

PART NUMBER CREATOR

6 S T D 0 9 S A M 9 9 B 3 O X

Product Line

- 6 = Shell brass tin plated with die-cast frame
- 4 = Shell brass tin plated with plastic frame or without frame
- 8\* = Shell stainless steel with or without die-cast frame
- 9\* = Shell stainless steel with plastic frame
- \* on request

Variations

- STD = D-SUBMINIATURE, Standard
- HDD = D-SUBMINIATURE, High Density

Position for STD

- 09 = 9 pos.
- 15 = 15 pos.
- 25 = 25 pos.
- 37 = 37 pos.
- 50 = 50 pos.

Position for HDD

- 15 = 15 pos.
- 26 = 26 pos.
- 44 = 44 pos.
- 62 = 62 pos.
- 78 = 78 pos.

Contact type

- P = Plug connector
- S = Socket connector
- A = Adapter

Quality class for contacts

- A = Quality class 3 = 50 mating cycles
- B = Quality class 2 = 200 mating cycles
- C = Quality class 1 = 500 mating cycles

Termination

- M = Solder cup
- R = Solder pin, straight
- T = Solder pin, angled, .189"/4.80 mm
- U = Solder pin, angled, .276"/7.00 mm
- Z = Solder pin, angled, .465"/11.8 mm
- Y = Solder pin, angled, .220"/5.60 mm (high density design only)
- A = Adapter

Capacitance

- 99 = Without filter for STD and HDD

Mounting style

- |                                                            |                                                               |
|------------------------------------------------------------|---------------------------------------------------------------|
| A1 = Riveted for wire assembly shell without sealing frame | E2 = 4-40 UNC Threaded rear spacer with PCB clip, PCB 1,60 mm |
| B2 = M3 threaded insert                                    | S1 = Metal bracket, M3 threaded insert                        |
| B3 = 4-40 UNC threaded insert                              | S2 = Metal bracket, 4-40 UNC threaded insert                  |
| B4 = M3 front spacer                                       | S3 = Metal bracket, M3 threaded insert and PCB clip           |
| B5 = 4-40 UNC front spacer                                 | S4 = Metal bracket, 4-40 UNC threaded insert and PCB clip     |
| B7 = 4-40 UNC front spacer and rear mounting stud          | R1 = Metal bracket, M3 threaded insert                        |
| B8 = M3 threaded lock for adapter                          | R2 = Metal bracket, 4-40 UNC threaded insert                  |
| B9 = 4-40 UNC front spacer for adapter                     | R3 = Metal bracket, M3 threaded insert and PCB clip           |
| E1 = M3 threaded rear spacer with PCB clip .063" / 1.60 mm | R4 = Metal bracket, 4-40 UNC threaded insert and PCB clip     |

- OX = Standard

## PANEL MOUNTING

### FRONT PANEL MOUNTING



### REAR PANEL MOUNTING



The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm such that it does not extend beyond the plug-in height. Furthermore, the hex bolts outside threads are shorter than standard hex bolts. Material: stainless steel.

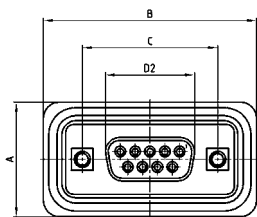
# IP67 D-SUB STANDARD

Solder cup – Precision machined contacts – For wire size AWG 20



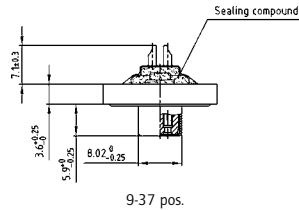
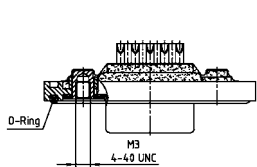
RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

## SOCKET CONNECTOR

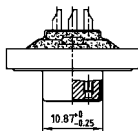


| No. of pos. | A +0.3 | B +0.3 | C                    | D2 -0.25 |
|-------------|--------|--------|----------------------|----------|
| 09          | 21.10  | 39.40  | 25.00 +0.12<br>-0.10 | 16.46    |
| 15          | 21.10  | 47.70  | 33.30 +0.15<br>-0.10 | 24.79    |
| 25          | 21.10  | 61.40  | 47.04 +0.13          | 38.50    |
| 37          | 21.10  | 77.90  | 63.50 +0.13          | 54.96    |
| 50          | 23.90  | 75.50  | 61.10 +0.14<br>-0.11 | 52.55    |

Mounting style: Threaded insert



9-37 pos.

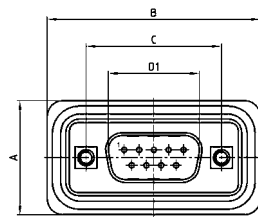


50 pos.

## DESCRIPTION

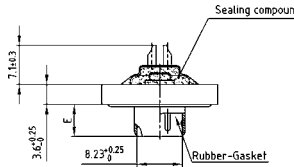
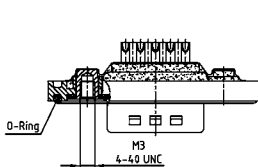
- Suitable for wire size **AWG 20**
- Mounting style:  
with 4-40 UNC or M3 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame  
(Black plastic frame on request)

## PLUG CONNECTOR

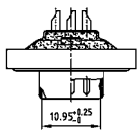


| No. of pos. | A +0.3 | B +0.3 | C                    | D1 +0.25 | E -0.30 |
|-------------|--------|--------|----------------------|----------|---------|
| 9           | 21.10  | 39.40  | 25.00 +0.12<br>-0.10 | 16.79    | 5.82    |
| 15          | 21.10  | 47.70  | 33.30 +0.15<br>-0.10 | 25.12    | 5.82    |
| 25          | 21.10  | 61.40  | 47.04 +0.13          | 38.84    | 5.69    |
| 37          | 21.10  | 77.90  | 63.50 +0.13          | 55.30    | 5.69    |
| 50          | 23.90  | 75.50  | 61.10 +0.14<br>-0.11 | 52.68    | 5.69    |

Mounting style: Threaded insert



9-37 pos.



50 pos.

## ORDER DATA

| SOCKET CONNECTOR |                          |                 |
|------------------|--------------------------|-----------------|
| No. of pos.      | Mounting style           | Part Number     |
| 09               | M3 Threaded insert       | 6STD09SAM99B20X |
| 15               | M3 Threaded insert       | 6STD15SAM99B20X |
| 25               | M3 Threaded insert       | 6STD25SAM99B20X |
| 37               | M3 Threaded insert       | 6STD37SAM99B20X |
| 50               | M3 Threaded insert       | 6STD50SAM99B20X |
| 09               | 4-40 UNC Threaded insert | 6STD09SAM99B30X |
| 15               | 4-40 UNC Threaded insert | 6STD15SAM99B30X |
| 25               | 4-40 UNC Threaded insert | 6STD25SAM99B30X |
| 37               | 4-40 UNC Threaded insert | 6STD37SAM99B30X |
| 50               | 4-40 UNC Threaded insert | 6STD50SAM99B30X |

| PLUG CONNECTOR |                          |                 |
|----------------|--------------------------|-----------------|
| No. of pos.    | Mounting style           | Part Number     |
| 09             | M3 Threaded insert       | 6STD09PAM99B20X |
| 15             | M3 Threaded insert       | 6STD15PAM99B20X |
| 25             | M3 Threaded insert       | 6STD25PAM99B20X |
| 37             | M3 Threaded insert       | 6STD37PAM99B20X |
| 50             | M3 Threaded insert       | 6STD50PAM99B20X |
| 09             | 4-40 UNC Threaded insert | 6STD09PAM99B30X |
| 15             | 4-40 UNC Threaded insert | 6STD15PAM99B30X |
| 25             | 4-40 UNC Threaded insert | 6STD25PAM99B30X |
| 37             | 4-40 UNC Threaded insert | 6STD37PAM99B30X |
| 50             | 4-40 UNC Threaded insert | 6STD50PAM99B30X |

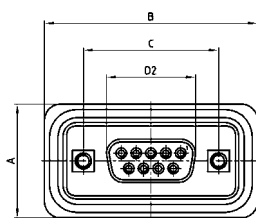
# IP67 D-SUB STANDARD

Solder pin – Straight – Precision machined contacts



RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

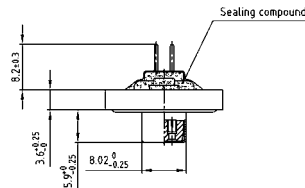
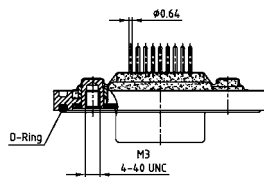
## SOCKET CONNECTOR



| No. of pos. | A +0.3 | B +0.3 | C                | D2 -0.25 |
|-------------|--------|--------|------------------|----------|
| 09          | 21.10  | 39.40  | 25.00 $\pm 0.12$ | 16.46    |
| 15          | 21.10  | 47.70  | 33.30 $\pm 0.15$ | 24.79    |
| 25          | 21.10  | 61.40  | 47.04 $\pm 0.13$ | 38.50    |
| 37          | 21.10  | 77.90  | 63.50 $\pm 0.13$ | 54.96    |
| 50          | 23.90  | 75.50  | 61.10 $\pm 0.14$ | 52.55    |

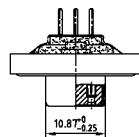
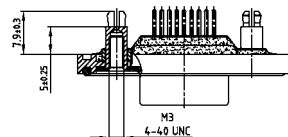
PCB-Layout: Kat1kFVA / Kat1kFUA

Mounting style: Threaded insert



9-37 pos.

Mounting style:  
Threaded rear spacer with PCB clip

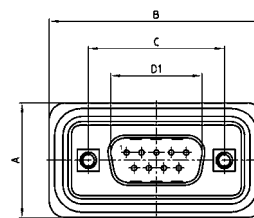


50 pos.

## DESCRIPTION

- Mounting styles:
  - with 4-40 UNC or M3 threaded insert including hex locking bolt
  - with 4-40 UNC or M3 threaded rear spacer and PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

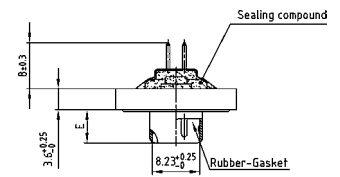
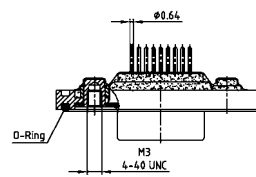
## PLUG CONNECTOR



| No. of pos. | A +0.3 | B +0.3 | C                | D1 -0.25 | E -0.30 |
|-------------|--------|--------|------------------|----------|---------|
| 9           | 21.10  | 39.40  | 25.00 $\pm 0.12$ | 16.79    | 5.82    |
| 15          | 21.10  | 47.70  | 33.30 $\pm 0.15$ | 25.12    | 5.82    |
| 25          | 21.10  | 61.40  | 47.04 $\pm 0.13$ | 38.84    | 5.69    |
| 37          | 21.10  | 77.90  | 63.50 $\pm 0.13$ | 55.30    | 5.69    |
| 50          | 23.90  | 75.50  | 61.10 $\pm 0.14$ | 52.68    | 5.69    |

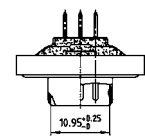
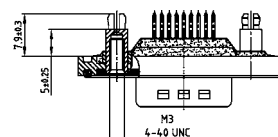
PCB-Layout: Kat1kFVA / Kat1kFUA

Mounting style: Threaded insert



9-37 pos.

Mounting style:  
Threaded rear spacer with PCB clip



50 pos.

## ORDER DATA

### SOCKET CONNECTOR

| No. of pos. | Mounting style                         | Part Number     |
|-------------|----------------------------------------|-----------------|
| 09          | M3 Threaded insert                     | 6STD09SAR99B20X |
| 15          | M3 Threaded insert                     | 6STD15SAR99B20X |
| 25          | M3 Threaded insert                     | 6STD25SAR99B20X |
| 37          | M3 Threaded insert                     | 6STD37SAR99B20X |
| 50          | M3 Threaded insert                     | 6STD50SAR99B20X |
| 09          | 4-40 UNC Threaded insert               | 6STD09SAR99B30X |
| 15          | 4-40 UNC Threaded insert               | 6STD15SAR99B30X |
| 25          | 4-40 UNC Threaded insert               | 6STD25SAR99B30X |
| 37          | 4-40 UNC Threaded insert               | 6STD37SAR99B30X |
| 50          | 4-40 UNC Threaded insert               | 6STD50SAR99B30X |
| 09          | M3 Threaded rear spacer PCB clip       | 6STD09SAR99E10X |
| 15          | M3 Threaded rear spacer PCB clip       | 6STD15SAR99E10X |
| 25          | M3 Threaded rear spacer PCB clip       | 6STD25SAR99E10X |
| 37          | M3 Threaded rear spacer PCB clip       | 6STD37SAR99E10X |
| 50          | M3 Threaded rear spacer PCB clip       | 6STD50SAR99E10X |
| 09          | 4-40 UNC Threaded rear spacer PCB clip | 6STD09SAR99E20X |
| 15          | 4-40 UNC Threaded rear spacer PCB clip | 6STD15SAR99E20X |
| 25          | 4-40 UNC Threaded rear spacer PCB clip | 6STD25SAR99E20X |
| 37          | 4-40 UNC Threaded rear spacer PCB clip | 6STD37SAR99E20X |
| 50          | 4-40 UNC Threaded rear spacer PCB clip | 6STD50SAR99E20X |

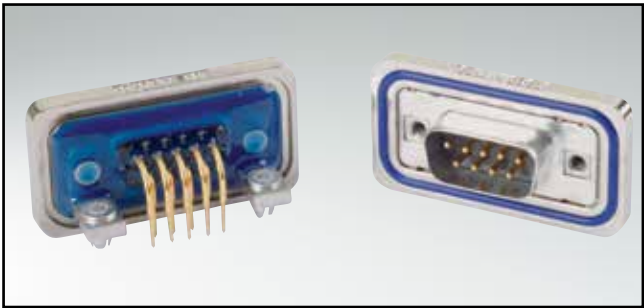
### PLUG CONNECTOR

| No. of pos. | Mounting style                         | Part Number     |
|-------------|----------------------------------------|-----------------|
| 09          | M3 Threaded insert                     | 6STD09PAR99B20X |
| 15          | M3 Threaded insert                     | 6STD15PAR99B20X |
| 25          | M3 Threaded insert                     | 6STD25PAR99B20X |
| 37          | M3 Threaded insert                     | 6STD37PAR99B20X |
| 50          | M3 Threaded insert                     | 6STD50PAR99B20X |
| 09          | 4-40 UNC Threaded insert               | 6STD09PAR99B30X |
| 15          | 4-40 UNC Threaded insert               | 6STD15PAR99B30X |
| 25          | 4-40 UNC Threaded insert               | 6STD25PAR99B30X |
| 37          | 4-40 UNC Threaded insert               | 6STD37PAR99B30X |
| 50          | 4-40 UNC Threaded insert               | 6STD50PAR99B30X |
| 09          | M3 Threaded rear spacer PCB clip       | 6STD09PAR99E10X |
| 15          | M3 Threaded rear spacer PCB clip       | 6STD15PAR99E10X |
| 25          | M3 Threaded rear spacer PCB clip       | 6STD25PAR99E10X |
| 37          | M3 Threaded rear spacer PCB clip       | 6STD37PAR99E10X |
| 50          | M3 Threaded rear spacer PCB clip       | 6STD50PAR99E10X |
| 09          | 4-40 UNC Threaded rear spacer PCB clip | 6STD09PAR99E20X |
| 15          | 4-40 UNC Threaded rear spacer PCB clip | 6STD15PAR99E20X |
| 25          | 4-40 UNC Threaded rear spacer PCB clip | 6STD25PAR99E20X |
| 37          | 4-40 UNC Threaded rear spacer PCB clip | 6STD37PAR99E20X |
| 50          | 4-40 UNC Threaded rear spacer PCB clip | 6STD50PAR99E20X |

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

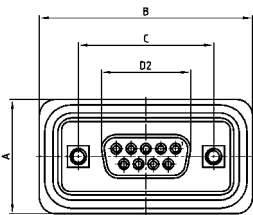
IP67 D-SUB STANDARD

Solder pin – Angled – .189"/4.8 mm – Precision machined contacts – Metal bracket



RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

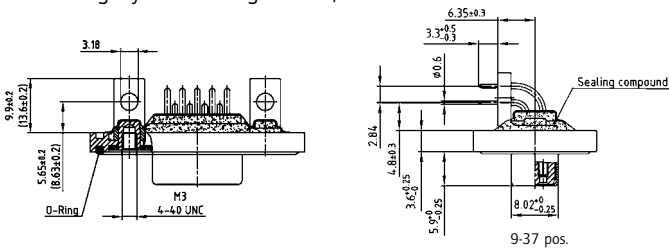
SOCKET CONNECTOR



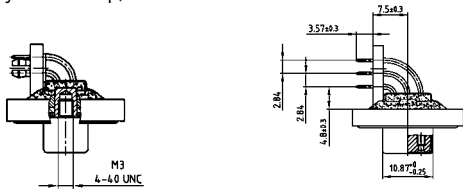
| No. of pos. | A +0.3 | B +0.3 | C           | D2 -0.25 |
|-------------|--------|--------|-------------|----------|
| 09          | 21.10  | 39.40  | 25.00 +0.12 | 16.46    |
| 15          | 21.10  | 47.70  | 33.30 +0.15 | 24.79    |
| 25          | 21.10  | 61.40  | 47.04 +0.13 | 38.50    |
| 37          | 21.10  | 77.90  | 63.50 +0.13 | 54.96    |
| 50          | 23.90  | 75.50  | 61.10 +0.14 | 52.55    |

PCB-Layout: Kat1kGSA

Mounting style: Mounting bracket, threaded insert



Mounting style: PCB clip, threaded insert



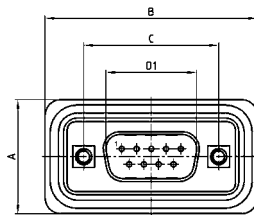
ORDER DATA

| SOCKET CONNECTOR |                                   |                 |
|------------------|-----------------------------------|-----------------|
| No. of pos.      | Mounting style                    | Part Number     |
| 09               | M3 Threaded insert                | 6STD09SAT99S10X |
| 15               | M3 Threaded insert                | 6STD15SAT99S10X |
| 25               | M3 Threaded insert                | 6STD25SAT99S10X |
| 37               | M3 Threaded insert                | 6STD37SAT99S10X |
| 50               | M3 Threaded insert                | 6STD50SAT99S10X |
| 09               | 4-40 UNC Threaded insert          | 6STD09SAT99S20X |
| 15               | 4-40 UNC Threaded insert          | 6STD15SAT99S20X |
| 25               | 4-40 UNC Threaded insert          | 6STD25SAT99S20X |
| 37               | 4-40 UNC Threaded insert          | 6STD37SAT99S20X |
| 50               | 4-40 UNC Threaded insert          | 6STD50SAT99S20X |
| 09               | PCB clip/M3 Threaded insert       | 6STD09SAT99S30X |
| 15               | PCB clip/M3 Threaded insert       | 6STD15SAT99S30X |
| 25               | PCB clip/M3 Threaded insert       | 6STD25SAT99S30X |
| 37               | PCB clip/M3 Threaded insert       | 6STD37SAT99S30X |
| 50               | PCB clip/M3 Threaded insert       | 6STD50SAT99S30X |
| 09               | PCB clip/4-40 UNC Threaded insert | 6STD09SAT99S40X |
| 15               | PCB clip/4-40 UNC Threaded insert | 6STD15SAT99S40X |
| 25               | PCB clip/4-40 UNC Threaded insert | 6STD25SAT99S40X |
| 37               | PCB clip/4-40 UNC Threaded insert | 6STD37SAT99S40X |
| 50               | PCB clip/4-40 UNC Threaded insert | 6STD50SAT99S40X |

DESCRIPTION

- Mounting styles:
  - with mounting bracket and 4-40 UNC or M3 threaded insert including hex locking bolt
  - with mounting bracket, PCB clip and M3 or UNC 4-40 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

