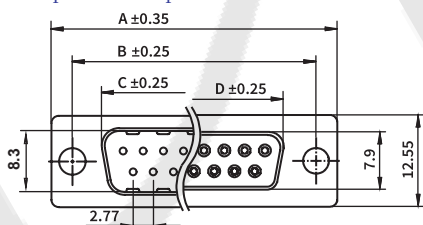
## D-SUB Dip Vertical Type

### Specifications

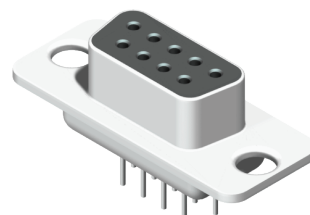
Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 20mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

Insulator: PBT, UL 94V-0  
Terminal: Copper Alloy.



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.90  | 16.33  |
| 15              | 39.14  | 33.32  | 25.10  | 24.75  |
| 25              | 53.04  | 47.04  | 38.91  | 38.33  |
| 37              | 69.32  | 63.50  | 55.25  | 54.75  |

## ORDER INFORMATION

|                                                  |   |   |   |   |   |                    |   |                                  |   |                            |   |                                                                                                                                                     |   |   |                                                             |   |   |        |   |   |   |   |
|--------------------------------------------------|---|---|---|---|---|--------------------|---|----------------------------------|---|----------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-------------------------------------------------------------|---|---|--------|---|---|---|---|
| 5                                                | 7 | D | B | D | S | X                  | X | -                                | X | X                          | X | X                                                                                                                                                   | X | X | X                                                           | X | X | X      | A | - | 0 | 1 |
|                                                  |   |   |   |   |   | M:Male<br>F:Female |   | No. of Contacts<br>(09/15/25/37) |   | N:None<br>B:With Boardlock |   | N:Non Accessories<br>A:Rivet<br>B:Rivet + Screw Attached<br>C:Rivet Screw Insert<br>F:Rear Rivet #4-40 Height=4.0<br>H:Front Rivet #4-40 Height=5.8 |   |   | B:Black Insulator<br>W:White Insulator<br>U:Blue Insulator  |   |   | A:Tray |   |   |   |   |
| 1:Tin Shell+ L(RoHS)<br>2:Nickel shell + L(RoHS) |   |   |   |   |   |                    |   |                                  |   |                            |   | G0:Gold Flash<br>GA: Au 5u"<br>GB: Au 10u"<br>GC: Au 20u"<br>GD: Au 30u"                                                                            |   |   | S0:Selective<br>SA: 5u"<br>SB: 10u"<br>SC: 20u"<br>SD: 30u" |   |   |        |   |   |   |   |

Type See Page 5-2

Old P/N: DBD-M/F

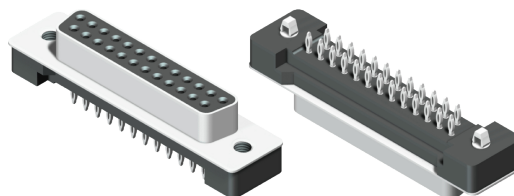
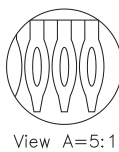
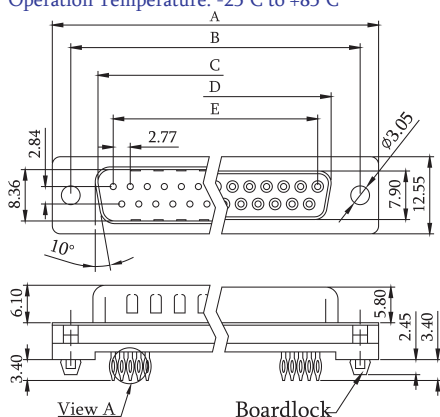
## D-SUB Press Fit Type

### Specifications

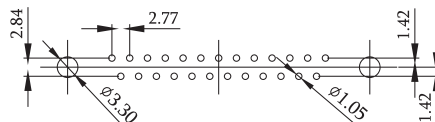
Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 20mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -25°C to +85°C

### Material

Insulator: PBT, UL 94V-0  
Contact Pin: Copper Alloy



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D | Dim. E |
|-----------------|--------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.92  | 16.33  | 11.08  |
| 15              | 39.20  | 33.30  | 25.25  | 24.70  | 19.39  |
| 25              | 53.05  | 47.04  | 38.96  | 38.40  | 33.24  |
| 37              | 69.40  | 63.50  | 55.42  | 54.80  | 49.86  |