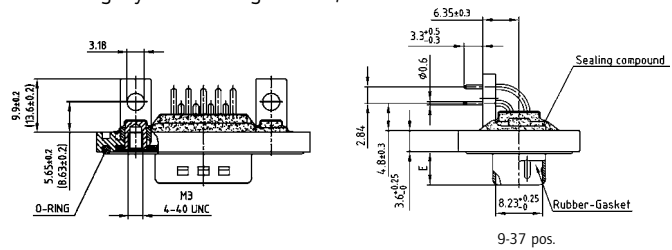
PLUG CONNECTOR



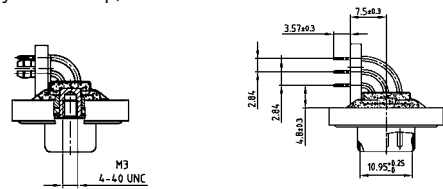
| No. of pos. | A +0.3 | B +0.3 | C           | D1 -0.25 | E -0.30 |
|-------------|--------|--------|-------------|----------|---------|
| 9           | 21.10  | 39.40  | 25.00 +0.12 | 16.79    | 5.82    |
| 15          | 21.10  | 47.70  | 33.30 +0.15 | 25.12    | 5.82    |
| 25          | 21.10  | 61.40  | 47.04 +0.13 | 38.84    | 5.69    |
| 37          | 21.10  | 77.90  | 63.50 +0.13 | 55.30    | 5.69    |
| 50          | 23.90  | 75.50  | 61.10 +0.14 | 52.68    | 5.69    |

PCB-Layout: Kat1kGSA

Mounting style: Mounting bracket, threaded insert



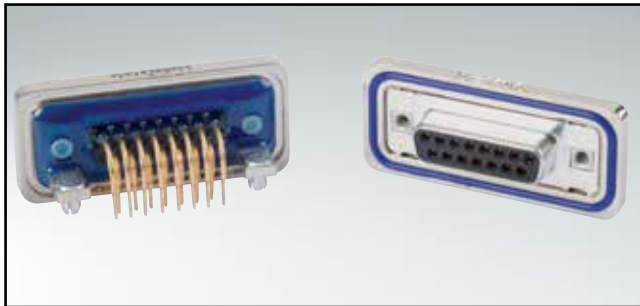
Mounting style: PCB clip, threaded insert



PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

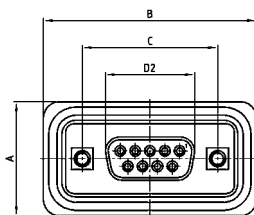
# IP67 D-SUB STANDARD

Solder pin – Angled – .276"/7.0 mm – Precision machined contacts – Metal bracket



RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

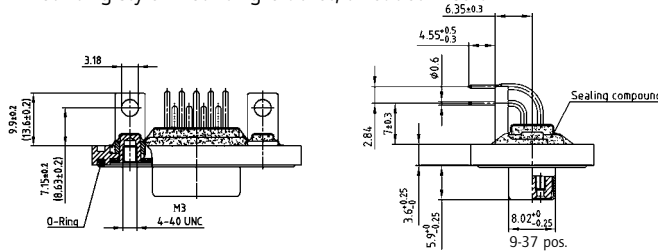
## SOCKET CONNECTOR



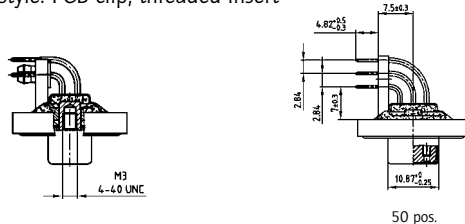
| No. of pos. | A +0.3 | B +0.3 | C                    | D2 -0.25 |
|-------------|--------|--------|----------------------|----------|
| 09          | 21.10  | 39.40  | 25.00 +0.12<br>-0.10 | 16.46    |
| 15          | 21.10  | 47.70  | 33.30 +0.15<br>-0.10 | 24.79    |
| 25          | 21.10  | 61.40  | 47.04 +0.13<br>-0.10 | 38.50    |
| 37          | 21.10  | 77.90  | 63.50 +0.13<br>-0.10 | 54.96    |
| 50          | 23.90  | 75.50  | 61.10 +0.14<br>-0.11 | 52.55    |

PCB-Layout: Kat1kGTA

Mounting style: Mounting bracket, threaded insert



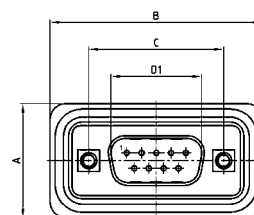
Mounting style: PCB clip, threaded insert



## DESCRIPTION

- Mounting styles:
  - with mounting bracket and 4-40 UNC or M3 threaded insert including hex locking bolt
  - with mounting bracket, PCB clip and M3 or UNC 4-40 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

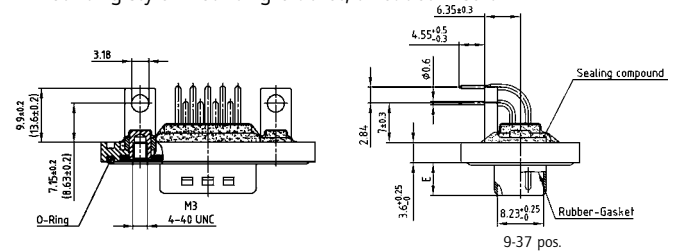
## PLUG CONNECTOR



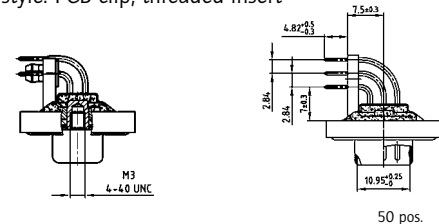
| No. of pos. | A +0.3 | B +0.3 | C                    | D1 -0.25 | E -0.30 |
|-------------|--------|--------|----------------------|----------|---------|
| 9           | 21.10  | 39.40  | 25.00 +0.12<br>-0.10 | 16.79    | 5.82    |
| 15          | 21.10  | 47.70  | 33.30 +0.15<br>-0.10 | 25.12    | 5.82    |
| 25          | 21.10  | 61.40  | 47.04 +0.13<br>-0.10 | 38.84    | 5.69    |
| 37          | 21.10  | 77.90  | 63.50 +0.13<br>-0.10 | 55.30    | 5.69    |
| 50          | 23.90  | 75.50  | 61.10 +0.14<br>-0.11 | 52.68    | 5.69    |

PCB-Layout: Kat1kGTA

Mounting style: Mounting bracket, threaded insert



Mounting style: PCB clip, threaded insert



## ORDER DATA

### SOCKET CONNECTOR

| No. of pos. | Mounting style                    | Part Number     |
|-------------|-----------------------------------|-----------------|
| 09          | M3 Threaded insert                | 6STD09SAU99R10X |
| 15          | M3 Threaded insert                | 6STD15SAU99R10X |
| 25          | M3 Threaded insert                | 6STD25SAU99R10X |
| 37          | M3 Threaded insert                | 6STD37SAU99R10X |
| 50          | M3 Threaded insert                | 6STD50SAU99R10X |
| 09          | 4-40 UNC Threaded insert          | 6STD09SAU99R20X |
| 15          | 4-40 UNC Threaded insert          | 6STD15SAU99R20X |
| 25          | 4-40 UNC Threaded insert          | 6STD25SAU99R20X |
| 37          | 4-40 UNC Threaded insert          | 6STD37SAU99R20X |
| 50          | 4-40 UNC Threaded insert          | 6STD50SAU99R20X |
| 09          | PCB clip/M3 Threaded insert       | 6STD09SAU99R30X |
| 15          | PCB clip/M3 Threaded insert       | 6STD15SAU99R30X |
| 25          | PCB clip/M3 Threaded insert       | 6STD25SAU99R30X |
| 37          | PCB clip/M3 Threaded insert       | 6STD37SAU99R30X |
| 50          | PCB clip/M3 Threaded insert       | 6STD50SAU99R30X |
| 09          | PCB clip/4-40 UNC Threaded insert | 6STD09SAU99R40X |
| 15          | PCB clip/4-40 UNC Threaded insert | 6STD15SAU99R40X |
| 25          | PCB clip/4-40 UNC Threaded insert | 6STD25SAU99R40X |
| 37          | PCB clip/4-40 UNC Threaded insert | 6STD37SAU99R40X |
| 50          | PCB clip/4-40 UNC Threaded insert | 6STD50SAU99R40X |

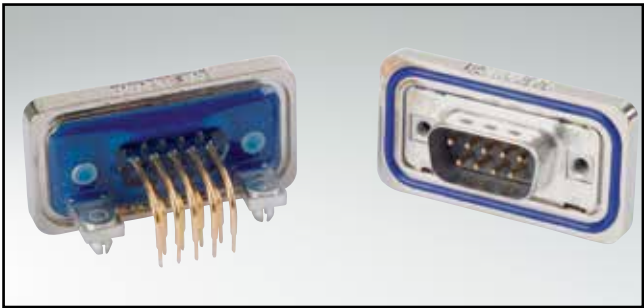
### PLUG CONNECTOR

| No. of pos. | Mounting style                    | Part Number     |
|-------------|-----------------------------------|-----------------|
| 09          | M3 Threaded insert                | 6STD09PAU99R10X |
| 15          | M3 Threaded insert                | 6STD15PAU99R10X |
| 25          | M3 Threaded insert                | 6STD25PAU99R10X |
| 37          | M3 Threaded insert                | 6STD37PAU99R10X |
| 50          | M3 Threaded insert                | 6STD50PAU99R10X |
| 09          | 4-40 UNC Threaded insert          | 6STD09PAU99R20X |
| 15          | 4-40 UNC Threaded insert          | 6STD15PAU99R20X |
| 25          | 4-40 UNC Threaded insert          | 6STD25PAU99R20X |
| 37          | 4-40 UNC Threaded insert          | 6STD37PAU99R20X |
| 50          | 4-40 UNC Threaded insert          | 6STD50PAU99R20X |
| 09          | PCB clip/M3 Threaded insert       | 6STD09PAU99R30X |
| 15          | PCB clip/M3 Threaded insert       | 6STD15PAU99R30X |
| 25          | PCB clip/M3 Threaded insert       | 6STD25PAU99R30X |
| 37          | PCB clip/M3 Threaded insert       | 6STD37PAU99R30X |
| 50          | PCB clip/M3 Threaded insert       | 6STD50PAU99R30X |
| 09          | PCB clip/4-40 UNC Threaded insert | 6STD09PAU99R40X |
| 15          | PCB clip/4-40 UNC Threaded insert | 6STD15PAU99R40X |
| 25          | PCB clip/4-40 UNC Threaded insert | 6STD25PAU99R40X |
| 37          | PCB clip/4-40 UNC Threaded insert | 6STD37PAU99R40X |
| 50          | PCB clip/4-40 UNC Threaded insert | 6STD50PAU99R40X |

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

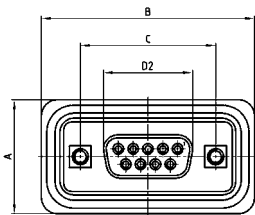
IP67 D-SUB STANDARD

Solder pin – Angled – .464" / 11.8 mm – Precision machined contacts – Metal bracket



RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

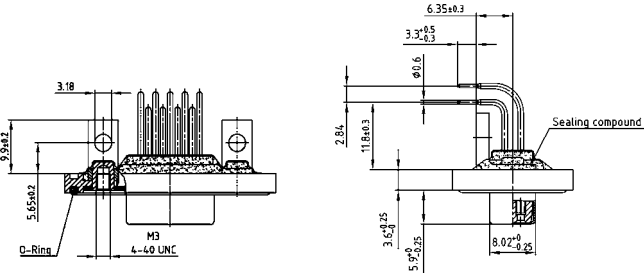
SOCKET CONNECTOR



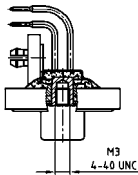
| No. of pos. | A +0.3 | B +0.3 | C                                       | D2 -0.25 |
|-------------|--------|--------|-----------------------------------------|----------|
| 09          | 21.10  | 39.40  | 25.00 <sup>+0.12</sup> <sub>-0.13</sub> | 16.46    |
| 15          | 21.10  | 47.70  | 33.30 <sup>+0.15</sup> <sub>-0.10</sub> | 24.79    |
| 25          | 21.10  | 61.40  | 47.04 <sup>+0.13</sup> <sub>-0.10</sub> | 38.50    |
| 37          | 21.10  | 77.90  | 63.50 <sup>+0.13</sup> <sub>-0.10</sub> | 54.96    |

PCB-Layout: Kat1kGUA

Mounting style: Mounting bracket, threaded insert



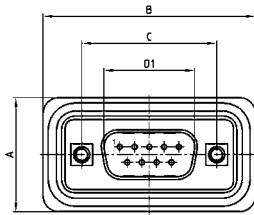
Mounting style: PCB clip, threaded insert



DESCRIPTION

- Mounting styles:
  - with mounting bracket and 4-40 UNC or M3 threaded insert including hex locking bolt
  - with mounting bracket, PCB clip and M3 or UNC 4-40 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

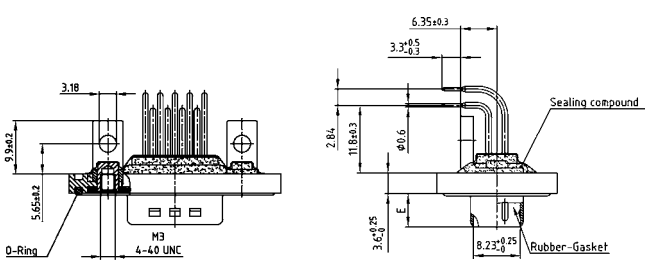
PLUG CONNECTOR



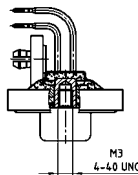
| No. of pos. | A +0.3 | B +0.3 | C                                       | D1 -0.25 | E -0.30 |
|-------------|--------|--------|-----------------------------------------|----------|---------|
| 9           | 21.10  | 39.40  | 25.00 <sup>+0.12</sup> <sub>-0.13</sub> | 16.79    | 5.82    |
| 15          | 21.10  | 47.70  | 33.30 <sup>+0.15</sup> <sub>-0.10</sub> | 25.12    | 5.82    |
| 25          | 21.10  | 61.40  | 47.04 <sup>+0.13</sup> <sub>-0.10</sub> | 38.84    | 5.69    |
| 37          | 21.10  | 77.90  | 63.50 <sup>+0.13</sup> <sub>-0.10</sub> | 55.30    | 5.69    |

PCB-Layout: Kat1kGUA

Mounting style: Mounting bracket, threaded insert



Mounting style: PCB clip, threaded insert



ORDER DATA

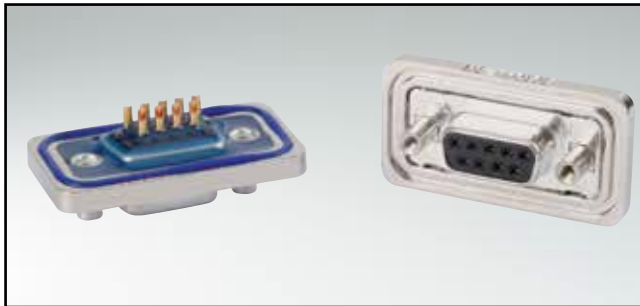
| SOCKET CONNECTOR |                                     |                 |
|------------------|-------------------------------------|-----------------|
| No. of pos.      | Mounting style                      | Part Number     |
| 09               | M3 Threaded insert                  | 6STD09SAZ99S10X |
| 15               | M3 Threaded insert                  | 6STD15SAZ99S10X |
| 25               | M3 Threaded insert                  | 6STD25SAZ99S10X |
| 37               | M3 Threaded insert                  | 6STD37SAZ99S10X |
| 09               | 4-40 UNC Threaded insert            | 6STD09SAZ99S20X |
| 15               | 4-40 UNC Threaded insert            | 6STD15SAZ99S20X |
| 25               | 4-40 UNC Threaded insert            | 6STD25SAZ99S20X |
| 37               | 4-40 UNC Threaded insert            | 6STD37SAZ99S20X |
| 09               | PCB clip / M3 Threaded insert       | 6STD09SAZ99S30X |
| 15               | PCB clip / M3 Threaded insert       | 6STD15SAZ99S30X |
| 25               | PCB clip / M3 Threaded insert       | 6STD25SAZ99S30X |
| 37               | PCB clip / M3 Threaded insert       | 6STD37SAZ99S30X |
| 09               | PCB clip / 4-40 UNC Threaded insert | 6STD09SAZ99S40X |
| 15               | PCB clip / 4-40 UNC Threaded insert | 6STD15SAZ99S40X |
| 25               | PCB clip / 4-40 UNC Threaded insert | 6STD25SAZ99S40X |
| 37               | PCB clip / 4-40 UNC Threaded insert | 6STD37SAZ99S40X |

| PLUG CONNECTOR |                                     |                 |
|----------------|-------------------------------------|-----------------|
| No. of pos.    | Mounting style                      | Part Number     |
| 09             | M3 Threaded insert                  | 6STD09PAZ99S10X |
| 15             | M3 Threaded insert                  | 6STD15PAZ99S10X |
| 25             | M3 Threaded insert                  | 6STD25PAZ99S10X |
| 37             | M3 Threaded insert                  | 6STD37PAZ99S10X |
| 09             | 4-40 UNC Threaded insert            | 6STD09PAZ99S20X |
| 15             | 4-40 UNC Threaded insert            | 6STD15PAZ99S20X |
| 25             | 4-40 UNC Threaded insert            | 6STD25PAZ99S20X |
| 37             | 4-40 UNC Threaded insert            | 6STD37PAZ99S20X |
| 09             | PCB clip / M3 Threaded insert       | 6STD09PAZ99S30X |
| 15             | PCB clip / M3 Threaded insert       | 6STD15PAZ99S30X |
| 25             | PCB clip / M3 Threaded insert       | 6STD25PAZ99S30X |
| 37             | PCB clip / M3 Threaded insert       | 6STD37PAZ99S30X |
| 09             | PCB clip / 4-40 UNC Threaded insert | 6STD09PAZ99S40X |
| 15             | PCB clip / 4-40 UNC Threaded insert | 6STD15PAZ99S40X |
| 25             | PCB clip / 4-40 UNC Threaded insert | 6STD25PAZ99S40X |
| 37             | PCB clip / 4-40 UNC Threaded insert | 6STD37PAZ99S40X |

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

# IP67 D-SUB STANDARD

Solder cup – Precision machined contacts – Front mounting – For wire size AWG 20

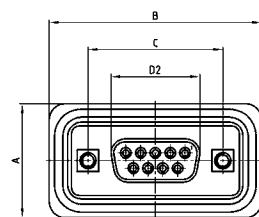


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

## DESCRIPTION

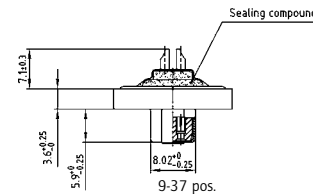
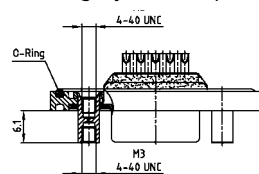
- Suitable for wire size **AWG 20**
- Mounting styles:
  - with M3 or 4-40 UNC front spacer
  - with M3 or 4-40 UNC front spacer and rear mounting stud
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame  
(Black plastic frame on request)

## SOCKET CONNECTOR

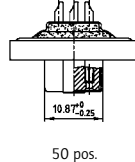
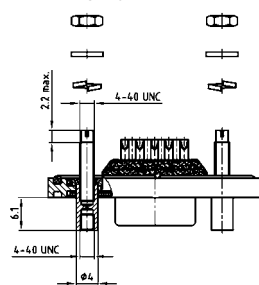


| No. of pos. | A +0.3 | B +0.3 | C                | D2 -0.25 |
|-------------|--------|--------|------------------|----------|
| 09          | 21.10  | 39.40  | 25.00 $\pm 0.12$ | 16.46    |
| 15          | 21.10  | 47.70  | 33.30 $\pm 0.15$ | 24.79    |
| 25          | 21.10  | 61.40  | 47.04 $\pm 0.13$ | 38.50    |
| 37          | 21.10  | 77.90  | 63.50 $\pm 0.13$ | 54.96    |
| 50          | 23.90  | 75.50  | 61.10 $\pm 0.14$ | 52.55    |

Mounting style: Front spacer

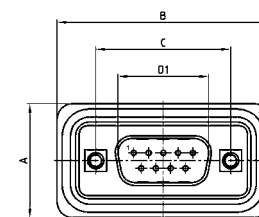


Mounting style: Front spacer and rear mounting stud



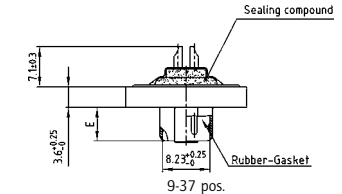
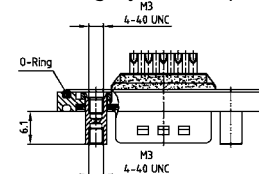
50 pos.

## PLUG CONNECTOR

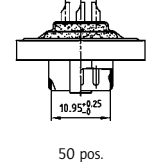
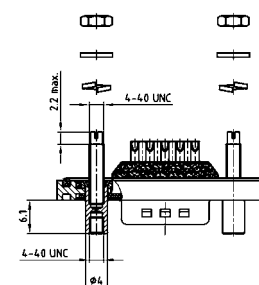


| No. of pos. | A +0.3 | B +0.3 | C                | D1 -0.25 | E -0.30 |
|-------------|--------|--------|------------------|----------|---------|
| 9           | 21.10  | 39.40  | 25.00 $\pm 0.12$ | 16.79    | 5.82    |
| 15          | 21.10  | 47.70  | 33.30 $\pm 0.15$ | 25.12    | 5.82    |
| 25          | 21.10  | 61.40  | 47.04 $\pm 0.13$ | 38.84    | 5.69    |
| 37          | 21.10  | 77.90  | 63.50 $\pm 0.13$ | 55.30    | 5.69    |
| 50          | 23.90  | 75.50  | 61.10 $\pm 0.14$ | 52.68    | 5.69    |

Mounting style: Front spacer



Mounting style: Front spacer and rear mounting stud



50 pos.

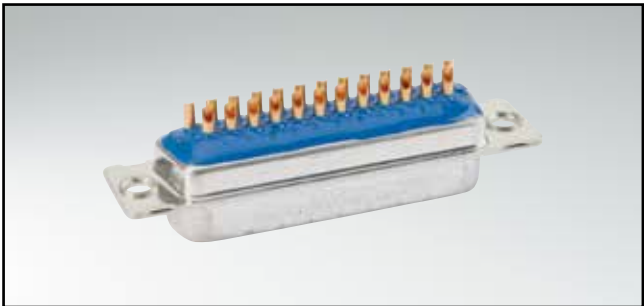
## ORDER DATA

| SOCKET CONNECTOR |                                              |                 |
|------------------|----------------------------------------------|-----------------|
| No. of pos.      | Mounting style                               | Part Number     |
| 09               | M3 Front spacer                              | 6STD09SAM99B40X |
| 15               | M3 Front spacer                              | 6STD15SAM99B40X |
| 25               | M3 Front spacer                              | 6STD25SAM99B40X |
| 37               | M3 Front spacer                              | 6STD37SAM99B40X |
| 50               | M3 Front spacer                              | 6STD50SAM99B40X |
| 09               | 4-40 UNC Front spacer                        | 6STD09SAM99B50X |
| 15               | 4-40 UNC Front spacer                        | 6STD15SAM99B50X |
| 25               | 4-40 UNC Front spacer                        | 6STD25SAM99B50X |
| 37               | 4-40 UNC Front spacer                        | 6STD37SAM99B50X |
| 50               | 4-40 UNC Front spacer                        | 6STD50SAM99B50X |
| 09               | 4-40 UNC Front spacer and rear mounting stud | 6STD09SAM99B70X |
| 15               | 4-40 UNC Front spacer and rear mounting stud | 6STD15SAM99B70X |
| 25               | 4-40 UNC Front spacer and rear mounting stud | 6STD25SAM99B70X |
| 37               | 4-40 UNC Front spacer and rear mounting stud | 6STD37SAM99B70X |
| 50               | 4-40 UNC Front spacer and rear mounting stud | 6STD50SAM99B70X |

| PLUG CONNECTOR |                                              |                 |
|----------------|----------------------------------------------|-----------------|
| No. of pos.    | Mounting style                               | Part Number     |
| 09             | M3 Front spacer                              | 6STD09PAM99B40X |
| 15             | M3 Front spacer                              | 6STD15PAM99B40X |
| 25             | M3 Front spacer                              | 6STD25PAM99B40X |
| 37             | M3 Front spacer                              | 6STD37PAM99B40X |
| 50             | M3 Front spacer                              | 6STD50PAM99B40X |
| 09             | 4-40 UNC Front spacer                        | 6STD09PAM99B50X |
| 15             | 4-40 UNC Front spacer                        | 6STD15PAM99B50X |
| 25             | 4-40 UNC Front spacer                        | 6STD25PAM99B50X |
| 37             | 4-40 UNC Front spacer                        | 6STD37PAM99B50X |
| 50             | 4-40 UNC Front spacer                        | 6STD50PAM99B50X |
| 09             | 4-40 UNC Front spacer and rear mounting stud | 6STD09PAM99B70X |
| 15             | 4-40 UNC Front spacer and rear mounting stud | 6STD15PAM99B70X |
| 25             | 4-40 UNC Front spacer and rear mounting stud | 6STD25PAM99B70X |
| 37             | 4-40 UNC Front spacer and rear mounting stud | 6STD37PAM99B70X |
| 50             | 4-40 UNC Front spacer and rear mounting stud | 6STD50PAM99B70X |

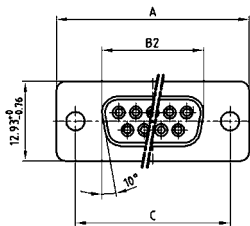
IP67 D-SUB STANDARD

Solder cup – Precision machined contacts – For hood Assembly – For wire size AWG 20

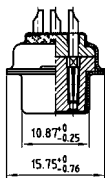
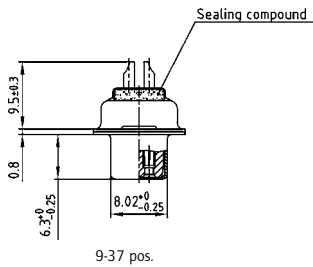
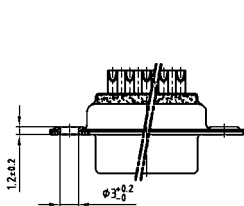


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

SOCKET CONNECTOR



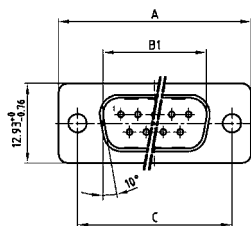
| No. of pos. | A -0.76 | B2 -0.25 | C                                       |
|-------------|---------|----------|-----------------------------------------|
| 09          | 31.19   | 16.46    | 25.00 <sup>+0.12</sup> <sub>-0.13</sub> |
| 15          | 39.52   | 24.79    | 33.30 <sup>+0.15</sup> <sub>-0.10</sub> |
| 25          | 53.42   | 38.50    | 47.04 <sup>+0.13</sup> <sub>-0.10</sub> |
| 37          | 69.70   | 54.96    | 63.50 <sup>+0.13</sup> <sub>-0.10</sub> |
| 50          | 67.31   | 52.55    | 61.10 <sup>+0.14</sup> <sub>-0.11</sub> |



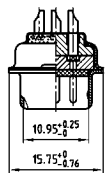
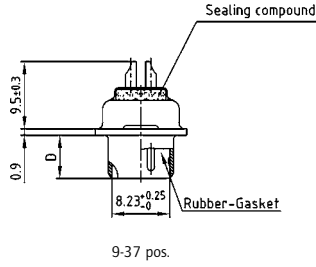
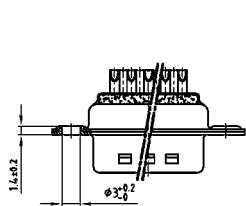
DESCRIPTION

- Suitable for wire size AWG 20
- Mounting style:  
with through-hole, Ø .118"/3.0 mm
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)

PLUG CONNECTOR



| No. of pos. | A     | B1 +0.25 | C                                       | D -0.30 |
|-------------|-------|----------|-----------------------------------------|---------|
| 09          | 31.19 | 16.79    | 25.00 <sup>+0.12</sup> <sub>-0.13</sub> | 6.12    |
| 15          | 39.52 | 25.12    | 33.30 <sup>+0.15</sup> <sub>-0.10</sub> | 6.12    |
| 25          | 53.42 | 38.84    | 47.04 <sup>+0.13</sup> <sub>-0.10</sub> | 5.99    |
| 37          | 69.70 | 55.30    | 63.50 <sup>+0.13</sup> <sub>-0.10</sub> | 5.99    |
| 50          | 67.31 | 52.68    | 61.10 <sup>+0.14</sup> <sub>-0.11</sub> | 5.99    |



ORDER DATA

| SOCKET CONNECTOR |                |                 |
|------------------|----------------|-----------------|
| No. of pos.      | Mounting style | Part Number     |
| 09               | Through-hole   | 4STD09SAM99A10X |
| 15               | Through-hole   | 4STD15SAM99A10X |
| 25               | Through-hole   | 4STD25SAM99A10X |
| 37               | Through-hole   | 4STD37SAM99A10X |
| 50               | Through-hole   | 4STD50SAM99A10X |

| PLUG CONNECTOR |                |                 |
|----------------|----------------|-----------------|
| No. of pos.    | Mounting style | Part Number     |
| 09             | Through-hole   | 4STD09PAM99A10X |
| 15             | Through-hole   | 4STD15PAM99A10X |
| 25             | Through-hole   | 4STD25PAM99A10X |
| 37             | Through-hole   | 4STD37PAM99A10X |
| 50             | Through-hole   | 4STD50PAM99A10X |

# IP67 D-SUB High DENSITY

Solder cup – Precision machined contacts – For wire size AWG 22

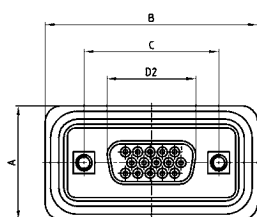


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

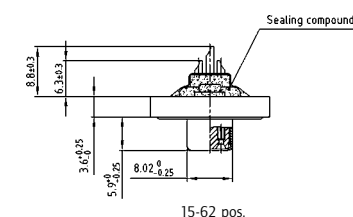
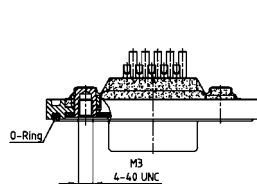
## DESCRIPTION

- Suitable for wire size **AWG 22**
- Mounting style:  
with 4-40 UNC or M3 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame  
(Black plastic frame on request)

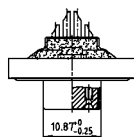
## SOCKET CONNECTOR



| No. of pos. | A +0.3 | B +0.3 | C                                                            | D2 -0.25 | D1 |
|-------------|--------|--------|--------------------------------------------------------------|----------|----|
| 15          | 21.10  | 39.40  | 25.00 $\begin{smallmatrix} +0.12 \\ -0.13 \end{smallmatrix}$ | 16.46    |    |
| 26          | 21.10  | 47.70  | 33.30 $\begin{smallmatrix} +0.15 \\ -0.10 \end{smallmatrix}$ | 24.79    |    |
| 44          | 21.10  | 61.40  | 47.04 $\pm 0.13$                                             | 38.50    |    |
| 62          | 21.10  | 77.90  | 63.50 $\pm 0.13$                                             | 54.96    |    |
| 78          | 23.90  | 75.50  | 61.10 $\begin{smallmatrix} +0.14 \\ -0.11 \end{smallmatrix}$ | 52.55    |    |

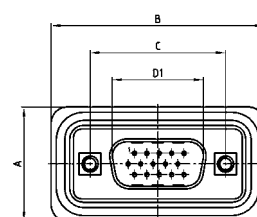


15-62 pos.

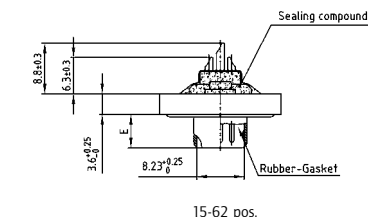
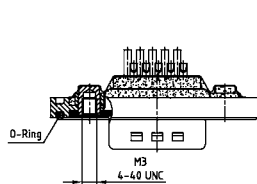


78 pos.

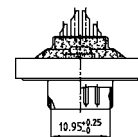
## PLUG CONNECTOR



| No. of pos. | A +0.3 | B +0.3 | C                                                            | D1 -0.25 | E -0.30 |
|-------------|--------|--------|--------------------------------------------------------------|----------|---------|
| 15          | 21.10  | 39.40  | 25.00 $\begin{smallmatrix} +0.12 \\ -0.13 \end{smallmatrix}$ | 16.79    | 5.82    |
| 26          | 21.10  | 47.70  | 33.30 $\begin{smallmatrix} +0.15 \\ -0.10 \end{smallmatrix}$ | 25.12    | 5.82    |
| 44          | 21.10  | 61.40  | 47.04 $\pm 0.13$                                             | 38.84    | 5.69    |
| 62          | 21.10  | 77.90  | 63.50 $\pm 0.13$                                             | 55.30    | 5.69    |
| 78          | 23.90  | 75.50  | 61.10 $\begin{smallmatrix} +0.14 \\ -0.11 \end{smallmatrix}$ | 52.68    | 5.69    |



15-62 pos.



78 pos.

## ORDER DATA

### SOCKET CONNECTOR

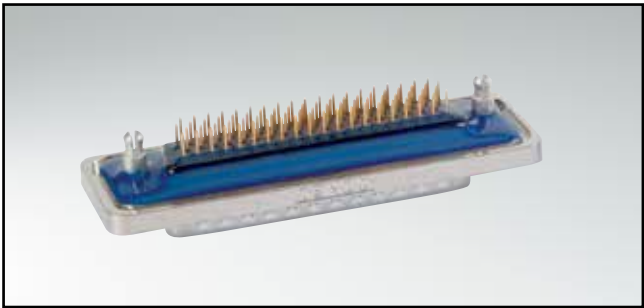
| No. of pos. | Mounting style           | Part Number     |
|-------------|--------------------------|-----------------|
| 15          | M3 Threaded insert       | 6HDD15SAM99B20X |
| 26          | M3 Threaded insert       | 6HDD26SAM99B20X |
| 44          | M3 Threaded insert       | 6HDD44SAM99B20X |
| 62          | M3 Threaded insert       | 6HDD62SAM99B20X |
| 78          | M3 Threaded insert       | 6HDD78SAM99B20X |
| 15          | 4-40 UNC Threaded insert | 6HDD15SAM99B30X |
| 26          | 4-40 UNC Threaded insert | 6HDD26SAM99B30X |
| 44          | 4-40 UNC Threaded insert | 6HDD44SAM99B30X |
| 62          | 4-40 UNC Threaded insert | 6HDD62SAM99B30X |
| 78          | 4-40 UNC Threaded insert | 6HDD78SAM99B30X |

### PLUG CONNECTOR

| No. of pos. | Mounting style           | Part Number     |
|-------------|--------------------------|-----------------|
| 15          | M3 Threaded insert       | 6HDD15PAM99B20X |
| 26          | M3 Threaded insert       | 6HDD26PAM99B20X |
| 44          | M3 Threaded insert       | 6HDD44PAM99B20X |
| 62          | M3 Threaded insert       | 6HDD62PAM99B20X |
| 78          | M3 Threaded insert       | 6HDD78PAM99B20X |
| 15          | 4-40 UNC Threaded insert | 6HDD15PAM99B30X |
| 26          | 4-40 UNC Threaded insert | 6HDD26PAM99B30X |
| 44          | 4-40 UNC Threaded insert | 6HDD44PAM99B30X |
| 62          | 4-40 UNC Threaded insert | 6HDD62PAM99B30X |
| 78          | 4-40 UNC Threaded insert | 6HDD78PAM99B30X |

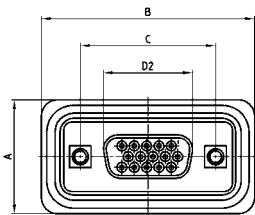
IP67 D-SUB High DENSITY

Solder pin – Straight – Precision machined contacts



RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

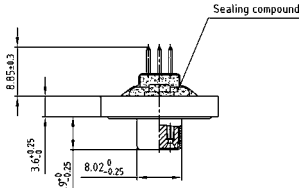
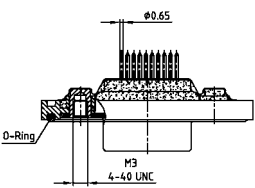
SOCKET CONNECTOR



| No. of pos. | A +0.3 | B +0.3 | C                                         | D2 -0.25 |
|-------------|--------|--------|-------------------------------------------|----------|
| 15          | 21.10  | 39.40  | 25.00 <sup>+0.12</sup> / <sub>-0.13</sub> | 16.46    |
| 26          | 21.10  | 47.70  | 33.30 <sup>+0.15</sup> / <sub>-0.10</sub> | 24.79    |
| 44          | 21.10  | 61.40  | 47.04 <sup>+0.13</sup>                    | 38.50    |
| 62          | 21.10  | 77.90  | 63.50 <sup>+0.13</sup>                    | 54.96    |
| 78          | 23.90  | 75.50  | 61.10 <sup>+0.14</sup> / <sub>-0.11</sub> | 52.55    |

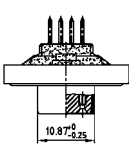
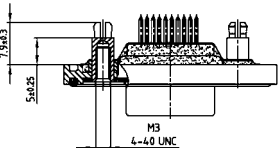
PCB-Layout: Kat1kGDA / Kat1iT9A

Mounting style: Threaded insert



15-62 pos.

Mounting style: Threaded rear spacer with PCB clip

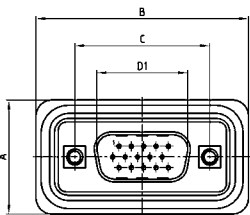


78 pos.

DESCRIPTION

- Mounting styles:
  - with 4-40 UNC or M3 threaded insert including hex locking bolt
  - with M3 or 4-40 UNC threaded rear spacer and PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

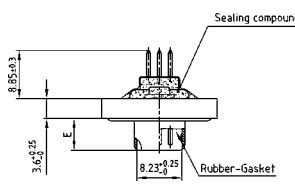
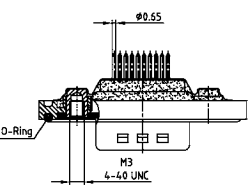
PLUG CONNECTOR



| No. of pos. | A +0.3 | B +0.3 | C                                         | D1 -0.25 | E -0.30 |
|-------------|--------|--------|-------------------------------------------|----------|---------|
| 15          | 21.10  | 39.40  | 25.00 <sup>+0.12</sup> / <sub>-0.13</sub> | 16.79    | 5.82    |
| 26          | 21.10  | 47.70  | 33.30 <sup>+0.15</sup> / <sub>-0.10</sub> | 25.12    | 5.82    |
| 44          | 21.10  | 61.40  | 47.04 <sup>+0.13</sup>                    | 38.84    | 5.69    |
| 62          | 21.10  | 77.90  | 63.50 <sup>+0.13</sup>                    | 55.30    | 5.69    |
| 78          | 23.90  | 75.50  | 61.10 <sup>+0.14</sup> / <sub>-0.11</sub> | 52.68    | 5.69    |

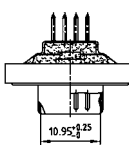
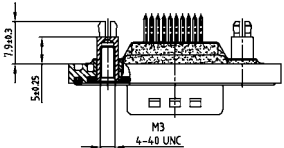
PCB-Layout: Kat1kFWA / Kat1iU0A

Mounting style: Threaded insert



15-62 pos.

Mounting style: Threaded rear spacer with PCB clip



78 pos.