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

## ORDER INFORMATION

|   |   |   |   |   |   |                                                   |   |   |   |                                                                                                                                                                    |   |                                  |   |                              |   |                                                                    |   |         |   |
|---|---|---|---|---|---|---------------------------------------------------|---|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------|---|------------------------------|---|--------------------------------------------------------------------|---|---------|---|
| 5 | 7 | D | B | P | S | X                                                 | X | - | X | X                                                                                                                                                                  | N | X                                | X | X                            | B | A                                                                  | - | 0       | 1 |
|   |   |   |   |   |   | PS: Press fit                                     |   |   |   | M: Male<br>F: Female                                                                                                                                               |   | No. of Contacts<br>(09/15/25/37) |   | N: None<br>B: With Boardlock |   | S0: Selective Au<br>SF: Selective Au 15u"<br>SD: Selective Au 30u" |   | A: Tray |   |
|   |   |   |   |   |   | 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) |   |   |   | N: Non Accessories<br>A: Rivet<br>F: Rear Rivet #4-40, Height=4.0<br>G: Rear Rivet M3, Height=4.0<br>H: Front Rivet, Height=5.8mm<br>J: Front Rivet M3, Height=5.8 |   |                                  |   |                              |   |                                                                    |   |         |   |

Type See Page 5-2

Old P/N: DBDF-M/F

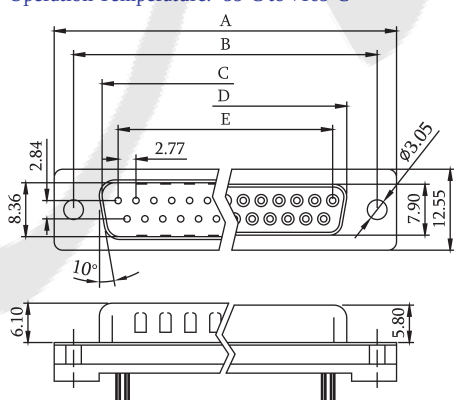
## D-SUB Dip Vertical With Standoff Type

### Specifications

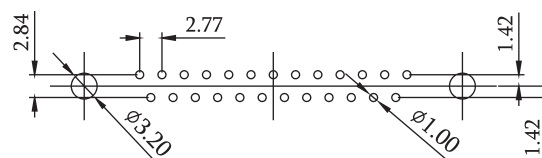
Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 20mΩ Max.  
Dielectric Voltage: 1000V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

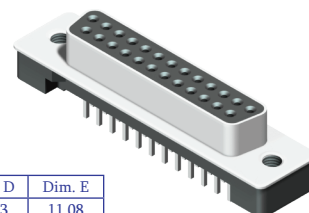
Insulator: PBT, UL 94V-0  
Terminal: Copper Alloy.



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D | Dim. E |
|-----------------|--------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.92  | 16.33  | 11.08  |
| 15              | 39.20  | 33.32  | 25.25  | 24.70  | 19.39  |
| 25              | 53.05  | 47.04  | 38.96  | 38.40  | 33.24  |
| 37              | 69.40  | 63.50  | 55.42  | 54.80  | 49.86  |



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



## ORDER INFORMATION

|   |   |   |   |   |   |                                                   |   |   |   |                              |   |                                  |   |                                                         |   |                                                                    |   |         |   |
|---|---|---|---|---|---|---------------------------------------------------|---|---|---|------------------------------|---|----------------------------------|---|---------------------------------------------------------|---|--------------------------------------------------------------------|---|---------|---|
| 5 | 7 | D | B | D | S | X                                                 | X | - | X | X                            | X | X                                | X | X                                                       | B | A                                                                  | - | A       | 1 |
|   |   |   |   |   |   | DS: DIP Vertical                                  |   |   |   | M: Male<br>F: Female         |   | No. of Contacts<br>(09/15/25/37) |   | N: Non Accessories<br>A: Rivet<br>C: Rivet Screw Insert |   | S0: Selective Au<br>SF: Selective Au 15u"<br>SD: Selective Au 30u" |   | A: Tray |   |
|   |   |   |   |   |   | 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) |   |   |   | N: None<br>B: With Boardlock |   |                                  |   |                                                         |   |                                                                    |   |         |   |

Type See Page 5-2

Old P/N: DBDA-M/F

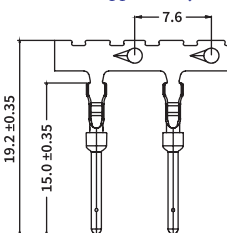
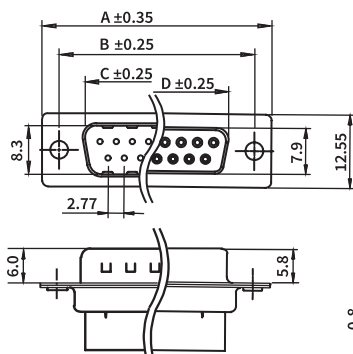
## D-SUB Crimp Type

### Specifications

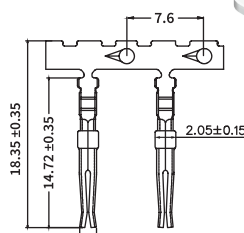
Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 30mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

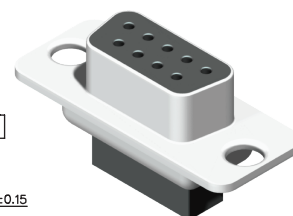
Insulator: PBT+30% G.F., UL 94V-0  
Contact Pin: Copper Alloy



Crimp Pin Male Terminal  
Part No.: 32BR-S00M0002



Crimp Pin Female Terminal  
Part No.: 32BR-S00F0002



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.95  | 16.30  |
| 15              | 39.14  | 33.32  | 25.30  | 24.75  |
| 25              | 53.04  | 47.04  | 39.00  | 38.35  |
| 37              | 69.32  | 63.50  | 55.40  | 54.75  |