ORDER DATA

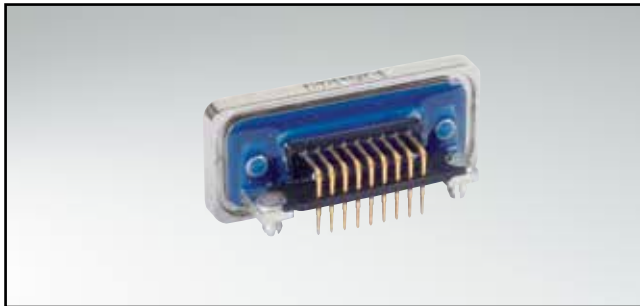
| SOCKET CONNECTOR |                                        |                 |
|------------------|----------------------------------------|-----------------|
| No. of pos.      | Mounting style                         | Part Number     |
| 15               | M3 Threaded insert                     | 6HDD15SAR99B20X |
| 26               | M3 Threaded insert                     | 6HDD26SAR99B20X |
| 44               | M3 Threaded insert                     | 6HDD44SAR99B20X |
| 62               | M3 Threaded insert                     | 6HDD62SAR99B20X |
| 78               | M3 Threaded insert                     | 6HDD78SAR99B20X |
| 15               | 4-40 UNC Threaded insert               | 6HDD15SAR99B30X |
| 26               | 4-40 UNC Threaded insert               | 6HDD26SAR99B30X |
| 44               | 4-40 UNC Threaded insert               | 6HDD44SAR99B30X |
| 62               | 4-40 UNC Threaded insert               | 6HDD62SAR99B30X |
| 78               | 4-40 UNC Threaded insert               | 6HDD78SAR99B30X |
| 15               | M3 Threaded rear spacer PCB clip       | 6HDD15SAR99E10X |
| 26               | M3 Threaded rear spacer PCB clip       | 6HDD26SAR99E10X |
| 44               | M3 Threaded rear spacer PCB clip       | 6HDD44SAR99E10X |
| 62               | M3 Threaded rear spacer PCB clip       | 6HDD62SAR99E10X |
| 78               | M3 Threaded rear spacer PCB clip       | 6HDD78SAR99E10X |
| 15               | 4-40 UNC Threaded rear spacer PCB clip | 6HDD15SAR99E20X |
| 26               | 4-40 UNC Threaded rear spacer PCB clip | 6HDD26SAR99E20X |
| 44               | 4-40 UNC Threaded rear spacer PCB clip | 6HDD44SAR99E20X |
| 62               | 4-40 UNC Threaded rear spacer PCB clip | 6HDD62SAR99E20X |
| 78               | 4-40 UNC Threaded rear spacer PCB clip | 6HDD78SAR99E20X |

| PLUG CONNECTOR |                                        |                 |
|----------------|----------------------------------------|-----------------|
| No. of pos.    | Mounting style                         | Part Number     |
| 15             | M3 Threaded insert                     | 6HDD15PAR99B20X |
| 26             | M3 Threaded insert                     | 6HDD26PAR99B20X |
| 44             | M3 Threaded insert                     | 6HDD44PAR99B20X |
| 62             | M3 Threaded insert                     | 6HDD62PAR99B20X |
| 78             | M3 Threaded insert                     | 6HDD78PAR99B20X |
| 15             | 4-40 UNC Threaded insert               | 6HDD15PAR99B30X |
| 26             | 4-40 UNC Threaded insert               | 6HDD26PAR99B30X |
| 44             | 4-40 UNC Threaded insert               | 6HDD44PAR99B30X |
| 62             | 4-40 UNC Threaded insert               | 6HDD62PAR99B30X |
| 78             | 4-40 UNC Threaded insert               | 6HDD78PAR99B30X |
| 15             | M3 Threaded rear spacer PCB clip       | 6HDD15PAR99E10X |
| 26             | M3 Threaded rear spacer PCB clip       | 6HDD26PAR99E10X |
| 44             | M3 Threaded rear spacer PCB clip       | 6HDD44PAR99E10X |
| 62             | M3 Threaded rear spacer PCB clip       | 6HDD62PAR99E10X |
| 78             | M3 Threaded rear spacer PCB clip       | 6HDD78PAR99E10X |
| 15             | 4-40 UNC Threaded rear spacer PCB clip | 6HDD15PAR99E20X |
| 26             | 4-40 UNC Threaded rear spacer PCB clip | 6HDD26PAR99E20X |
| 44             | 4-40 UNC Threaded rear spacer PCB clip | 6HDD44PAR99E20X |
| 62             | 4-40 UNC Threaded rear spacer PCB clip | 6HDD62PAR99E20X |
| 78             | 4-40 UNC Threaded rear spacer PCB clip | 6HDD78PAR99E20X |

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

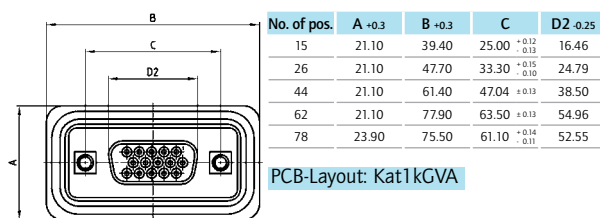
# IP67 D-SUB High Density

Solder pin – Angled – .220"/5,6 mm – Precision machined contacts – Metal Bracket

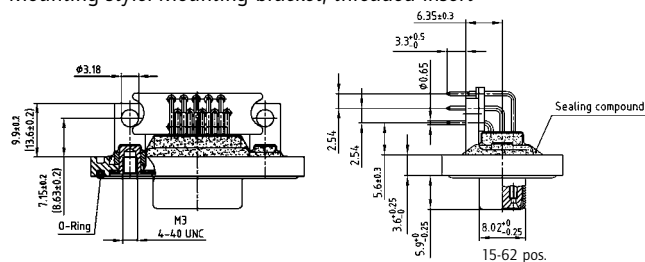


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

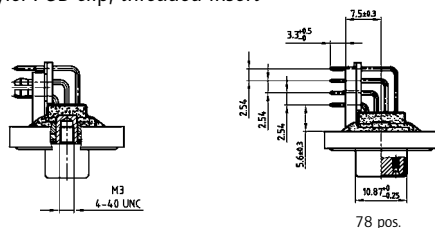
## SOCKET CONNECTOR



Mounting style: Mounting bracket, threaded insert



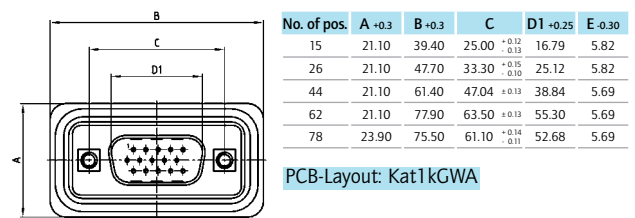
Mounting style: PCB clip, threaded insert



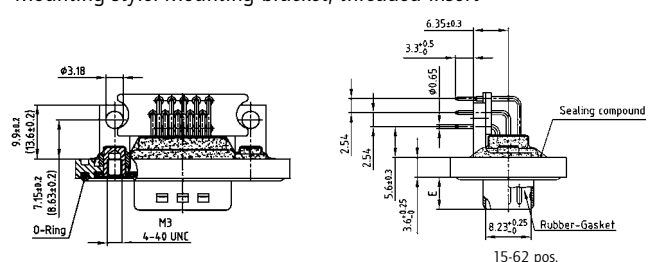
## DESCRIPTION

- Mounting styles:
  - with mounting bracket and 4-40 UNC or M3 threaded insert including hex locking bolt
  - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

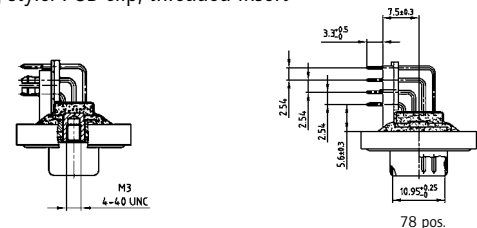
## PLUG CONNECTOR



Mounting style: Mounting bracket, threaded insert



Mounting style: PCB clip, threaded insert



## ORDER DATA

### SOCKET CONNECTOR

| No. of pos. | Mounting style                    | Part Number     |
|-------------|-----------------------------------|-----------------|
| 15          | M3 Threaded insert                | 6HDD15SAY99R10X |
| 26          | M3 Threaded insert                | 6HDD26SAY99R10X |
| 44          | M3 Threaded insert                | 6HDD44SAY99R10X |
| 62          | M3 Threaded insert                | 6HDD62SAY99R10X |
| 78          | M3 Threaded insert                | 6HDD78SAY99R10X |
| 15          | 4-40 UNC Threaded insert          | 6HDD15SAY99R20X |
| 26          | 4-40 UNC Threaded insert          | 6HDD26SAY99R20X |
| 44          | 4-40 UNC Threaded insert          | 6HDD44SAY99R20X |
| 62          | 4-40 UNC Threaded insert          | 6HDD62SAY99R20X |
| 78          | 4-40 UNC Threaded insert          | 6HDD78SAY99R20X |
| 15          | PCB clip/M3 Threaded insert       | 6HDD15SAY99R30X |
| 26          | PCB clip/M3 Threaded insert       | 6HDD26SAY99R30X |
| 44          | PCB clip/M3 Threaded insert       | 6HDD44SAY99R30X |
| 62          | PCB clip/M3 Threaded insert       | 6HDD62SAY99R30X |
| 78          | PCB clip/M3 Threaded insert       | 6HDD78SAY99R30X |
| 15          | PCB clip/4-40 UNC Threaded insert | 6HDD15SAY99R40X |
| 26          | PCB clip/4-40 UNC Threaded insert | 6HDD26SAY99R40X |
| 44          | PCB clip/4-40 UNC Threaded insert | 6HDD44SAY99R40X |
| 62          | PCB clip/4-40 UNC Threaded insert | 6HDD62SAY99R40X |
| 78          | PCB clip/4-40 UNC Threaded insert | 6HDD78SAY99R40X |

### PLUG CONNECTOR

| No. of pos. | Mounting style                    | Part Number     |
|-------------|-----------------------------------|-----------------|
| 15          | M3 Threaded insert                | 6HDD15PAY99R10X |
| 26          | M3 Threaded insert                | 6HDD26PAY99R10X |
| 44          | M3 Threaded insert                | 6HDD44PAY99R10X |
| 62          | M3 Threaded insert                | 6HDD62PAY99R10X |
| 78          | M3 Threaded insert                | 6HDD78PAY99R10X |
| 15          | 4-40 UNC Threaded insert          | 6HDD15PAY99R20X |
| 26          | 4-40 UNC Threaded insert          | 6HDD26PAY99R20X |
| 44          | 4-40 UNC Threaded insert          | 6HDD44PAY99R20X |
| 62          | 4-40 UNC Threaded insert          | 6HDD62PAY99R20X |
| 78          | 4-40 UNC Threaded insert          | 6HDD78PAY99R20X |
| 15          | PCB clip/M3 Threaded insert       | 6HDD15PAY99R30X |
| 26          | PCB clip/M3 Threaded insert       | 6HDD26PAY99R30X |
| 44          | PCB clip/M3 Threaded insert       | 6HDD44PAY99R30X |
| 62          | PCB clip/M3 Threaded insert       | 6HDD62PAY99R30X |
| 78          | PCB clip/M3 Threaded insert       | 6HDD78PAY99R30X |
| 15          | PCB clip/4-40 UNC Threaded insert | 6HDD15PAY99R40X |
| 26          | PCB clip/4-40 UNC Threaded insert | 6HDD26PAY99R40X |
| 44          | PCB clip/4-40 UNC Threaded insert | 6HDD44PAY99R40X |
| 62          | PCB clip/4-40 UNC Threaded insert | 6HDD62PAY99R40X |
| 78          | PCB clip/4-40 UNC Threaded insert | 6HDD78PAY99R40X |

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

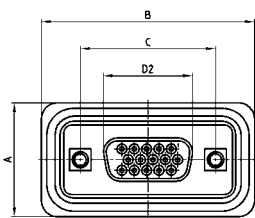
IP67 D-SUB High DENSITY

Solder cup – Precision machined contacts – Front mounting – For wire size AWG 22



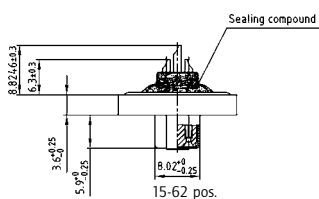
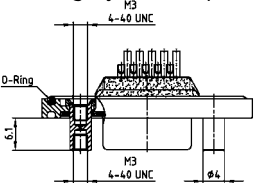
RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

SOCKET CONNECTOR

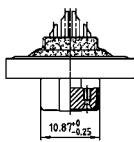
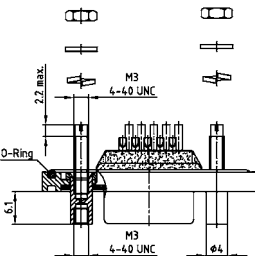


| No. of pos. | A +0.3 | B +0.3 | C                                       | D2 -0.25 |
|-------------|--------|--------|-----------------------------------------|----------|
| 15          | 21.10  | 39.40  | 25.00 <sup>+0.12</sup> <sub>-0.13</sub> | 16.46    |
| 26          | 21.10  | 47.70  | 33.30 <sup>+0.15</sup> <sub>-0.10</sub> | 24.79    |
| 44          | 21.10  | 61.40  | 47.04 <sup>+0.13</sup> <sub>-0.13</sub> | 38.50    |
| 62          | 21.10  | 77.90  | 63.50 <sup>+0.13</sup> <sub>-0.13</sub> | 54.96    |
| 78          | 23.90  | 75.50  | 61.10 <sup>+0.14</sup> <sub>-0.11</sub> | 52.55    |

Mounting style: Front spacer



Mounting style: Front spacer and rear mounting stud

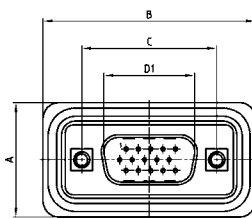


78 pos.

DESCRIPTION

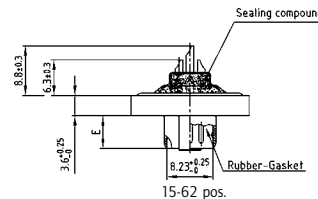
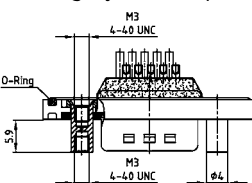
- Suitable for wire size **AWG 22**
- Mounting styles:
  - with M3 or 4-40 UNC front spacer
  - with M3 or 4-40 UNC front spacer and rear mounting stud
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

PLUG CONNECTOR

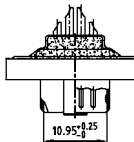
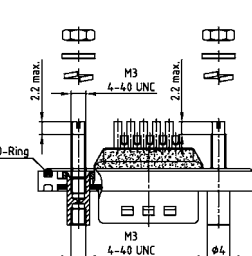


| No. of pos. | A +0.3 | B +0.3 | C                                       | D1 +0.25 | E -0.30 |
|-------------|--------|--------|-----------------------------------------|----------|---------|
| 15          | 21.10  | 39.40  | 25.00 <sup>+0.12</sup> <sub>-0.13</sub> | 16.79    | 5.82    |
| 26          | 21.10  | 47.70  | 33.30 <sup>+0.15</sup> <sub>-0.10</sub> | 25.12    | 5.82    |
| 44          | 21.10  | 61.40  | 47.04 <sup>+0.13</sup> <sub>-0.13</sub> | 38.84    | 5.69    |
| 62          | 21.10  | 77.90  | 63.50 <sup>+0.13</sup> <sub>-0.13</sub> | 55.30    | 5.69    |
| 78          | 23.90  | 75.50  | 61.10 <sup>+0.14</sup> <sub>-0.11</sub> | 52.68    | 5.69    |

Mounting style: Front spacer



Mounting style: Front spacer and rear mounting stud



78 pos.

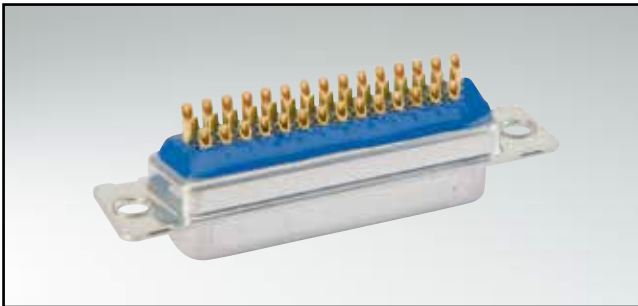
ORDER DATA

| SOCKET CONNECTOR |                                              |                 |
|------------------|----------------------------------------------|-----------------|
| No. of pos.      | Mounting style                               | Part Number     |
| 15               | M3 Front spacer                              | 6HDD15SAM99B40X |
| 26               | M3 Front spacer                              | 6HDD26SAM99B40X |
| 44               | M3 Front spacer                              | 6HDD44SAM99B40X |
| 62               | M3 Front spacer                              | 6HDD62SAM99B40X |
| 78               | M3 Front spacer                              | 6HDD78SAM99B40X |
| 15               | 4-40 UNC Front spacer                        | 6HDD15SAM99B50X |
| 26               | 4-40 UNC Front spacer                        | 6HDD26SAM99B50X |
| 44               | 4-40 UNC Front spacer                        | 6HDD44SAM99B50X |
| 62               | 4-40 UNC Front spacer                        | 6HDD62SAM99B50X |
| 78               | 4-40 UNC Front spacer                        | 6HDD78SAM99B50X |
| 15               | 4-40 UNC Front spacer and rear mounting stud | 6HDD15SAM99B70X |
| 26               | 4-40 UNC Front spacer and rear mounting stud | 6HDD26SAM99B70X |
| 44               | 4-40 UNC Front spacer and rear mounting stud | 6HDD44SAM99B70X |
| 62               | 4-40 UNC Front spacer and rear mounting stud | 6HDD62SAM99B70X |
| 78               | 4-40 UNC Front spacer and rear mounting stud | 6HDD78SAM99B70X |

| PLUG CONNECTOR |                                              |                 |
|----------------|----------------------------------------------|-----------------|
| No. of pos.    | Mounting style                               | Part Number     |
| 15             | M3 Front spacer                              | 6HDD15PAM99B40X |
| 26             | M3 Front spacer                              | 6HDD26PAM99B40X |
| 44             | M3 Front spacer                              | 6HDD44PAM99B40X |
| 62             | M3 Front spacer                              | 6HDD62PAM99B40X |
| 78             | M3 Front spacer                              | 6HDD78PAM99B40X |
| 15             | 4-40 UNC Front spacer                        | 6HDD15PAM99B50X |
| 26             | 4-40 UNC Front spacer                        | 6HDD26PAM99B50X |
| 44             | 4-40 UNC Front spacer                        | 6HDD44PAM99B50X |
| 62             | 4-40 UNC Front spacer                        | 6HDD62PAM99B50X |
| 78             | 4-40 UNC Front spacer                        | 6HDD78PAM99B50X |
| 15             | 4-40 UNC Front spacer and rear mounting stud | 6HDD15PAM99B70X |
| 26             | 4-40 UNC Front spacer and rear mounting stud | 6HDD26PAM99B70X |
| 44             | 4-40 UNC Front spacer and rear mounting stud | 6HDD44PAM99B70X |
| 62             | 4-40 UNC Front spacer and rear mounting stud | 6HDD62PAM99B70X |
| 78             | 4-40 UNC Front spacer and rear mounting stud | 6HDD78PAM99B70X |

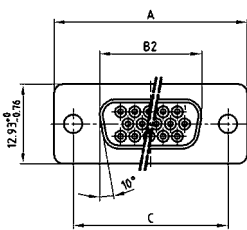
# IP67 D-SUB High DENSITY

Solder cup – Precision machined contacts – For hood Assembly – For wire size AWG 22

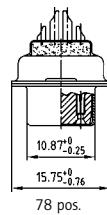
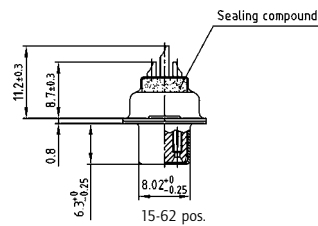
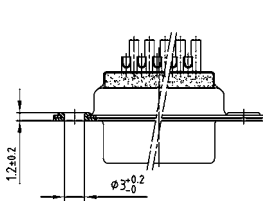


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

## SOCKET CONNECTOR



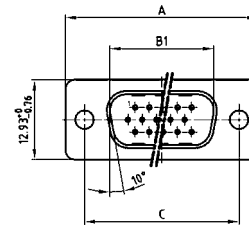
| No. of pos. | A -0.76 | B2 -0.25 | C                                                            |
|-------------|---------|----------|--------------------------------------------------------------|
| 15          | 31.19   | 16.46    | 25.00 $\begin{smallmatrix} +0.12 \\ -0.13 \end{smallmatrix}$ |
| 26          | 39.52   | 24.79    | 33.30 $\begin{smallmatrix} +0.15 \\ -0.10 \end{smallmatrix}$ |
| 44          | 53.42   | 38.50    | 47.04 $\pm 0.13$                                             |
| 62          | 69.70   | 54.96    | 63.50 $\pm 0.13$                                             |
| 78          | 67.31   | 52.55    | 61.10 $\begin{smallmatrix} +0.14 \\ -0.11 \end{smallmatrix}$ |



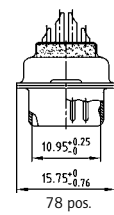
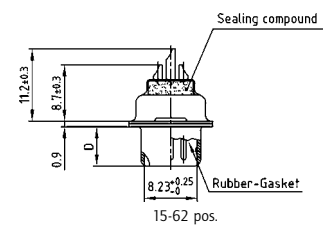
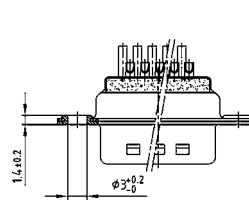
## DESCRIPTION

- Suitable for wire size AWG 22
- Mounting style:  
with through-hole, Ø .118"/3.0 mm
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)

## PLUG CONNECTOR



| No. of pos. | A -0.76 | B1 -0.25 | C                                                            | D -0.30 |
|-------------|---------|----------|--------------------------------------------------------------|---------|
| 15          | 31.19   | 16.79    | 25.00 $\begin{smallmatrix} +0.12 \\ -0.13 \end{smallmatrix}$ | 6.12    |
| 26          | 39.52   | 25.12    | 33.30 $\begin{smallmatrix} +0.15 \\ -0.10 \end{smallmatrix}$ | 6.12    |
| 44          | 53.42   | 38.84    | 47.04 $\pm 0.13$                                             | 5.99    |
| 62          | 69.70   | 55.30    | 63.50 $\pm 0.13$                                             | 5.99    |
| 78          | 67.31   | 62.68    | 61.10 $\begin{smallmatrix} +0.14 \\ -0.11 \end{smallmatrix}$ | 5.99    |



## ORDER DATA

### SOCKET CONNECTOR

| No. of pos. | Mounting style | Part Number     |
|-------------|----------------|-----------------|
| 15          | Through-hole   | 4HDD15SAM99A10X |
| 26          | Through-hole   | 4HDD26SAM99A10X |
| 44          | Through-hole   | 4HDD44SAM99A10X |
| 62          | Through-hole   | 4HDD62SAM99A10X |
| 78          | Through-hole   | 4HDD78SAM99A10X |

### PLUG CONNECTOR

| No. of pos. | Mounting style | Part Number     |
|-------------|----------------|-----------------|
| 15          | Through-hole   | 4HDD15PAM99A10X |
| 26          | Through-hole   | 4HDD26PAM99A10X |
| 44          | Through-hole   | 4HDD44PAM99A10X |
| 62          | Through-hole   | 4HDD62PAM99A10X |
| 78          | Through-hole   | 4HDD78PAM99A10X |

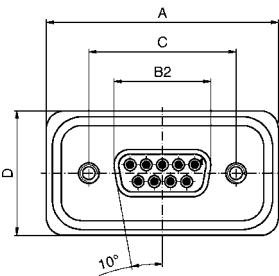
# IP67 D-SUB STANDARD SOLID BODY

Solder cup – Precision machined contacts – For wire size AWG 20

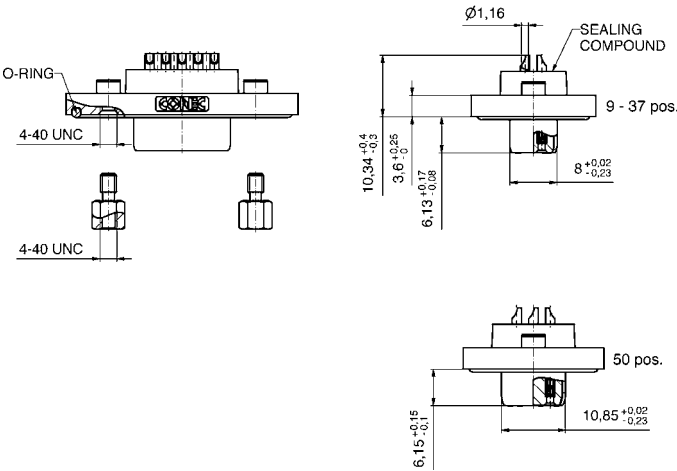


RoHS compliant - UL listed, File No. E202784

## SOCKET CONNECTOR



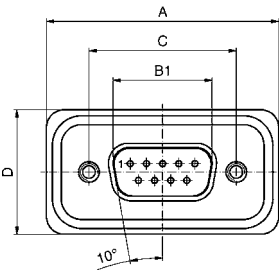
| No. of pos. | A                                       | B2                                      | C                                       | D                                     |
|-------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|
| 09          | 39.40 <sup>+0.30</sup> <sub>-0.00</sub> | 16.46 <sup>+0.00</sup> <sub>-0.25</sub> | 25.00 <sup>+0.12</sup> <sub>-0.13</sub> | 21.10 <sup>+0.3</sup> <sub>-0</sub>   |
| 15          | 47.70 <sup>+0.30</sup> <sub>-0.00</sub> | 24.79 <sup>+0.13</sup> <sub>-0.12</sub> | 33.32 <sup>+0.13</sup> <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> <sub>-0</sub>   |
| 25          | 61.40 <sup>+0.30</sup> <sub>-0.00</sub> | 38.50 <sup>+0.13</sup> <sub>-0.12</sub> | 47.04 <sup>+0.13</sup> <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> <sub>-0</sub>   |
| 37          | 78.00 <sup>+0.30</sup> <sub>-0.00</sub> | 54.96 <sup>+0.13</sup> <sub>-0.12</sub> | 63.50 <sup>+0.13</sup> <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> <sub>-0</sub>   |
| 50          | 75.60 <sup>+0.30</sup> <sub>-0.10</sub> | 52.55 <sup>+0.14</sup> <sub>-0.11</sub> | 61.10 <sup>+0.14</sup> <sub>-0.11</sub> | 23.90 <sup>+0.3</sup> <sub>-0.1</sub> |



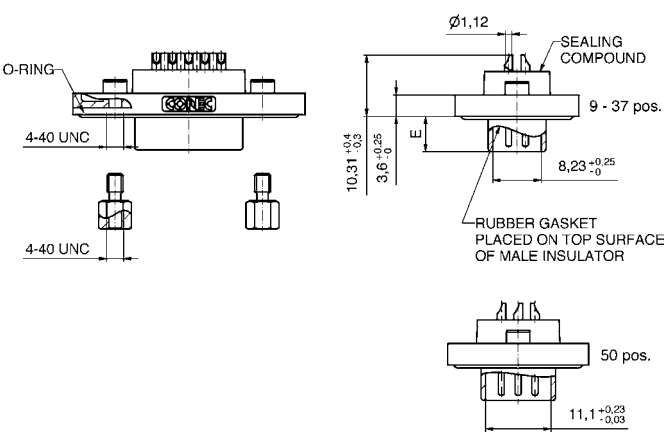
## DESCRIPTION

- Suitable for wire size **AWG 20**
- Mounting style:  
4-40 UNC threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

## PLUG CONNECTOR



| No. of pos. | A                                      | B1                                      | C                                       | D                                    | E                                      |
|-------------|----------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------------|----------------------------------------|
| 09          | 39.4 <sup>+0.30</sup> <sub>-0.00</sub> | 16.81 <sup>+0.23</sup> <sub>-0.00</sub> | 25.00 <sup>+0.12</sup> <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> <sub>-0</sub>   | 6.00 <sup>+0.12</sup> <sub>-0.18</sub> |
| 15          | 47.7 <sup>+0.30</sup> <sub>-0.00</sub> | 25.14 <sup>+0.22</sup> <sub>-0.02</sub> | 33.32 <sup>+0.12</sup> <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> <sub>-0</sub>   | 6.00 <sup>+0.12</sup> <sub>-0.18</sub> |
| 25          | 61.4 <sup>+0.30</sup> <sub>-0.00</sub> | 38.86 <sup>+0.23</sup> <sub>-0.02</sub> | 47.04 <sup>+0.12</sup> <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> <sub>-0</sub>   | 5.99 <sup>+0</sup> <sub>-0.3</sub>     |
| 37          | 78.0 <sup>+0.30</sup> <sub>-0.01</sub> | 55.32 <sup>+0.23</sup> <sub>-0.02</sub> | 63.50 <sup>+0.12</sup> <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> <sub>-0</sub>   | 5.99 <sup>+0</sup> <sub>-0.3</sub>     |
| 50          | 75.6 <sup>+0.30</sup> <sub>-0.10</sub> | 52.80 <sup>+0.13</sup> <sub>-0.12</sub> | 61.10 <sup>+0.14</sup> <sub>-0.11</sub> | 23.9 <sup>+0.3</sup> <sub>-0.1</sub> | 5.99 <sup>+0</sup> <sub>-0.3</sub>     |



## ORDER DATA

| SOCKET CONNECTOR |                         |             |
|------------------|-------------------------|-------------|
| No. of pos.      | Mounting style 4-40 UNC | Part Number |
| 09               | Threaded insert         | 15-000613   |
| 15               | Threaded insert         | 15-000623   |
| 25               | Threaded insert         | 15-000633   |
| 37               | Threaded insert         | 15-000643   |
| 50               | Threaded insert         | 15-002103   |

| PLUG CONNECTOR |                         |             |
|----------------|-------------------------|-------------|
| No. of pos.    | Mounting style 4-40 UNC | Part Number |
| 09             | Threaded insert         | 15-000573   |
| 15             | Threaded insert         | 15-000583   |
| 25             | Threaded insert         | 15-000593   |
| 37             | Threaded insert         | 15-000603   |
| 50             | Threaded insert         | 15-002093   |

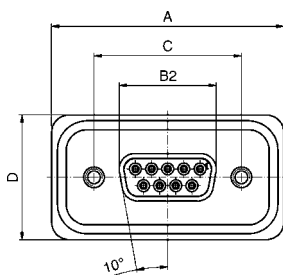
# IP67 D-SUB STANDARD SOLID BODY

Solder pin – Straight – Precision machined contacts



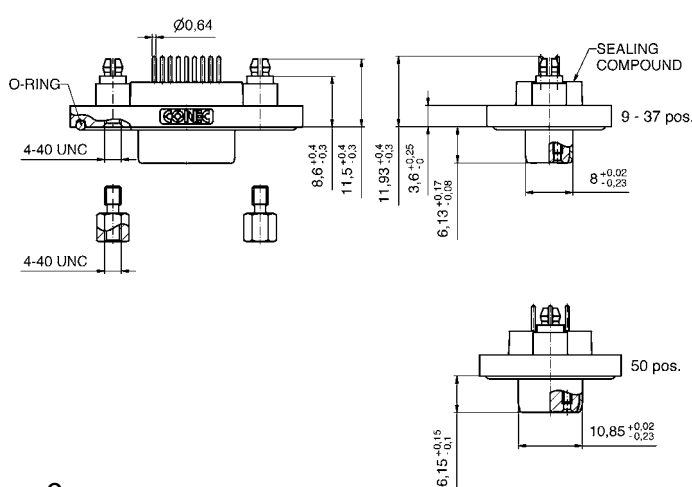
RoHS compliant - UL listed, File No. E202784

## SOCKET CONNECTOR



| No. of pos. | A                                         | B2 <sup>+0</sup> / <sub>-0.25</sub> | C                                         | D                                       |
|-------------|-------------------------------------------|-------------------------------------|-------------------------------------------|-----------------------------------------|
| 09          | 39.40 <sup>+0.30</sup> / <sub>-0.00</sub> | 16.46                               | 25.00 <sup>+0.12</sup> / <sub>-0.13</sub> | 21.10 <sup>+0.3</sup> / <sub>-0</sub>   |
| 15          | 47.70 <sup>+0.30</sup> / <sub>-0.00</sub> | 24.79                               | 33.32 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> / <sub>-0</sub>   |
| 25          | 61.40 <sup>+0.30</sup> / <sub>-0.00</sub> | 38.50                               | 47.04 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> / <sub>-0</sub>   |
| 37          | 78.00 <sup>+0.30</sup> / <sub>-0.00</sub> | 54.96                               | 63.50 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> / <sub>-0</sub>   |
| 50          | 75.60 <sup>+0.30</sup> / <sub>-0.10</sub> | 52.55                               | 61.10 <sup>+0.14</sup> / <sub>-0.11</sub> | 23.90 <sup>+0.3</sup> / <sub>-0.1</sub> |

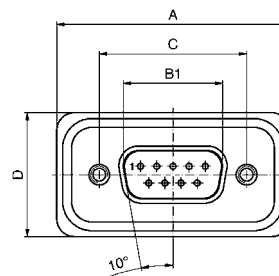
PCB-Layout: Kat1kFUA



## DESCRIPTION

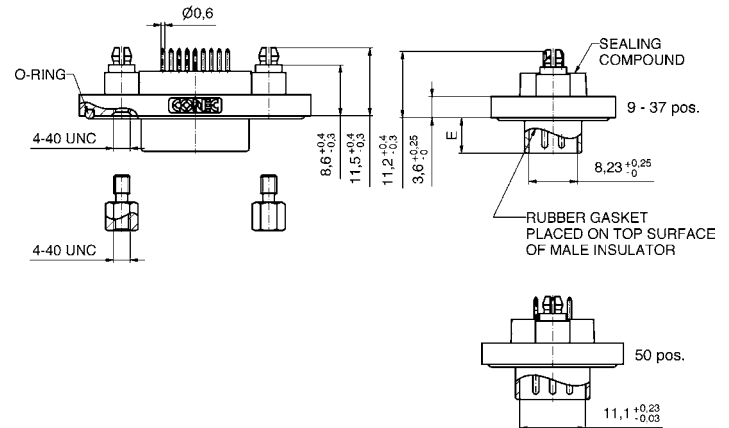
- Mounting style:  
4-40 UNC threaded rear spacer with PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

## PLUG CONNECTOR



| No. of pos. | A                                        | B1                                        | C                                         | D                                      | E                                        |
|-------------|------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------|------------------------------------------|
| 09          | 39.4 <sup>+0.30</sup> / <sub>-0.00</sub> | 16.81 <sup>+0.23</sup> / <sub>-0.02</sub> | 25.00 <sup>+0.12</sup> / <sub>-0.13</sub> | 21.1 <sup>+0.3</sup> / <sub>-0</sub>   | 6.00 <sup>+0.12</sup> / <sub>-0.18</sub> |
| 15          | 47.7 <sup>+0.30</sup> / <sub>-0.00</sub> | 25.14 <sup>+0.23</sup> / <sub>-0.02</sub> | 33.32 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> / <sub>-0</sub>   | 6.00 <sup>+0.12</sup> / <sub>-0.18</sub> |
| 25          | 61.4 <sup>+0.30</sup> / <sub>-0.00</sub> | 38.86 <sup>+0.23</sup> / <sub>-0.02</sub> | 47.04 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> / <sub>-0</sub>   | 5.99 <sup>+0</sup> / <sub>-0.3</sub>     |
| 37          | 78.0 <sup>+0.30</sup> / <sub>-0.05</sub> | 55.32 <sup>+0.23</sup> / <sub>-0.02</sub> | 63.50 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> / <sub>-0</sub>   | 5.99 <sup>+0</sup> / <sub>-0.3</sub>     |
| 50          | 75.6 <sup>+0.30</sup> / <sub>-0.10</sub> | 52.80 <sup>+0.13</sup> / <sub>-0.12</sub> | 61.10 <sup>+0.14</sup> / <sub>-0.11</sub> | 23.9 <sup>+0.3</sup> / <sub>-0.1</sub> | 5.99 <sup>+0</sup> / <sub>-0.3</sub>     |

PCB-Layout: Kat1kFUA



## ORDER DATA

### SOCKET CONNECTOR

| No. of pos. | Mounting style 4-40 UNC       | Part Number |
|-------------|-------------------------------|-------------|
| 09          | Threaded rear spacer PCB clip | 15-000453   |
| 15          | Threaded rear spacer PCB clip | 15-000463   |
| 25          | Threaded rear spacer PCB clip | 15-000473   |
| 37          | Threaded rear spacer PCB clip | 15-000483   |
| 50          | Threaded rear spacer PCB clip | 15-002063   |

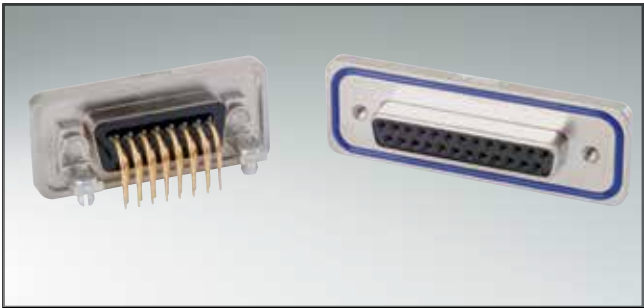
### PLUG CONNECTOR

| No. of pos. | Mounting style 4-40 UNC       | Part Number |
|-------------|-------------------------------|-------------|
| 09          | Threaded rear spacer PCB clip | 15-000413   |
| 15          | Threaded rear spacer PCB clip | 15-000423   |
| 25          | Threaded rear spacer PCB clip | 15-000433   |
| 37          | Threaded rear spacer PCB clip | 15-000443   |
| 50          | Threaded rear spacer PCB clip | 15-002053   |

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

IP67 D-SUB STANDARD SOLID BODY

Solder pin – Angled – .402" / 10.2 mm – Precision machined contacts – Metal bracket

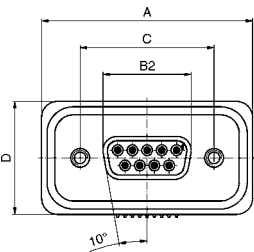


RoHS compliant - UL listed, File No. E202784

DESCRIPTION

- Mounting style:  
mounting bracket, 4-40 UNC PCB clip  
including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

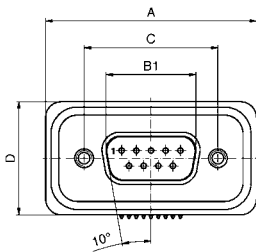
SOCKET CONNECTOR



| No. of pos. | A                | B2 $\pm 0.025$   | C                | D               |
|-------------|------------------|------------------|------------------|-----------------|
| 09          | 39.40 $\pm 0.30$ | 16.46 $\pm 0.13$ | 25.00 $\pm 0.12$ | 21.10 $\pm 0.3$ |
| 15          | 47.70 $\pm 0.30$ | 24.79 $\pm 0.12$ | 33.32 $\pm 0.12$ | 21.10 $\pm 0.3$ |
| 25          | 61.40 $\pm 0.30$ | 38.50 $\pm 0.13$ | 47.04 $\pm 0.12$ | 21.10 $\pm 0.3$ |
| 37          | 78.00 $\pm 0.30$ | 54.96 $\pm 0.13$ | 63.50 $\pm 0.12$ | 21.10 $\pm 0.3$ |
| 50          | 75.60 $\pm 0.30$ | 52.55 $\pm 0.14$ | 61.10 $\pm 0.13$ | 23.90 $\pm 0.3$ |