## ORDER INFORMATION

|   |   |   |   |   |   |                                                     |                      |                                  |   |   |         |                                                                                                                                                                         |   |   |   |                    |   |         |   |  |
|---|---|---|---|---|---|-----------------------------------------------------|----------------------|----------------------------------|---|---|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--------------------|---|---------|---|--|
| 5 | 7 | D | B | C | S | X                                                   | X                    | -                                | X | X | N       | X                                                                                                                                                                       | 0 | 0 | B | A                  | - | X       | X |  |
|   |   |   |   |   |   | 1: Tin shell + L(RoHS)<br>2: Nickel shell + L(RoHS) | M: Male<br>F: Female | No. of Contacts<br>(09/15/25/37) |   |   | N: None | N: Clear Hole Ø3.05mm<br>F: Rear rivet #4-40 height=4.0mm<br>I: Rear rivet #4-40 height=5.8mm<br>H: Front rivet #4-40 height=5.8mm<br>D: Front rivet #4-40 height=4.0mm |   |   |   | B: Black Insulator |   | A: Tray |   |  |

Type See Page 5-2

Old P/N: DBC-M/F

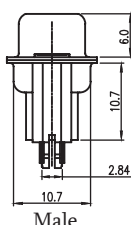
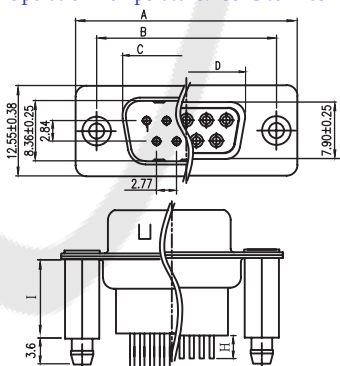
## D-SUB Elevated Dip Vertical Type

### Specifications

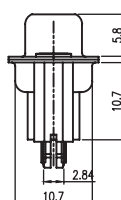
Current Rate: 3 AMP  
Insulation Resistance: 1000MΩ Min.  
Contact Resistance: 20mΩ Max.  
Dielectric Voltage: 1000V AC for one minute  
Operation Temperature: -55°C to +105°C

### Material

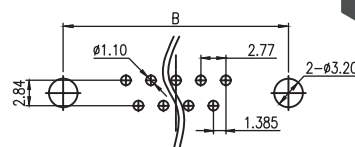
Insulator: PBT+30% G.F., UL 94V-0  
Terminal: Copper Alloy  
Dim. H/I (Fill in Dimension For Special Design)  
Elevated Dim. I: 10.8 / 11.1 / 12.7 / 14.5  
Tail Length Dim. H: 3.6 / 4.2 / 5.4 / 7.2



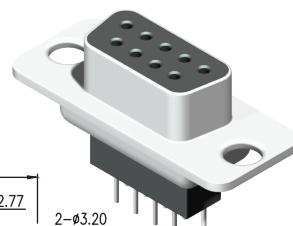
Male



Female



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09              | 30.81  | 24.99  | 16.92  | 16.33  |
| 15              | 39.14  | 33.32  | 25.50  | 24.66  |
| 25              | 53.04  | 47.04  | 38.96  | 38.38  |
| 37              | 69.32  | 63.50  | 55.42  | 54.84  |

## ORDER INFORMATION

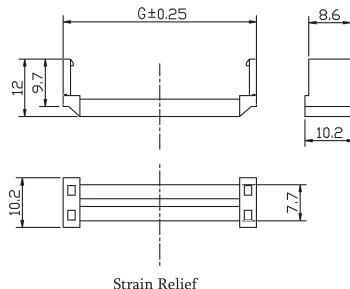
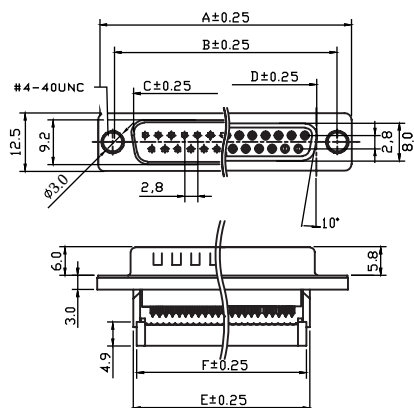
|   |   |   |   |   |   |                                                   |                      |                                  |   |   |                              |                                                                                                                                                                                                           |   |  |                                                                           |   |                    |         |   |   |   |
|---|---|---|---|---|---|---------------------------------------------------|----------------------|----------------------------------|---|---|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|---------------------------------------------------------------------------|---|--------------------|---------|---|---|---|
| 5 | 7 | D | E | D | S | X                                                 | X                    | -                                | X | X | X                            |                                                                                                                                                                                                           | X |  | X                                                                         | X | B                  | A       | - | X | X |
|   |   |   |   |   |   | 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) | M: Male<br>F: Female | No. of Contacts<br>(09/15/25/37) |   |   | N: None<br>B: With Boardlock | N: Ø 3.05 Clear Hole<br>F: Rear Rivet #4-40, H=4.0<br>A: Thread Insert #4-40<br>B: Thread Insert #4-40 UNC + Jack Screw #4-40 UNC Attached<br>C: Thread Insert #4-40 UNC + Jack Screw #4-40 UNC Removable |   |  |                                                                           |   | B: Black Insulator | A: Tray |   |   |   |
|   |   |   |   |   |   |                                                   |                      |                                  |   |   |                              |                                                                                                                                                                                                           |   |  | G0: Gold Flash<br>GA: Au 5u"<br>GB: Au 10u"<br>GC: Au 20u"<br>GD: Au 30u" |   |                    |         |   |   |   |

Type See Page 5-2

Old P/N: DBE-M/F

## Specifications

## Material



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D | Dim. E | Dim. F | Dim. G |
|-----------------|--------|--------|--------|--------|--------|--------|--------|
| 09              | 30.80  | 25.00  | 17.90  | 16.35  | 16.80  | 15.00  | 18.70  |
| 15              | 39.20  | 33.30  | 26.20  | 24.70  | 24.95  | 23.65  | 26.90  |
| 25              | 53.00  | 47.00  | 39.80  | 38.40  | 40.10  | 38.60  | 42.20  |
| 37              | 69.50  | 63.50  | 56.50  | 54.80  | 55.50  | 53.90  | 57.60  |

5 7 D 3 I S    X    X -    X X    X    X    X X    B    A - X X

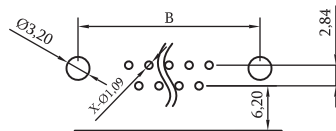
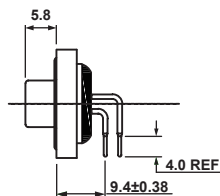
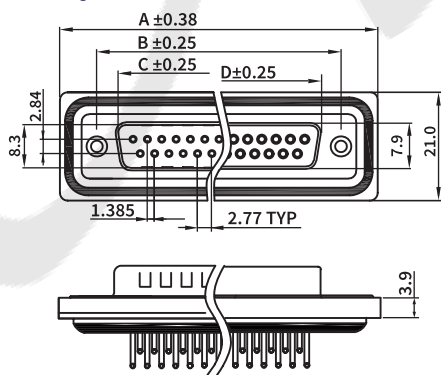
|                                                                        |                    |                                  |                                                                                                                                                                                        |                                                                                                       |        |
|------------------------------------------------------------------------|--------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------|
| IS:IDC                                                                 | M:Male<br>F:Female | No. of Contacts<br>(09/15/25/37) | N:None<br>E:Plastic SR<br>(For DBI)                                                                                                                                                    | B:Black Insulator                                                                                     | A:Tray |
| 0:No Shell+ L(RoHS)<br>1:Tin Shell+ L(RoHS)<br>2:Nickel Shell+ L(RoHS) |                    |                                  | N:Non Accessories<br>A:Rivet<br>D:Front Rivet #4-40, Height=4.0<br>E:Front Rivet M3, Height=4.0<br>F:Rear Rivet #4-40, Height=4.0<br>G:Rear Rivet M3, Height=4.0<br>O:Thread Insert M3 | S0:Selective Au<br>SA:Selective 5u"<br>SB:Selective 10u"<br>SC:Selective 20u"<br>SD:Selective Au 30u" |        |

Type See Page 5-2

Old P/N:DBI1/3

## Specifications

### Material



Recommended PCB Layout  
(PCB TOLERANCE  $\pm 0.05$ )

| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09              | 39.40  | 24.99  | 16.92  | 16.33  |
| 15              | 47.70  | 33.30  | 25.25  | 24.66  |
| 25              | 64.50  | 47.04  | 38.96  | 38.38  |

5 7 W D D R X X - X X N X X X X A - X X

[illegible]

Type See Page 5-2

Old P/N:WDBR-M/F

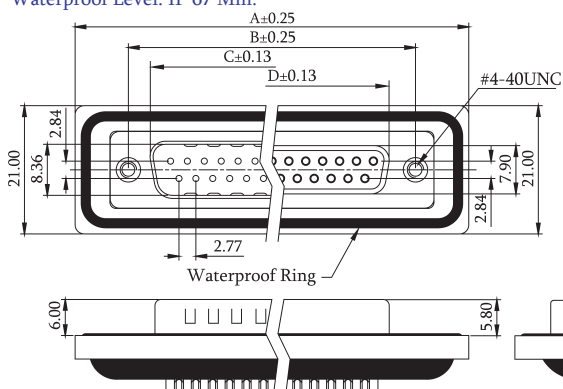
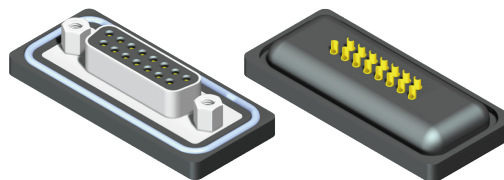
## D-SUB Waterproof Solder Type

### Specifications

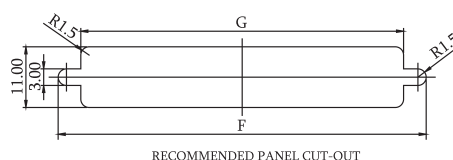
Current Rate: 5 AMP  
Insulation Resistance: 5000MΩ Min.  
Contact Resistance: 10mΩ Max.  
Dielectric Voltage: 500V AC for one minute  
Operation Temperature: -55°C to +85°C  
Waterproof Level: IP 67 Min.