PCB-Layout: Kat1kGMA

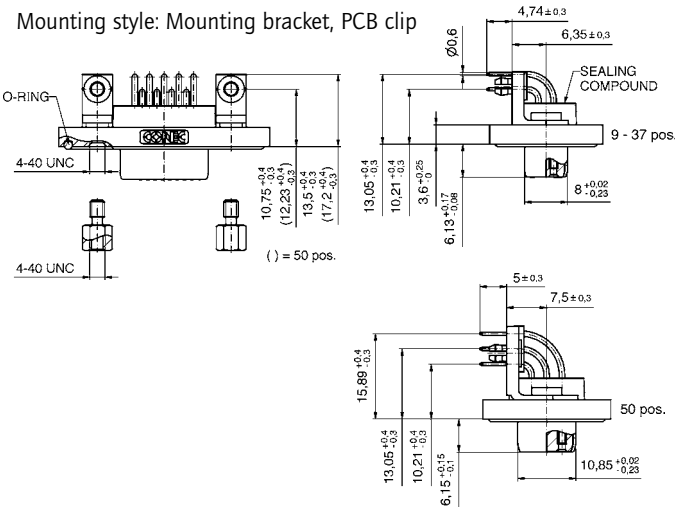
PLUG CONNECTOR



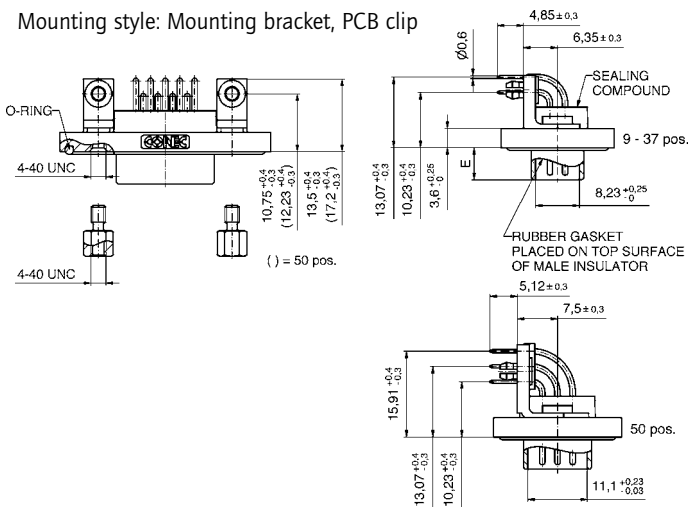
| No. of pos. | A               | B1               | C                | D              | E               |
|-------------|-----------------|------------------|------------------|----------------|-----------------|
| 09          | 39.4 $\pm 0.30$ | 16.81 $\pm 0.23$ | 25.00 $\pm 0.12$ | 21.1 $\pm 0.3$ | 6.00 $\pm 0.12$ |
| 15          | 47.7 $\pm 0.30$ | 25.14 $\pm 0.22$ | 33.32 $\pm 0.12$ | 21.1 $\pm 0.3$ | 6.00 $\pm 0.18$ |
| 25          | 61.4 $\pm 0.30$ | 38.86 $\pm 0.23$ | 47.04 $\pm 0.12$ | 21.1 $\pm 0.3$ | 5.99 $\pm 0.3$  |
| 37          | 78.0 $\pm 0.30$ | 55.32 $\pm 0.23$ | 63.50 $\pm 0.12$ | 21.1 $\pm 0.3$ | 5.99 $\pm 0.3$  |
| 50          | 75.6 $\pm 0.30$ | 52.80 $\pm 0.13$ | 61.10 $\pm 0.14$ | 23.9 $\pm 0.3$ | 5.99 $\pm 0.3$  |

PCB-Layout: Kat1kGNA

Mounting style: Mounting bracket, PCB clip



Mounting style: Mounting bracket, PCB clip



ORDER DATA

SOCKET CONNECTOR

| No. of pos. | Mounting style 4-40 UNC   | Part Number |
|-------------|---------------------------|-------------|
| 09          | Mounting bracket/PCB clip | 15-000773   |
| 15          | Mounting bracket/PCB clip | 15-000783   |
| 25          | Mounting bracket/PCB clip | 15-000793   |
| 37          | Mounting bracket/PCB clip | 15-000803   |
| 50          | Mounting bracket/PCB clip | 15-002143   |

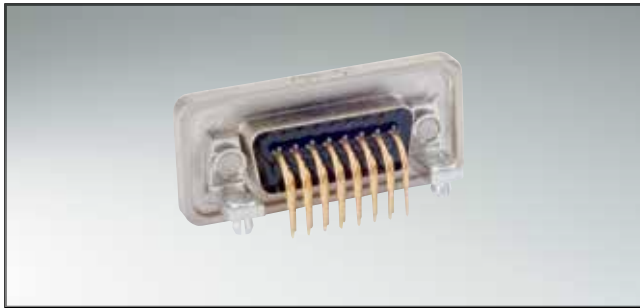
PLUG CONNECTOR

| No. of pos. | Mounting style 4-40 UNC   | Part Number |
|-------------|---------------------------|-------------|
| 09          | Mounting bracket/PCB clip | 15-000733   |
| 15          | Mounting bracket/PCB clip | 15-000743   |
| 25          | Mounting bracket/PCB clip | 15-000753   |
| 37          | Mounting bracket/PCB clip | 15-000763   |
| 50          | Mounting bracket/PCB clip | 15-002133   |

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

# IP67 D-SUB STANDARD SOLID BODY

Solder pin – Angled – .590" / 14.9 mm – Precision machined contacts – Metal bracket

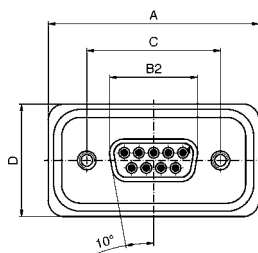


RoHS compliant - UL listed, File No. E202784

## DESCRIPTION

- Mounting style:  
mounting bracket, 4-40 UNC PCB clip  
including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

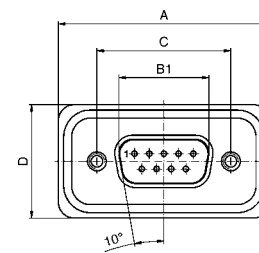
## SOCKET CONNECTOR



| No. of pos. | A                                                            | B2 $\begin{smallmatrix} +0 \\ -0.25 \end{smallmatrix}$ | C                                                            | D                                                          |
|-------------|--------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|
| 09          | 39.40 $\begin{smallmatrix} +0.30 \\ -0.00 \end{smallmatrix}$ | 16.46                                                  | 25.00 $\begin{smallmatrix} +0.12 \\ -0.13 \end{smallmatrix}$ | 21.10 $\begin{smallmatrix} +0.3 \\ -0 \end{smallmatrix}$   |
| 15          | 47.70 $\begin{smallmatrix} +0.30 \\ -0.00 \end{smallmatrix}$ | 24.79                                                  | 33.32 $\begin{smallmatrix} +0.13 \\ -0.12 \end{smallmatrix}$ | 21.10 $\begin{smallmatrix} +0.3 \\ -0 \end{smallmatrix}$   |
| 25          | 61.40 $\begin{smallmatrix} +0.30 \\ -0.00 \end{smallmatrix}$ | 38.50                                                  | 47.04 $\begin{smallmatrix} +0.13 \\ -0.12 \end{smallmatrix}$ | 21.10 $\begin{smallmatrix} +0.3 \\ -0 \end{smallmatrix}$   |
| 37          | 78.00 $\begin{smallmatrix} +0.30 \\ -0.00 \end{smallmatrix}$ | 54.96                                                  | 63.50 $\begin{smallmatrix} +0.13 \\ -0.11 \end{smallmatrix}$ | 21.10 $\begin{smallmatrix} +0.3 \\ -0 \end{smallmatrix}$   |
| 50          | 75.60 $\begin{smallmatrix} +0.30 \\ -0.10 \end{smallmatrix}$ | 52.55                                                  | 61.10 $\begin{smallmatrix} +0.14 \\ -0.11 \end{smallmatrix}$ | 23.90 $\begin{smallmatrix} +0.3 \\ -0.1 \end{smallmatrix}$ |

PCB-Layout: Kat1kGOA

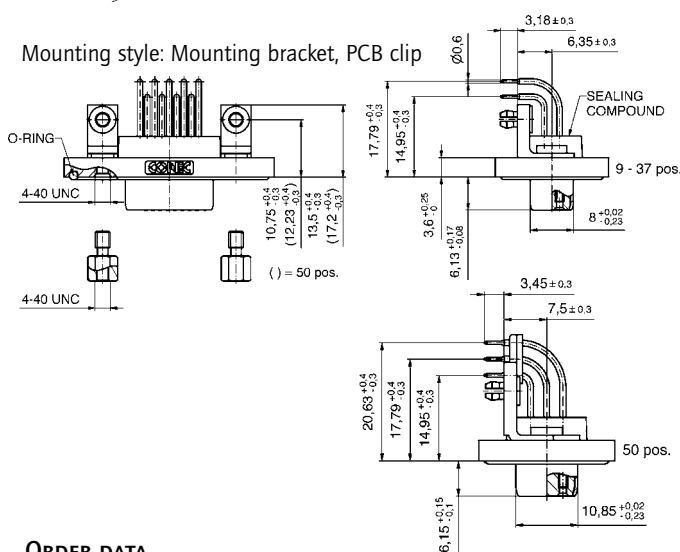
## PLUG CONNECTOR



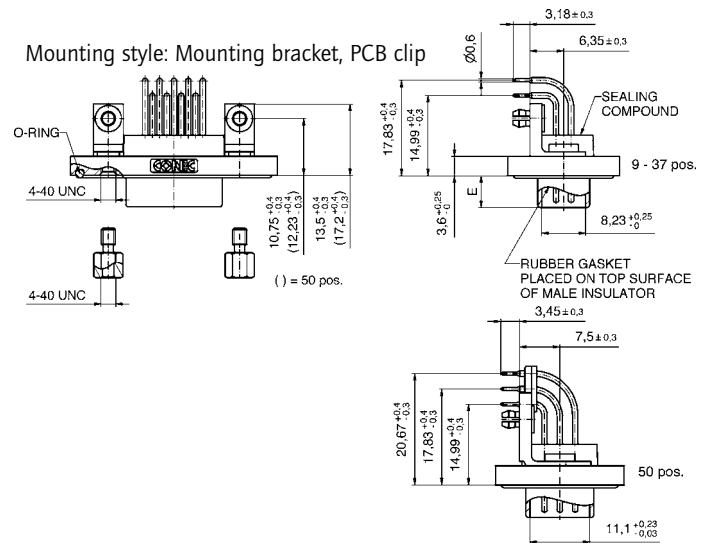
| No. of pos. | A                                                           | B1                                                           | C                                                            | D                                                         | E                                                           |
|-------------|-------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|
| 09          | 39.4 $\begin{smallmatrix} +0.30 \\ -0.00 \end{smallmatrix}$ | 16.81 $\begin{smallmatrix} +0.23 \\ -0.02 \end{smallmatrix}$ | 25.00 $\begin{smallmatrix} +0.12 \\ -0.13 \end{smallmatrix}$ | 21.1 $\begin{smallmatrix} +0.3 \\ -0 \end{smallmatrix}$   | 6.00 $\begin{smallmatrix} +0.12 \\ -0.18 \end{smallmatrix}$ |
| 15          | 47.7 $\begin{smallmatrix} +0.30 \\ -0.00 \end{smallmatrix}$ | 25.14 $\begin{smallmatrix} +0.23 \\ -0.02 \end{smallmatrix}$ | 33.32 $\begin{smallmatrix} +0.13 \\ -0.12 \end{smallmatrix}$ | 21.1 $\begin{smallmatrix} +0.3 \\ -0 \end{smallmatrix}$   | 6.00 $\begin{smallmatrix} +0.12 \\ -0.18 \end{smallmatrix}$ |
| 25          | 61.4 $\begin{smallmatrix} +0.30 \\ -0.00 \end{smallmatrix}$ | 38.86 $\begin{smallmatrix} +0.23 \\ -0.02 \end{smallmatrix}$ | 47.04 $\begin{smallmatrix} +0.13 \\ -0.12 \end{smallmatrix}$ | 21.1 $\begin{smallmatrix} +0.3 \\ -0 \end{smallmatrix}$   | 5.99 $\begin{smallmatrix} +0.3 \\ -0.3 \end{smallmatrix}$   |
| 37          | 78.0 $\begin{smallmatrix} +0.30 \\ -0.00 \end{smallmatrix}$ | 55.32 $\begin{smallmatrix} +0.23 \\ -0.02 \end{smallmatrix}$ | 63.50 $\begin{smallmatrix} +0.13 \\ -0.11 \end{smallmatrix}$ | 21.1 $\begin{smallmatrix} +0.3 \\ -0 \end{smallmatrix}$   | 5.99 $\begin{smallmatrix} +0.3 \\ -0.3 \end{smallmatrix}$   |
| 50          | 75.6 $\begin{smallmatrix} +0.30 \\ -0.10 \end{smallmatrix}$ | 52.80 $\begin{smallmatrix} +0.13 \\ -0.12 \end{smallmatrix}$ | 61.10 $\begin{smallmatrix} +0.14 \\ -0.11 \end{smallmatrix}$ | 23.9 $\begin{smallmatrix} +0.3 \\ -0.1 \end{smallmatrix}$ | 5.99 $\begin{smallmatrix} +0.3 \\ -0.3 \end{smallmatrix}$   |

PCB-Layout: Kat1kGPA

Mounting style: Mounting bracket, PCB clip



Mounting style: Mounting bracket, PCB clip



## ORDER DATA

### SOCKET CONNECTOR

| No. of pos. | Mounting style 4-40 UNC     | Part Number |
|-------------|-----------------------------|-------------|
| 09          | Mounting bracket / PCB clip | 15-000853   |
| 15          | Mounting bracket / PCB clip | 15-000863   |
| 25          | Mounting bracket / PCB clip | 15-000873   |
| 37          | Mounting bracket / PCB clip | 15-000883   |
| 50          | Mounting bracket / PCB clip | 15-002163   |

### PLUG CONNECTOR

| No. of pos. | Mounting style 4-40 UNC     | Part Number |
|-------------|-----------------------------|-------------|
| 09          | Mounting bracket / PCB clip | 15-000813   |
| 15          | Mounting bracket / PCB clip | 15-000823   |
| 25          | Mounting bracket / PCB clip | 15-000833   |
| 37          | Mounting bracket / PCB clip | 15-000843   |
| 50          | Mounting bracket / PCB clip | 15-002153   |

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

# IP67 D-SUB High Density Solid Body

Solder cup – Precision machined contacts – For wire size AWG 22

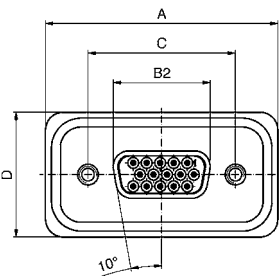


RoHS compliant - UL listed, File No. E202784

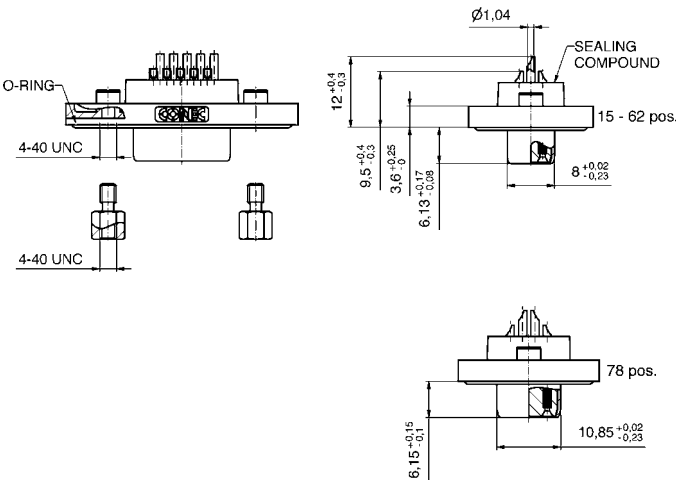
## DESCRIPTION

- Suitable for wire size **AWG 22**
- Mounting style:  
4-40 UNC threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

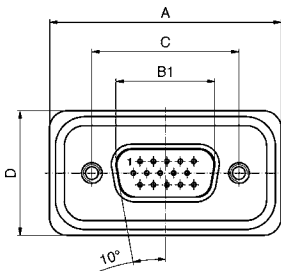
## SOCKET CONNECTOR



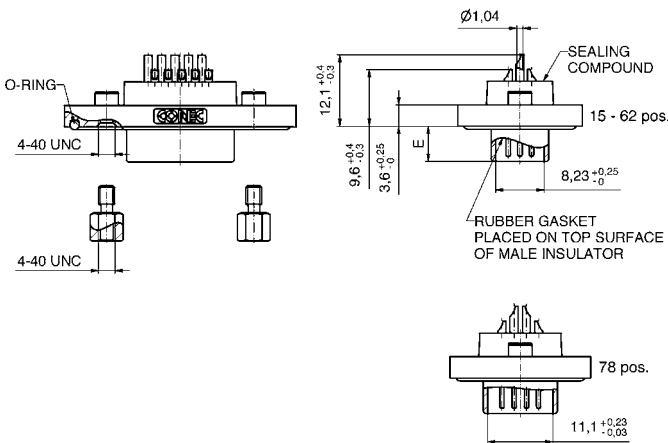
| No. of pos. | A                                       | B2                                      | C                                       | D                                     |
|-------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|
| 15          | 39.40 <sup>+0.30</sup> <sub>-0.00</sub> | 16.46 <sup>+0.00</sup> <sub>-0.25</sub> | 25.00 <sup>+0.12</sup> <sub>-0.13</sub> | 21.10 <sup>+0.3</sup> <sub>-0</sub>   |
| 26          | 47.70 <sup>+0.30</sup> <sub>-0.00</sub> | 24.79 <sup>+0.13</sup> <sub>-0.12</sub> | 33.32 <sup>+0.13</sup> <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> <sub>-0</sub>   |
| 44          | 61.40 <sup>+0.30</sup> <sub>-0.00</sub> | 38.50 <sup>+0.13</sup> <sub>-0.12</sub> | 47.04 <sup>+0.13</sup> <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> <sub>-0</sub>   |
| 62          | 78.00 <sup>+0.30</sup> <sub>-0.00</sub> | 54.96 <sup>+0.13</sup> <sub>-0.12</sub> | 63.50 <sup>+0.13</sup> <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> <sub>-0</sub>   |
| 78          | 75.60 <sup>+0.30</sup> <sub>-0.10</sub> | 52.55 <sup>+0.14</sup> <sub>-0.11</sub> | 61.10 <sup>+0.14</sup> <sub>-0.11</sub> | 23.90 <sup>+0.3</sup> <sub>-0.1</sub> |



## PLUG CONNECTOR



| No. of pos. | A                                      | B1                                      | C                                       | D                                    | E                                      |
|-------------|----------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------------|----------------------------------------|
| 15          | 39.4 <sup>+0.30</sup> <sub>-0.00</sub> | 16.81 <sup>+0.23</sup> <sub>-0.00</sub> | 25.00 <sup>+0.12</sup> <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> <sub>-0</sub>   | 6.00 <sup>+0.12</sup> <sub>-0.18</sub> |
| 26          | 47.7 <sup>+0.30</sup> <sub>-0.00</sub> | 25.14 <sup>+0.22</sup> <sub>-0.02</sub> | 33.32 <sup>+0.12</sup> <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> <sub>-0</sub>   | 6.00 <sup>+0.12</sup> <sub>-0.18</sub> |
| 44          | 61.4 <sup>+0.30</sup> <sub>-0.00</sub> | 38.86 <sup>+0.23</sup> <sub>-0.02</sub> | 47.04 <sup>+0.12</sup> <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> <sub>-0</sub>   | 5.99 <sup>+0.0</sup> <sub>-0.3</sub>   |
| 62          | 78.0 <sup>+0.30</sup> <sub>-0.01</sub> | 55.32 <sup>+0.23</sup> <sub>-0.02</sub> | 63.50 <sup>+0.12</sup> <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> <sub>-0</sub>   | 5.99 <sup>+0.0</sup> <sub>-0.3</sub>   |
| 78          | 75.6 <sup>+0.30</sup> <sub>-0.10</sub> | 52.80 <sup>+0.13</sup> <sub>-0.12</sub> | 61.10 <sup>+0.14</sup> <sub>-0.11</sub> | 23.9 <sup>+0.3</sup> <sub>-0.1</sub> | 5.99 <sup>+0.0</sup> <sub>-0.3</sub>   |



## ORDER DATA

| SOCKET CONNECTOR |                         |             |
|------------------|-------------------------|-------------|
| No. of pos.      | Mounting style 4-40 UNC | Part Number |
| 15               | Threaded insert         | 15-000693   |
| 26               | Threaded insert         | 15-000703   |
| 44               | Threaded insert         | 15-000713   |
| 62               | Threaded insert         | 15-000723   |
| 78               | Threaded insert         | 15-002123   |

| PLUG CONNECTOR |                         |             |
|----------------|-------------------------|-------------|
| No. of pos.    | Mounting style 4-40 UNC | Part Number |
| 15             | Threaded insert         | 15-000653   |
| 26             | Threaded insert         | 15-000663   |
| 44             | Threaded insert         | 15-000673   |
| 62             | Threaded insert         | 15-000683   |
| 78             | Threaded insert         | 15-002113   |