### Material

Insulator: PBT, UL 94V-0  
Contact Pin: Copper Alloy



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D | Dim. F | Dim. G |
|-----------------|--------|--------|--------|--------|--------|--------|
| 09              | 39.40  | 24.99  | 16.92  | 16.33  | 28.20  | 20.00  |
| 15              | 47.70  | 33.30  | 25.25  | 24.66  | 36.50  | 28.00  |
| 25              | 64.50  | 47.04  | 38.96  | 38.38  | 51.00  | 41.50  |
| 37              | 80.95  | 63.50  | 55.42  | 54.84  | 66.70  | 58.50  |



## ORDER INFORMATION

|           |   |   |   |   |                                                   |   |                      |   |                               |   |         |   |                                       |   |                                              |   |   |                    |  |         |  |
|-----------|---|---|---|---|---------------------------------------------------|---|----------------------|---|-------------------------------|---|---------|---|---------------------------------------|---|----------------------------------------------|---|---|--------------------|--|---------|--|
| 5         | 7 | W | D | S | S                                                 | X | X                    | - | X                             | X | X       | X | B                                     | A | -                                            | X | X |                    |  |         |  |
| SS:Solder |   |   |   |   | 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) |   | M: Male<br>F: Female |   | No. of Contacts<br>(09/15/25) |   | N: None |   | A: Rivet<br>B: Rivet + Screw Attached |   | G0: Gold Flash<br>GB: Au 15u"<br>GD: Au 30u" |   |   | B: Black Insulator |  | A: Tray |  |

Type See Page 5-2

Old P/N: WDBS-M/F

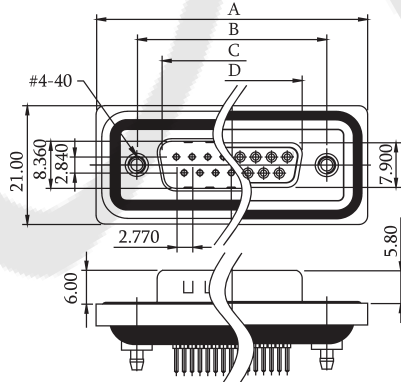
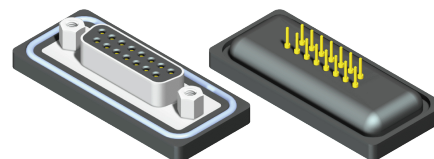
## D-SUB Waterproof Dip Vertical Type

### Specifications

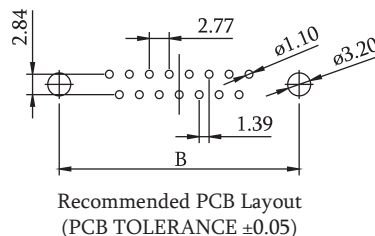
Current Rate: 5 AMP  
Insulation Resistance: 5000MΩ Min.  
Contact Resistance: 10mΩ Max.  
Dielectric Voltage: 1000V AC for one minute  
Operation Temperature: -55°C to +85°C  
Waterproof Level: IP 67 Min.

### Material

Insulator: PBT, UL 94V-0  
Terminal: Copper Alloy.  
Dim. H/I  
(Fill in Dimension For Special Design)



| No. of Contacts | Dim. A | Dim. B | Dim. C | Dim. D |
|-----------------|--------|--------|--------|--------|
| 09              | 39.40  | 24.99  | 16.92  | 16.33  |
| 15              | 47.70  | 33.30  | 25.25  | 24.66  |
| 25              | 64.50  | 47.04  | 38.96  | 38.38  |
| 37              | 77.90  | 63.50  | 55.42  | 54.84  |



## ORDER INFORMATION

|                 |   |   |   |   |   |                                                   |   |                      |   |                                  |   |                              |   |                                       |   |                                              |   |                    |  |         |  |
|-----------------|---|---|---|---|---|---------------------------------------------------|---|----------------------|---|----------------------------------|---|------------------------------|---|---------------------------------------|---|----------------------------------------------|---|--------------------|--|---------|--|
| 5               | 7 | W | D | D | S | X                                                 | X | -                    | X | X                                | X | X                            | B | A                                     | - | X                                            | X |                    |  |         |  |
| DS:DIP Vertical |   |   |   |   |   | 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) |   | M: Male<br>F: Female |   | No. of Contacts<br>(09/15/25/37) |   | N: None<br>B: With Boardlock |   | A: Rivet<br>B: Rivet + Screw Attached |   | G0: Gold Flash<br>GB: Au 15u"<br>GD: Au 30u" |   | B: Black Insulator |  | A: Tray |  |

Type See Page 5-2

Old P/N: WDBD-M/F

## D-SUB Power Connector

### Materials and finish

Shell: Steel, dimples on plug

Insulator: PBT thermoplastic, 30% glass filled UL 94V-0 rated

Signal contact material: Copper alloy.

High power contact material: Copper alloy.

### Electrical characteristics

High power contact current rating: 40A max.

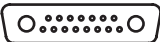
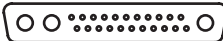
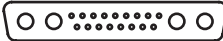
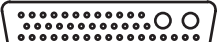
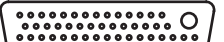
High power contact resistance: 2.7 mΩ max.

Dielectric withstanding voltage: 1000V AC (for 1 minute)

Insulation resistance: 5000 MΩ min.

Temperature rating: -55°C ~ +125°C

## Contact Variants

| Shell Size | Housing Type                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9          |  A1(MALE)  A1(FEMALE)  A2  A3                                                                                                 |
| 15         |  B1(FEMALE)  B1(MALE)  B2  B3  B4 |
| 25         |  C1  C2  C3  C4                                                                                                        |
| 37         |  D1  D4  D7  D6                                                                                                         |
| 50         |  F1  F3  F4                                                                                                                                                                                               |



| Part No.              | Power Rating | Wire Size | Dimension |     |     |
|-----------------------|--------------|-----------|-----------|-----|-----|
|                       |              |           | ØA        | ØB  | ØC  |
| 57PDSSXM-C4NXXXXAX-11 | 10 A         | AWG #8    | 1.7       | 2.5 | 4.5 |
| 57PDSSXM-C4NXXXXAX-21 | 20 A         | AWG #12   | 2.7       | 3.6 | 5.0 |
| 57PDSSXM-C4NXXXXAX-41 | 40 A         | AWG #16   | 4.6       | 5.5 | 5.5 |

| Part No.              | Power Rating | Wire Size | Dimension |     |     |
|-----------------------|--------------|-----------|-----------|-----|-----|
|                       |              |           | ØA        | ØB  | ØC  |
| 57PDSSXF-C3NXXXXAX-11 | 10 A         | AWG #8    | 1.7       | 2.5 | 4.5 |
| 57PDSSXF-C3NXXXXAX-21 | 20 A         | AWG #12   | 2.7       | 3.6 | 5.0 |
| 57PDSSXF-C3NXXXXAX-41 | 40 A         | AWG #16   | 4.6       | 5.5 | 5.5 |

AMTEK

CONNECTORS MANUFACTURE

AMTEK





## D-SUB Coaxial Connector

### Materials and finish

Shell: Steel, dimples on plug

Insulator: PBT thermoplastic, 30% glass filled, UL 94V-0 rated

Coaxial contact material: Copper Alloy

### Electrical characteristics

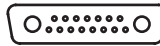
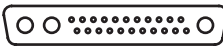
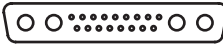
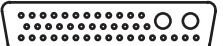
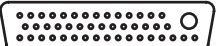
Coaxial contact impedance: 50 or 75  $\Omega$

Dielectric withstanding voltage: 1000V AC (for 1 minute)

Insulation resistance: 5000 M $\Omega$  min.

Temperature rating : -55°C ~ +125°C

## Contact Variants

| Shell Size | Housing Type                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9          |  A1(MALE)  A1(FEMALE)  A2  A3                                                                                            |
| 15         |  B1(FEMALE)  B1(MALE)  B2  B3  B4 |
| 25         |  C1  C2  C3  C4                                                                                                   |
| 37         |  D1  D4  D7  D6                                                                                                    |
| 50         |  F1  F3  F4                                                                                                                                                                                          |

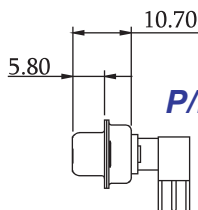
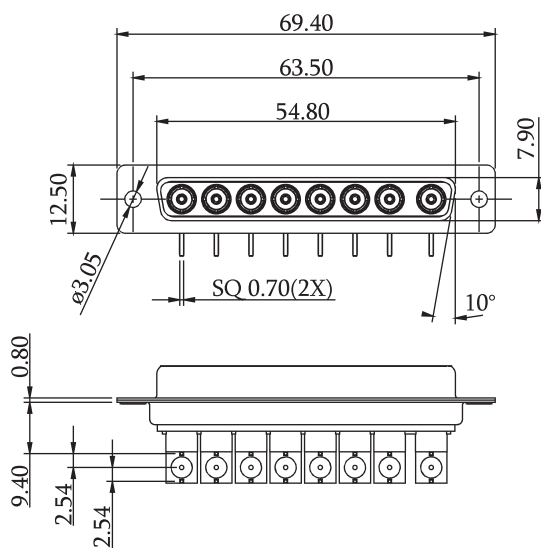
## D-SUB Coaxial Conn. Dip R/A Type