# IP67 D-SUB HIGH DENSITY SOLID BODY

Solder pin – Straight – Precision machined contacts

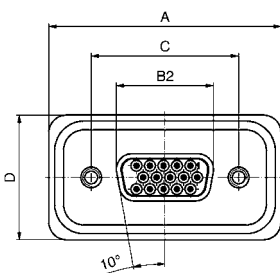


RoHS compliant - UL listed, File No. E202784

## DESCRIPTION

- Mounting style:  
4-40 UNC threaded rear spacer with PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

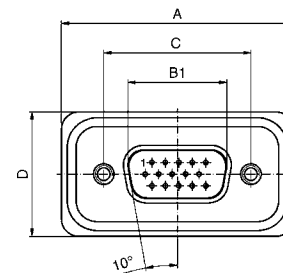
## SOCKET CONNECTOR



| No. of pos. | A                                         | B2 <sup>+0</sup> / <sub>-0.25</sub> | C                                         | D                                       |
|-------------|-------------------------------------------|-------------------------------------|-------------------------------------------|-----------------------------------------|
| 15          | 39.40 <sup>+0.30</sup> / <sub>-0.00</sub> | 16.46                               | 25.00 <sup>+0.12</sup> / <sub>-0.13</sub> | 21.10 <sup>+0.3</sup> / <sub>-0</sub>   |
| 26          | 47.70 <sup>+0.30</sup> / <sub>-0.00</sub> | 24.79                               | 33.32 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> / <sub>-0</sub>   |
| 44          | 61.40 <sup>+0.30</sup> / <sub>-0.00</sub> | 38.50                               | 47.04 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> / <sub>-0</sub>   |
| 62          | 78.00 <sup>+0.30</sup> / <sub>-0.00</sub> | 54.96                               | 63.50 <sup>+0.13</sup> / <sub>-0.11</sub> | 21.10 <sup>+0.3</sup> / <sub>-0</sub>   |
| 78          | 75.60 <sup>+0.30</sup> / <sub>-0.10</sub> | 52.55                               | 61.10 <sup>+0.14</sup> / <sub>-0.11</sub> | 23.90 <sup>+0.3</sup> / <sub>-0.1</sub> |

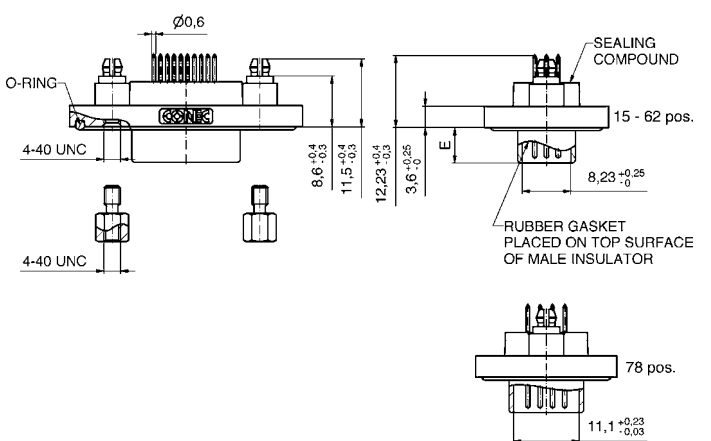
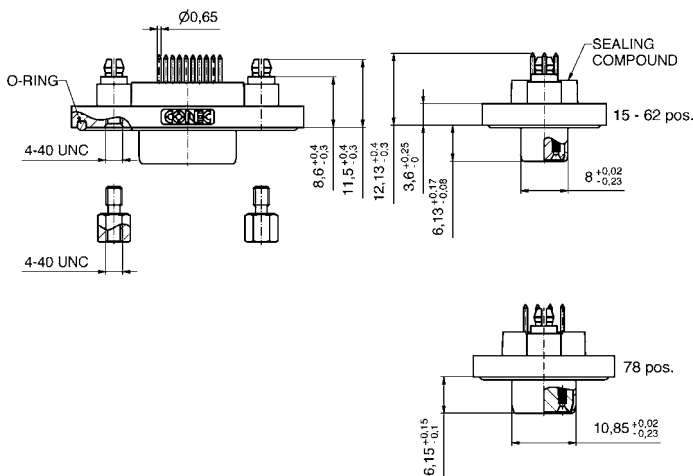
PCB-Layout: Kat1iT9A

## PLUG CONNECTOR



| No. of pos. | A                                       | B1                                        | C                                         | D                                      | E                                       |
|-------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------|
| 15          | 39.4 <sup>+0.30</sup> / <sub>0.00</sub> | 16.81 <sup>+0.23</sup> / <sub>-0.02</sub> | 25.00 <sup>+0.12</sup> / <sub>0.12</sub>  | 21.1 <sup>+0.3</sup> / <sub>0</sub>    | 6.00 <sup>+0.12</sup> / <sub>0.18</sub> |
| 26          | 47.7 <sup>+0.30</sup> / <sub>0.00</sub> | 25.14 <sup>+0.23</sup> / <sub>-0.02</sub> | 33.32 <sup>+0.12</sup> / <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> / <sub>0</sub>    | 6.00 <sup>+0.12</sup> / <sub>0.18</sub> |
| 44          | 61.4 <sup>+0.30</sup> / <sub>0.00</sub> | 38.86 <sup>+0.23</sup> / <sub>-0.02</sub> | 47.04 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> / <sub>0</sub>    | 5.99 <sup>+0</sup> / <sub>0.3</sub>     |
| 62          | 78.0 <sup>+0.30</sup> / <sub>0.00</sub> | 55.32 <sup>+0.23</sup> / <sub>-0.02</sub> | 63.50 <sup>+0.13</sup> / <sub>-0.11</sub> | 21.1 <sup>+0.3</sup> / <sub>0</sub>    | 5.99 <sup>+0</sup> / <sub>0.3</sub>     |
| 78          | 75.6 <sup>+0.30</sup> / <sub>0.10</sub> | 52.80 <sup>+0.13</sup> / <sub>-0.12</sub> | 61.10 <sup>+0.14</sup> / <sub>-0.11</sub> | 23.9 <sup>+0.3</sup> / <sub>-0.1</sub> | 5.99 <sup>+0</sup> / <sub>0.3</sub>     |

PCB-Layout: Kat1iUOA



## ORDER DATA

### SOCKET CONNECTOR

| No. of pos. | Mounting style 4-40 UNC       | Part Number |
|-------------|-------------------------------|-------------|
| 15          | Threaded rear spacer PCB clip | 15-000533   |
| 26          | Threaded rear spacer PCB clip | 15-000543   |
| 44          | Threaded rear spacer PCB clip | 15-000553   |
| 62          | Threaded rear spacer PCB clip | 15-000563   |
| 78          | Threaded rear spacer PCB clip | 15-002183   |

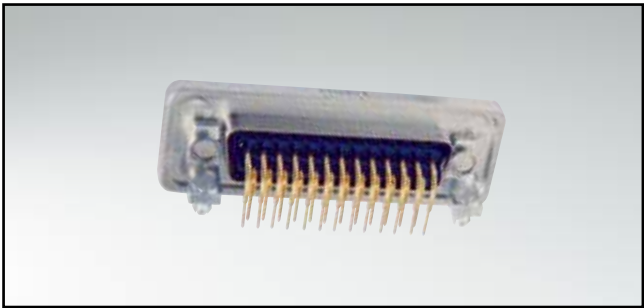
### PLUG CONNECTOR

| No. of pos. | Mounting style 4-40 UNC       | Part Number |
|-------------|-------------------------------|-------------|
| 15          | Threaded rear spacer PCB clip | 15-000493   |
| 26          | Threaded rear spacer PCB clip | 15-000503   |
| 44          | Threaded rear spacer PCB clip | 15-000513   |
| 62          | Threaded rear spacer PCB clip | 15-000523   |
| 78          | Threaded rear spacer PCB clip | 15-002073   |

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

# IP67 D-SUB High Density Solid Body

Solder pin – Angled – .362"/9,2 mm – Precision machined contacts – Metal bracket

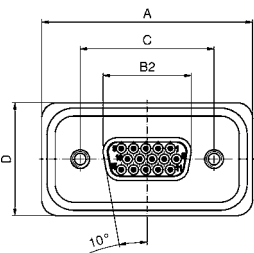


RoHS compliant - UL listed, File No. E202784

## DESCRIPTION

- Mounting style:  
Mounting bracket, 4-40 UNC PCB clip  
including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

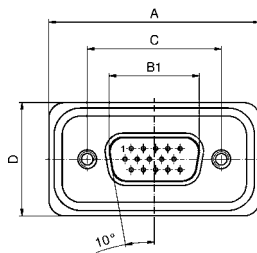
## SOCKET CONNECTOR



| No. of pos. | A                                         | B2 <sup>+0</sup> / <sub>-0.25</sub> | C                                         | D                                       |
|-------------|-------------------------------------------|-------------------------------------|-------------------------------------------|-----------------------------------------|
| 15          | 39.40 <sup>+0.30</sup> / <sub>0.00</sub>  | 16.46                               | 25.00 <sup>+0.12</sup> / <sub>-0.13</sub> | 21.10 <sup>+0.3</sup> / <sub>0</sub>    |
| 26          | 47.70 <sup>+0.30</sup> / <sub>0.00</sub>  | 24.79                               | 33.32 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> / <sub>0</sub>    |
| 44          | 61.40 <sup>+0.30</sup> / <sub>0.00</sub>  | 38.50                               | 47.04 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> / <sub>0</sub>    |
| 62          | 78.00 <sup>+0.30</sup> / <sub>0.00</sub>  | 54.96                               | 63.50 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.10 <sup>+0.3</sup> / <sub>0</sub>    |
| 78          | 75.60 <sup>+0.30</sup> / <sub>-0.10</sub> | 52.55                               | 61.10 <sup>+0.14</sup> / <sub>-0.11</sub> | 23.90 <sup>+0.3</sup> / <sub>-0.1</sub> |

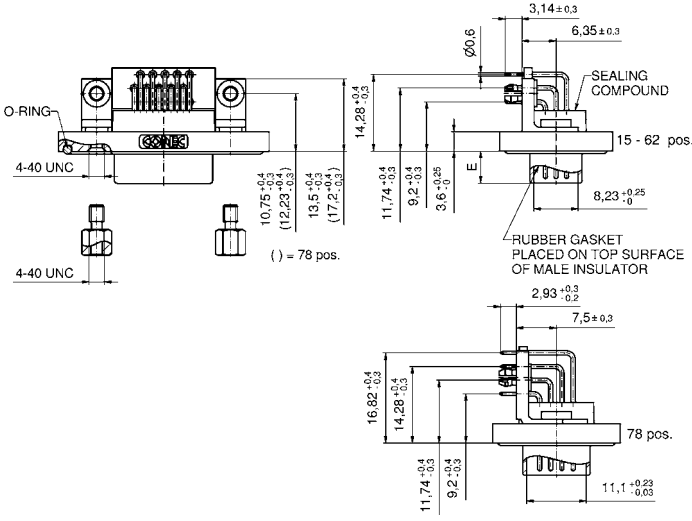
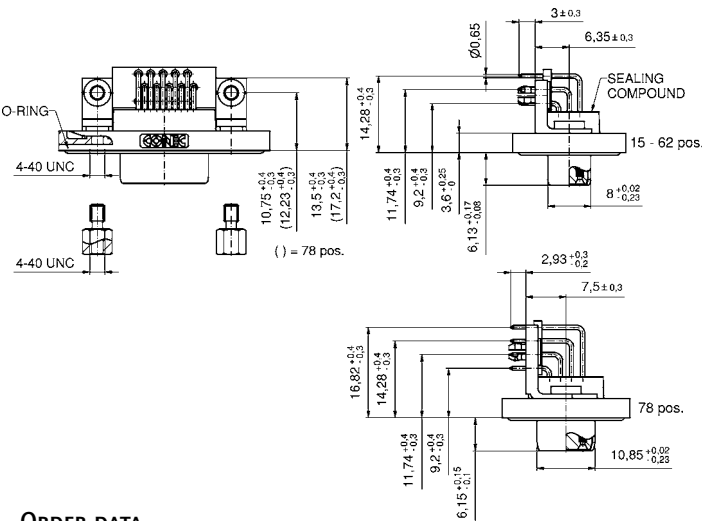
PCB-Layout: Kat1kHRA

## PLUG CONNECTOR



| No. of pos. | A                                        | B1                                        | C                                         | D                                      | E                                        |
|-------------|------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------|------------------------------------------|
| 15          | 39.4 <sup>+0.30</sup> / <sub>0.00</sub>  | 16.81 <sup>+0.23</sup> / <sub>-0.02</sub> | 25.00 <sup>+0.12</sup> / <sub>-0.13</sub> | 21.1 <sup>+0.3</sup> / <sub>0</sub>    | 6.00 <sup>+0.12</sup> / <sub>-0.18</sub> |
| 26          | 47.7 <sup>+0.30</sup> / <sub>0.00</sub>  | 25.14 <sup>+0.23</sup> / <sub>-0.02</sub> | 33.32 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> / <sub>0</sub>    | 6.00 <sup>+0.12</sup> / <sub>-0.18</sub> |
| 44          | 61.4 <sup>+0.30</sup> / <sub>0.00</sub>  | 38.86 <sup>+0.23</sup> / <sub>-0.02</sub> | 47.04 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> / <sub>0</sub>    | 5.99 <sup>+0</sup> / <sub>-0.3</sub>     |
| 62          | 78.0 <sup>+0.30</sup> / <sub>0.00</sub>  | 55.32 <sup>+0.23</sup> / <sub>-0.02</sub> | 63.50 <sup>+0.13</sup> / <sub>-0.12</sub> | 21.1 <sup>+0.3</sup> / <sub>0</sub>    | 5.99 <sup>+0</sup> / <sub>-0.3</sub>     |
| 78          | 75.6 <sup>+0.30</sup> / <sub>-0.10</sub> | 52.80 <sup>+0.13</sup> / <sub>-0.12</sub> | 61.10 <sup>+0.14</sup> / <sub>-0.11</sub> | 23.9 <sup>+0.3</sup> / <sub>-0.1</sub> | 5.99 <sup>+0</sup> / <sub>-0.3</sub>     |

PCB-Layout: Kat1kHQA



## ORDER DATA

### SOCKET CONNECTOR

| No. of pos. | Mounting style 4-40 UNC   | Part Number |
|-------------|---------------------------|-------------|
| 15          | Mounting bracket/PCB clip | 15-002243   |
| 26          | Mounting bracket/PCB clip | 15-002253   |
| 44          | Mounting bracket/PCB clip | 15-002263   |
| 62          | Mounting bracket/PCB clip | 15-002273   |
| 78          | Mounting bracket/PCB clip | 15-002283   |

### PLUG CONNECTOR

| No. of pos. | Mounting style 4-40 UNC   | Part Number |
|-------------|---------------------------|-------------|
| 15          | Mounting bracket/PCB clip | 15-002193   |
| 26          | Mounting bracket/PCB clip | 15-002203   |
| 44          | Mounting bracket/PCB clip | 15-002213   |
| 62          | Mounting bracket/PCB clip | 15-002223   |
| 78          | Mounting bracket/PCB clip | 15-002233   |

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

# IP67 D-SUB High DENSITY Solid Body

Solder pin – Angled – .484" / 12,3 mm – Precision machined contacts – Metal bracket

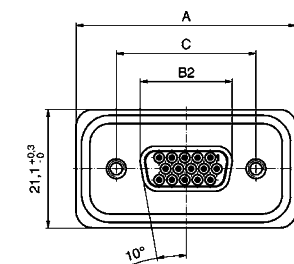


RoHS compliant - UL listed, File No. E202784

## DESCRIPTION

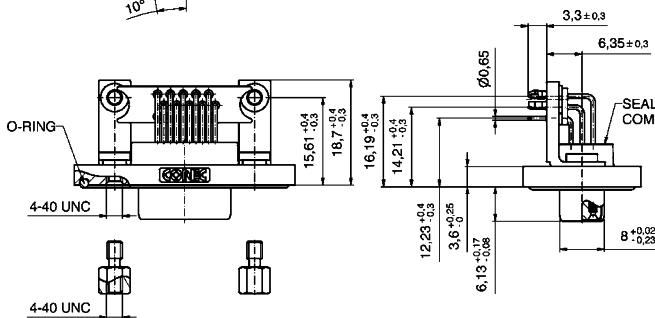
- Mounting style:  
Mounting bracket, 4-40 UNC PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

## SOCKET CONNECTOR

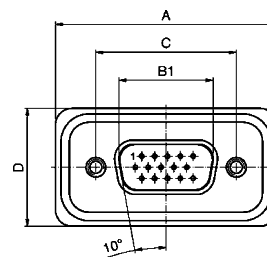


| No. of pos. | A +0.3 | B2 +0.0<br>-0.25 | C                                |
|-------------|--------|------------------|----------------------------------|
| 15          | 39.40  | 16.46            | 25.00 <sup>+0.12<br/>-0.13</sup> |
| 26          | 47.70  | 24.79            | 33.32 <sup>+0.13<br/>-0.12</sup> |
| 44          | 61.40  | 38.50            | 47.04 <sup>+0.13</sup>           |
| 62          | 78.00  | 54.96            | 63.50 <sup>+0.13</sup>           |

PCB-Layout: Kat1kGQA

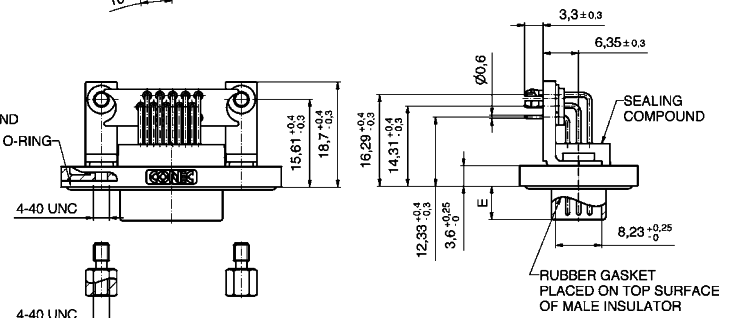


## PLUG CONNECTOR



| No. of pos. | A +0.3 | B1 +0.0<br>-0.25 | C                                | D                                | E                               |
|-------------|--------|------------------|----------------------------------|----------------------------------|---------------------------------|
| 15          | 39.40  | 16.81            | 25.00 <sup>+0.12<br/>-0.13</sup> | 21.10 <sup>+0.12<br/>-0.13</sup> | 6.00 <sup>+0.12<br/>-0.13</sup> |
| 26          | 47.70  | 25.14            | 33.32 <sup>+0.13<br/>-0.12</sup> | 21.10 <sup>+0.12<br/>-0.13</sup> | 6.00 <sup>+0.12<br/>-0.13</sup> |
| 44          | 61.40  | 38.86            | 47.04 <sup>+0.13</sup>           | 21.10 <sup>+0.12<br/>-0.13</sup> | 5.99 <sup>+0.12<br/>-0.13</sup> |
| 62          | 78.00  | 55.32            | 63.50 <sup>+0.13</sup>           | 21.10 <sup>+0.12<br/>-0.13</sup> | 5.99 <sup>+0.12<br/>-0.13</sup> |

PCB-Layout: Kat1kGRA



## ORDER DATA

### SOCKET CONNECTOR

| No. of pos. | Mounting style 4-40 UNC     | Part Number |
|-------------|-----------------------------|-------------|
| 15          | Mounting bracket / PCB clip | 15-000933   |
| 26          | Mounting bracket / PCB clip | 15-000943   |
| 44          | Mounting bracket / PCB clip | 15-000953   |
| 62          | Mounting bracket / PCB clip | 15-000963   |

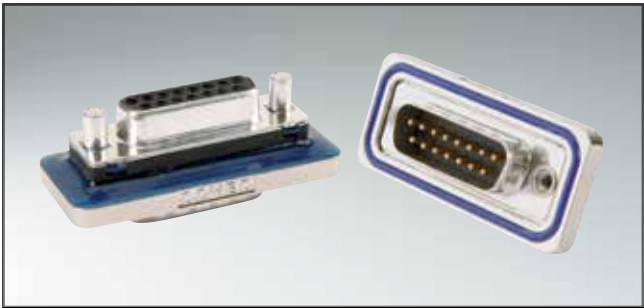
### PLUG CONNECTOR

| No. of pos. | Mounting style 4-40 UNC     | Part Number |
|-------------|-----------------------------|-------------|
| 15          | Mounting bracket / PCB clip | 15-000893   |
| 26          | Mounting bracket / PCB clip | 15-000903   |
| 44          | Mounting bracket / PCB clip | 15-000913   |
| 62          | Mounting bracket / PCB clip | 15-000923   |