### Specifications

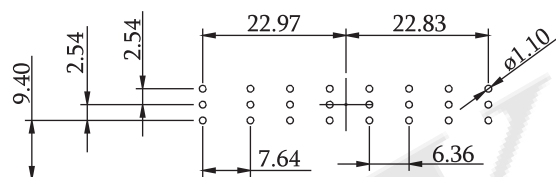
Insulation Resistance: 5GΩ Min.  
Contact Impedance: 50Ω  
Contact Resistance: 2.7mΩ Max.  
Operation Temperature: -55° to +125°C

### Material

Insulator: PBT Thermoplastic, UL 94V-0  
Contact: Copper Alloy



P/N.: 57CDDR2F-D1NNXNBBA-51  
57CDDR2M-D1NNXNBBA-51



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

Old P/N: CDBR

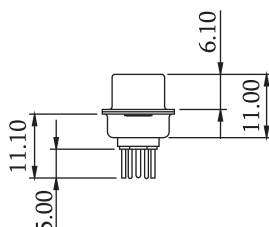
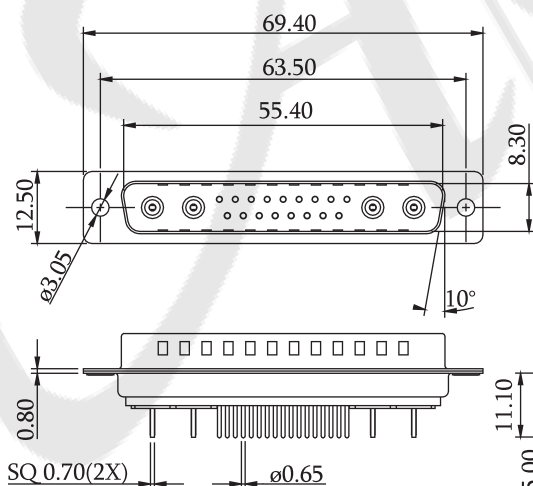
## D-SUB Coaxial Conn. Dip Vertical Type

### Specifications

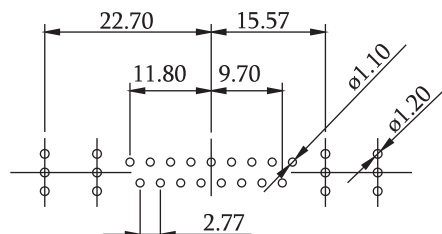
Insulation Resistance: 5GΩ Min.  
Contact Impedance: 50Ω  
Contact Resistance: 2.7mΩ Max.  
Operation Temperature: -55° to +125°C

### Material

Insulator: PBT Thermoplastic, UL 94V-0  
Contact: Copper Alloy



P/N.: 57CDDS2F-D6NNXXBBA-51  
57CDDS2M-D6NNXXBBA-51



Recommended PCB Layout  
(PCB TOLERANCE ±0.05)

## ORDER INFORMATION

|                                                   |   |                      |   |                                                                       |   |                                                                                         |   |                    |   |         |   |                        |   |   |   |   |   |   |   |   |
|---------------------------------------------------|---|----------------------|---|-----------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------|---|--------------------|---|---------|---|------------------------|---|---|---|---|---|---|---|---|
| 5                                                 | 7 | C                    | D | X                                                                     | X | X                                                                                       | X | -                  | X | X       | N | N                      | X | X | B | B | A | - | 5 | 1 |
| DR: DIP R/A<br>DS: DIP Vertical                   |   | M: Male<br>F: Female |   | No. of Contacts<br>(See Page 5-21)                                    |   | N: Non Accessories                                                                      |   | B: Black Insulator |   | A: Tray |   | Performance<br>5: 50 Ω |   |   |   |   |   |   |   |   |
| 1: Tin Shell+ L(RoHS)<br>2: Nickel Shell+ L(RoHS) |   | N: None              |   | Power Contact plated<br>1: Gold Flash<br>5: Gold 30u"<br>6: Gold 15u" |   | Signal Contact plated<br>1: Gold Flash<br>5: Gold 30u"<br>6: Gold 15u"<br>N: Non Signal |   |                    |   |         |   |                        |   |   |   |   |   |   |   |   |

Old P/N: CDBD



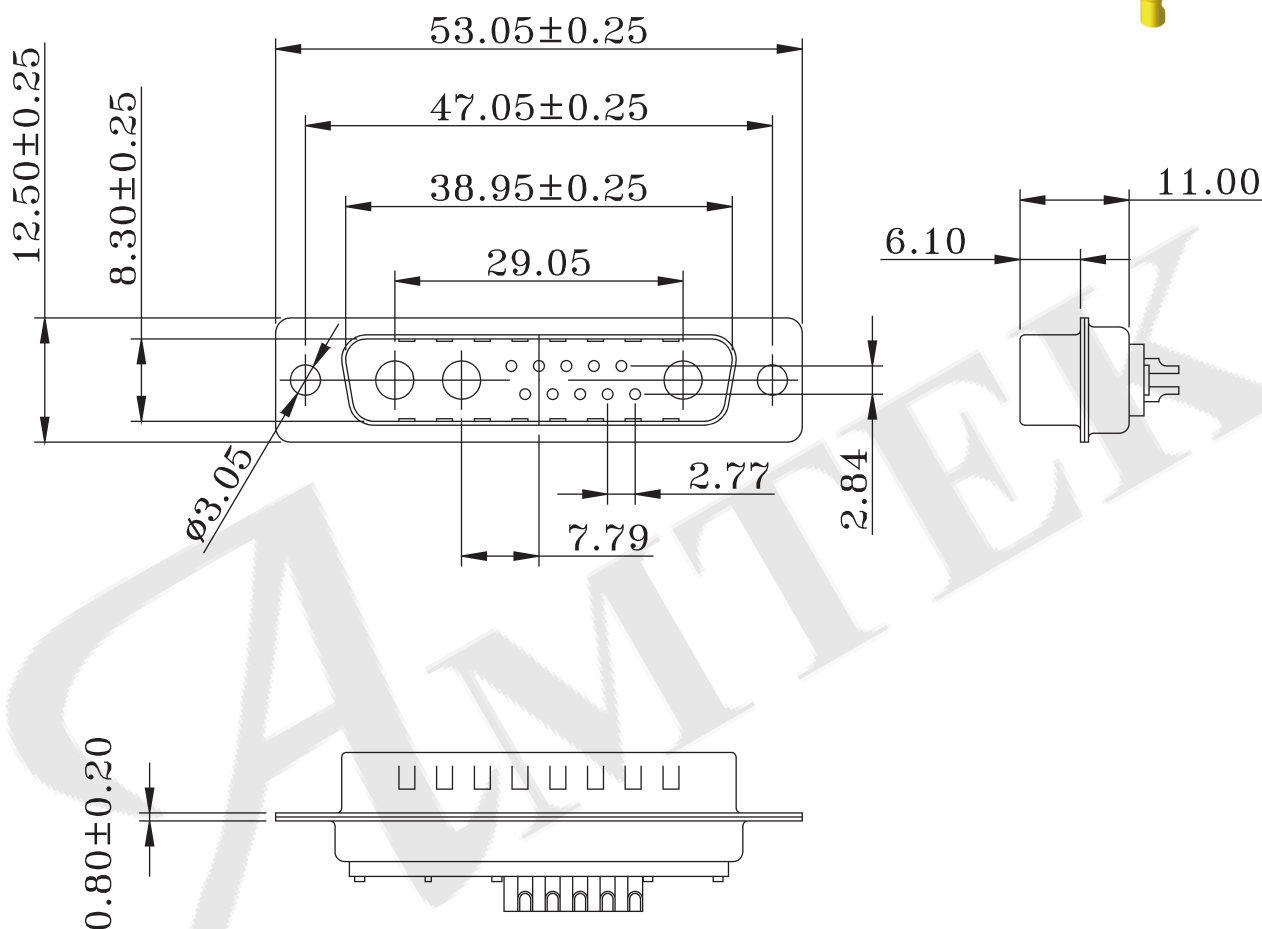
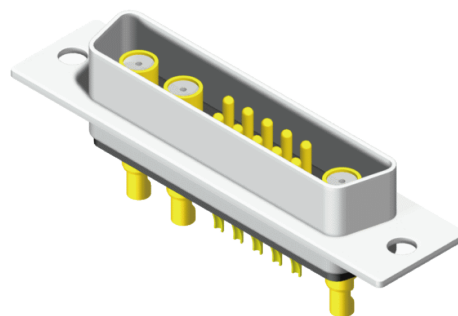
## D-SUB Coaxial Conn. Solder Type

### Specifications

Insulation Resistance: 5GΩ Min.  
Contact Impedance: 50Ω  
Contact Resistance: 10mΩ Max.  
Operation Temperature: -55° to +125°C

### Material

Insulator: PBT Thermoplastic, UL 94V-0  
Contact: Copper Alloy



## ORDER INFORMATION

|   |   |   |   |                    |   |                         |   |        |   |                                    |   |                                                                             |   |                                                                              |   |        |   |                       |   |   |  |
|---|---|---|---|--------------------|---|-------------------------|---|--------|---|------------------------------------|---|-----------------------------------------------------------------------------|---|------------------------------------------------------------------------------|---|--------|---|-----------------------|---|---|--|
| 5 | 7 | C | D | S                  | S | 2                       | M | -      | X | X                                  | N | N                                                                           | X | X                                                                            | B | B      | A | -                     | 5 | 1 |  |
|   |   |   |   | SS:Solder Vertical |   | 2:Nickel Shell+ L(RoHS) |   | M:Male |   | No. of Contacts<br>(See Page 5-21) |   | N:Non Accessories                                                           |   | B:Black Insulator                                                            |   | A:Tray |   | Performance<br>5:50 Ω |   |   |  |
|   |   |   |   |                    |   |                         |   |        |   | N:None                             |   | Power Contact plated<br>1=G0:Gold Flash<br>5=GD:Gold 30u"<br>6=GF:Gold 15u" |   | Signal Contact plated<br>1=G0:Gold Flash<br>5=GD:Gold 30u"<br>6=GF:Gold 15u" |   |        |   |                       |   |   |  |

Old P/N:CDBS