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

# IP67 D-SUB STANDARD

## Interface adapter – Connector Saver

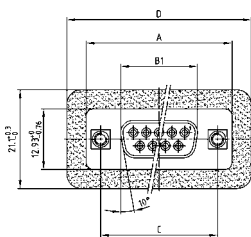


RoHS compliant - UL listed, File No. E202784

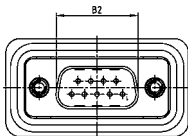
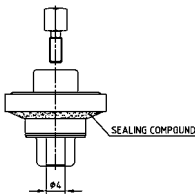
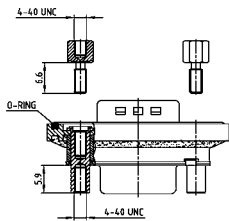
### DESCRIPTION

- Plug to socket adapter
- Mounting style:  
4-40 UNC threaded rear spacer including hex locking bolt
- Precision machined contacts
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated
- Nickel plated die-cast frame

### PRODUCT DRAWING



| No. of Pos. | A -0.76 | B1 -0.25 | B2 +0.25 | C                   | D +0.3 |
|-------------|---------|----------|----------|---------------------|--------|
| 9           | 31.19   | 16.46    | 16.79    | 25.00 $+0.12/-0.13$ | 39.40  |
| 15          | 39.52   | 24.79    | 25.12    | 33.30 $+0.15/-0.10$ | 47.70  |
| 25          | 53.42   | 38.50    | 38.84    | 47.04 $+0.13$       | 61.40  |
| 37          | 69.70   | 54.96    | 55.30    | 63.50 $+0.13$       | 77.90  |



### ORDER DATA

| ADAPTER PLUG CONNECTOR - SOCKET CONNECTOR |                         |                 |
|-------------------------------------------|-------------------------|-----------------|
| No. of pos.                               | Mounting style 4-40 UNC | Part Number     |
| 09                                        | Threaded rear spacer    | 6STD09AAA99B90X |
| 15                                        | Threaded rear spacer    | 6STD15AAA99B90X |
| 25                                        | Threaded rear spacer    | 6STD25AAA99B90X |
| 37                                        | Threaded rear spacer    | 6STD37AAA99B90X |

# CONVERSION TABLE

| $\mu\text{m}$<br>1/1000 mm | $\mu\text{inch}$<br>1/1000 inch | mm    | inch | mm    | inch | mm    | inch  | mm    | inch  | mm     | inch  |
|----------------------------|---------------------------------|-------|------|-------|------|-------|-------|-------|-------|--------|-------|
| 0,10                       | 4                               | 3,30  | .130 | 10,16 | .400 | 19,50 | .768  | 30,90 | 1.217 | 49,50  | 1.949 |
| 0,20                       | 8                               | 3,40  | .134 | 10,26 | .402 | 19,70 | .776  | 31,00 | 1.220 | 49,90  | 1.965 |
| 0,25                       | 10                              | 3,50  | .138 | 10,36 | .406 | 19,80 | .780  | 31,20 | 1.228 | 50,10  | 1.972 |
| 0,30                       | 12                              | 3,60  | .142 | 10,56 | .413 | 19,90 | .783  | 31,50 | 1.240 | 50,30  | 1.980 |
| 0,50                       | 20                              | 3,70  | .146 | 10,66 | .417 | 20,00 | .787  | 31,70 | 1.248 | 50,50  | 1.988 |
| 0,70                       | 28                              | 3,80  | .150 | 10,76 | .421 | 20,10 | .791  | 32,00 | 1.260 | 50,70  | 1.996 |
| 0,75                       | 30                              | 3,81  | .150 | 11,00 | .433 | 20,30 | .799  | 32,20 | 1.268 | 50,80  | 2.000 |
| 0,80                       | 32                              | 3,90  | .154 | 11,20 | .441 | 20,32 | .800  | 32,30 | 1.272 | 51,40  | 2.024 |
| 1,00                       | 39                              | 4,00  | .158 | 11,40 | .449 | 20,50 | .807  | 32,50 | 1.280 | 51,50  | 2.028 |
| 1,27                       | 50                              | 4,10  | .161 | 11,50 | .453 | 21,00 | .827  | 32,80 | 1.291 | 52,00  | 2.047 |
| 2,00                       | 79                              | 4,20  | .165 | 11,60 | .457 | 21,10 | .831  | 33,00 | 1.299 | 52,30  | 2.059 |
| 2,50                       | 98                              | 4,30  | .169 | 11,90 | .469 | 21,70 | .854  | 33,10 | 1.303 | 52,80  | 2.079 |
| 3,00                       | 118                             | 4,50  | .177 | 12,00 | .472 | 22,00 | .866  | 33,30 | 1.311 | 53,00  | 2.087 |
| 4,00                       | 157                             | 4,70  | .185 | 12,20 | .480 | 22,10 | .870  | 33,80 | 1.331 | 53,20  | 2.095 |
| 5,00                       | 197                             | 4,90  | .193 | 12,30 | .484 | 22,20 | .874  | 34,00 | 1.339 | 53,80  | 2.118 |
| <b>mm</b>                  | <b>inch</b>                     | 5,00  | .197 | 12,40 | .488 | 22,30 | .878  | 34,20 | 1.346 | 54,00  | 2.126 |
| 0,10                       | .004                            | 5,08  | .200 | 12,50 | .492 | 22,40 | .882  | 34,40 | 1.354 | 54,20  | 2.134 |
| 0,20                       | .008                            | 5,10  | .201 | 12,70 | .500 | 22,50 | .886  | 35,00 | 1.378 | 54,90  | 2.161 |
| 0,25                       | .012                            | 5,20  | .205 | 12,90 | .508 | 22,60 | .890  | 35,40 | 1.394 | 55,00  | 2.165 |
| 0,35                       | .014                            | 5,30  | .209 | 13,00 | .512 | 22,80 | .898  | 35,50 | 1.398 | 55,40  | 2.181 |
| 0,40                       | .016                            | 5,40  | .213 | 13,10 | .516 | 22,86 | .900  | 35,56 | 1.400 | 55,70  | 2.193 |
| 0,45                       | .018                            | 5,50  | .217 | 13,20 | .520 | 22,90 | .902  | 35,60 | 1.402 | 56,60  | 2.228 |
| 0,50                       | .020                            | 5,60  | .220 | 13,50 | .532 | 23,00 | .906  | 36,00 | 1.417 | 57,40  | 2.260 |
| 0,55                       | .022                            | 5,70  | .224 | 13,60 | .535 | 23,10 | .909  | 36,50 | 1.437 | 57,80  | 2.276 |
| 0,60                       | .024                            | 5,80  | .228 | 13,70 | .539 | 23,30 | .917  | 36,60 | 1.441 | 57,90  | 2.280 |
| 0,64                       | .025                            | 6,00  | .236 | 13,90 | .547 | 23,50 | .925  | 36,70 | 1.445 | 58,42  | 2.300 |
| 0,65                       | .026                            | 6,10  | .240 | 14,00 | .551 | 24,00 | .945  | 37,00 | 1.457 | 59,00  | 2.323 |
| 0,70                       | .028                            | 6,40  | .252 | 14,30 | .563 | 24,30 | .957  | 37,30 | 1.469 | 59,20  | 2.331 |
| 0,75                       | .030                            | 6,50  | .256 | 14,40 | .567 | 24,60 | .969  | 37,50 | 1.476 | 59,80  | 2.354 |
| 0,80                       | .032                            | 6,60  | .260 | 14,50 | .571 | 24,90 | .980  | 37,60 | 1.480 | 59,90  | 2.358 |
| 0,85                       | .034                            | 6,70  | .264 | 14,70 | .579 | 25,00 | .984  | 37,70 | 1.484 | 60,00  | 2.362 |
| 0,90                       | .035                            | 6,80  | .268 | 14,80 | .583 | 25,10 | .998  | 37,90 | 1.492 | 60,96  | 2.400 |
| 1,00                       | .039                            | 6,90  | .272 | 14,90 | .587 | 25,40 | 1.000 | 38,00 | 1.496 | 61,10  | 2.406 |
| 1,20                       | .047                            | 7,00  | .276 | 14,98 | .590 | 25,60 | 1.008 | 38,10 | 1.500 | 62,00  | 2.441 |
| 1,25                       | .049                            | 7,10  | .280 | 15,00 | .591 | 25,90 | 1.020 | 39,00 | 1.535 | 63,00  | 2.480 |
| 1,27                       | .050                            | 7,20  | .283 | 15,20 | .598 | 26,00 | 1.024 | 39,20 | 1.543 | 63,50  | 2.500 |
| 1,30                       | .051                            | 7,40  | .291 | 15,24 | .600 | 26,30 | 1.035 | 39,30 | 1.547 | 64,00  | 2.520 |
| 1,35                       | .053                            | 7,50  | .295 | 15,40 | .606 | 26,60 | 1.047 | 39,90 | 1.571 | 65,00  | 2.560 |
| 1,40                       | .055                            | 7,60  | .299 | 15,50 | .610 | 26,70 | 1.051 | 40,00 | 1.575 | 67,00  | 2.638 |
| 1,45                       | .057                            | 7,62  | .300 | 15,60 | .614 | 27,00 | 1.063 | 40,30 | 1.587 | 68,00  | 2.677 |
| 1,50                       | .059                            | 7,70  | .303 | 15,90 | .626 | 27,20 | 1.071 | 40,40 | 1.591 | 69,00  | 2.717 |
| 1,60                       | .063                            | 7,80  | .307 | 16,00 | .630 | 27,40 | 1.079 | 40,60 | 1.598 | 70,00  | 2.756 |
| 1,70                       | .067                            | 7,98  | .314 | 16,20 | .638 | 27,50 | 1.093 | 41,00 | 1.614 | 71,00  | 2.795 |
| 1,80                       | .071                            | 8,00  | .315 | 16,50 | .650 | 27,90 | 1.098 | 41,60 | 1.638 | 74,00  | 2.913 |
| 1,85                       | .073                            | 8,18  | .318 | 16,60 | .654 | 27,94 | 1.100 | 42,70 | 1.681 | 75,00  | 2.953 |
| 1,90                       | .075                            | 8,20  | .323 | 16,80 | .661 | 28,00 | 1.102 | 43,18 | 1.700 | 76,20  | 3.000 |
| 2,00                       | .079                            | 8,30  | .327 | 17,00 | .669 | 28,20 | 1.110 | 44,20 | 1.740 | 77,00  | 3.032 |
| 2,10                       | .083                            | 8,40  | .331 | 17,20 | .677 | 28,50 | 1.122 | 44,80 | 1.764 | 78,74  | 3.100 |
| 2,20                       | .087                            | 8,50  | .335 | 17,30 | .681 | 28,70 | 1.130 | 45,80 | 1.803 | 80,00  | 3.150 |
| 2,30                       | .091                            | 8,60  | .339 | 17,50 | .689 | 29,00 | 1.142 | 46,30 | 1.823 | 81,28  | 3.200 |
| 2,40                       | .095                            | 8,90  | .350 | 17,60 | .693 | 29,20 | 1.150 | 46,70 | 1.839 | 84,00  | 3.307 |
| 2,50                       | .098                            | 9,00  | .354 | 17,70 | .697 | 29,40 | 1.158 | 47,00 | 1.850 | 85,00  | 3.346 |
| 2,54                       | .100                            | 9,10  | .358 | 17,78 | .700 | 29,50 | 1.161 | 47,20 | 1.858 | 86,36  | 3.400 |
| 2,60                       | .102                            | 9,20  | .362 | 17,80 | .701 | 29,70 | 1.169 | 47,30 | 1.862 | 88,90  | 3.500 |
| 2,70                       | .106                            | 9,30  | .366 | 17,90 | .705 | 29,90 | 1.177 | 47,50 | 1.870 | 90,00  | 3.543 |
| 2,80                       | .110                            | 9,40  | .370 | 18,00 | .709 | 30,00 | 1.181 | 47,80 | 1.882 | 91,44  | 3.600 |
| 2,84                       | .112                            | 9,50  | .374 | 18,10 | .713 | 30,20 | 1.189 | 48,00 | 1.890 | 94,00  | 3.701 |
| 2,90                       | .114                            | 9,60  | .378 | 18,30 | .721 | 30,40 | 1.197 | 48,10 | 1.894 | 95,00  | 3.740 |
| 3,00                       | .118                            | 9,70  | .382 | 18,60 | .732 | 30,48 | 1.200 | 48,26 | 1.900 | 100,00 | 3.937 |
| 3,10                       | .122                            | 9,90  | .390 | 19,00 | .748 | 30,50 | 1.201 | 48,80 | 1.921 | 110,00 | 4.331 |
| 3,20                       | .126                            | 10,00 | .395 | 19,20 | .756 | 30,80 | 1.213 | 49,10 | 1.933 | 120,00 | 4.724 |

## IP-CODE FIGURE DEFINITIONS

| 1. Code figure | Definition                                                                                                                                        | Remark                                                                                                                                                                                                                                                                    |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0              | Not protected                                                                                                                                     |                                                                                                                                                                                                                                                                           |
| 1              | Protected against access to hazardous parts by the back of the hand.<br>Protected against fixed foreign objects $\varnothing \geq 1.969''/50$ mm. |                                                                                                                                                                                                                                                                           |
| 2              | Protected against access to hazardous parts with a finger.<br>Protected against fixed foreign objects $\varnothing \geq .492''/12.5$ mm.          |                                                                                                                                                                                                                                                                           |
| 3              | Protected against access to hazardous parts with a tool.<br>Protected against fixed foreign objects $\varnothing \geq .098''/2.5$ mm.             |                                                                                                                                                                                                                                                                           |
| 4              | Protected against access to hazardous parts with a wire.<br>Protected against fixed foreign objects $\varnothing \geq .039''/1$ mm.               |                                                                                                                                                                                                                                                                           |
| 5              | Protected against access to hazardous parts with a wire.<br>Dust protected.                                                                       | Ingress of dust is not completely blocked. But dust may not penetrate to the extent that satisfactory operation of the device or safety is impaired.                                                                                                                      |
| 6              | Protected against access to hazardous parts with a wire.<br>Dustproof. No ingress of dust.                                                        |                                                                                                                                                                                                                                                                           |
| 2. Code figure | Definition                                                                                                                                        | Remark                                                                                                                                                                                                                                                                    |
| 0              | Not protected                                                                                                                                     |                                                                                                                                                                                                                                                                           |
| 1              | Protected against dropper.                                                                                                                        |                                                                                                                                                                                                                                                                           |
| 2              | Protected against dropper when the shell is tipped as much as 15°.                                                                                |                                                                                                                                                                                                                                                                           |
| 3              | Protected against spray water                                                                                                                     | Up to 60° of either side of the vertical, such spray water shall have no harmful effects.                                                                                                                                                                                 |
| 4              | Protected against splash water                                                                                                                    | On the shell from all directions, no harmful effects shall be incurred.                                                                                                                                                                                                   |
| 5              | Protected against jets of water.                                                                                                                  |                                                                                                                                                                                                                                                                           |
| 6              | Protected against strong jets of water.                                                                                                           |                                                                                                                                                                                                                                                                           |
| 7              | Protected against the effects of temporary submersion in water.                                                                                   | Water may not ingress in a volume that would cause harmful effects when the shell is submerged in water for 30 min at a depth of 1 m.                                                                                                                                     |
| 8              | Protected against the effects of continuous submersion in water.                                                                                  | Water may not ingress in a volume that would cause harmful effects when the shell is continuously submerged in water under conditions agreed between manufacturer and user.<br>However, these conditions must be more stringent than those described under code figure 7. |
| 9k             | Protected against water from high-pressure or steam cleaning.                                                                                     |                                                                                                                                                                                                                                                                           |

### Explanation to spray water protected (IP) systems and their environment.

This system, described in IEC 60529, was developed to represent standard values for respective protection:

- a) Contact with, and ingress of, fixed foreign objects
- b) The ingress of liquids to which the inside is to be exposed.

The first digit describes the level of protection for life, contacting objects and the intrusion of foreign bodies. The second digit describes the level of protection against the ingress of liquids. The larger the first and second digits are, the greater afforded protection is, e.g. IP55 must also meet the requirements of all lower protection levels, such as IP22, IP23, IP34 and IP54.

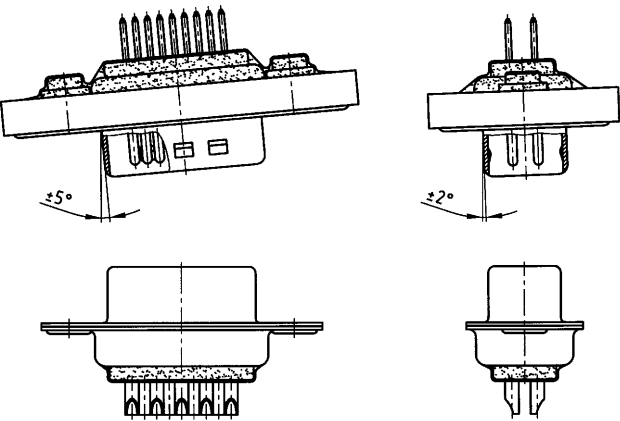
# TECHNICAL DATA

| Materials                                 | D-Subminiature, Standard<br>9, 15, 25, 37 and 50 position                                                                    |                 | D-Subminiature, High Density<br>15, 26, 44, 62 and 78 position                            |                              |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------|------------------------------|
| Insulator                                 | Polyester GF UL94 V-0                                                                                                        |                 |                                                                                           |                              |
| Contacts                                  | CU alloy                                                                                                                     |                 |                                                                                           |                              |
| Contact plating                           | Gold plated over nickel                                                                                                      |                 |                                                                                           |                              |
| Shell                                     | Brass tin plated (Standard)<br>Stainless steel on request                                                                    |                 |                                                                                           |                              |
| Mechanical and electrical characteristics |                                                                                                                              |                 |                                                                                           |                              |
| Test voltage U eff/NN                     | 1000 V                                                                                                                       |                 |                                                                                           |                              |
| Working voltage                           | 125 V ≈<br>depending on isolation coordination (refer to DIN VDE 0110/IEC 664-1)                                             |                 | 60 V ≈                                                                                    |                              |
| Current rating                            | 7.5 A (UL) / 5 A (CSA,VDE)                                                                                                   |                 | 3 A (UL,VDE) / 2.5 A (CSA)                                                                |                              |
| Contact resistance                        | max. 10 mΩ prior to stressing, Δ R max. 10 mΩ after stressing<br>per DIN 41652, Part 2                                       |                 |                                                                                           |                              |
| Insulation resistance                     | ≥ 5 GΩ                                                                                                                       |                 |                                                                                           |                              |
| Clearance and creepage distance           | contact – contact                                                                                                            | ≥ .04" / 1.0 mm | ≥ .024"/0.6 mm                                                                            |                              |
|                                           | contact – earth                                                                                                              | ≥ .047"/1.2 mm  |                                                                                           |                              |
| Operating temperature                     | – 25 °C to + 105 °C                                                                                                          |                 |                                                                                           |                              |
| Mating and unmating forces                | 9 pos. ≤ 30 N<br>15 pos. ≤ 50 N<br>25 pos. ≤ 83 N<br>37 pos. ≤ 123 N<br>50 pos. ≤ 167 N                                      |                 | 15 pos. ≤ 50 N<br>26 pos. ≤ 84 N<br>44 pos. ≤ 120 N<br>62 pos. ≤ 170 N<br>78 pos. ≤ 200 N |                              |
| Quality class                             | A = Quality class 3 = 50 mating cycles<br>B = Quality class 2 = 200 mating cycles<br>C = Quality class 1 = 500 mating cycles |                 |                                                                                           |                              |
| Recommended<br>wave-solder parameters     | Preheating                                                                                                                   |                 | Solder terminal dipping parameters                                                        |                              |
|                                           | max. Temperature                                                                                                             | Duration        | max. Solder bath Temperature                                                              | max. Terminal Immersion Time |
| D-SUB Water Resistant                     | 120°C                                                                                                                        | 120s            | 240°C                                                                                     | 5s                           |
| D-SUB Solid Body Type Water Resistant     | 150°C                                                                                                                        | 180s            | 265°C                                                                                     | 8s                           |

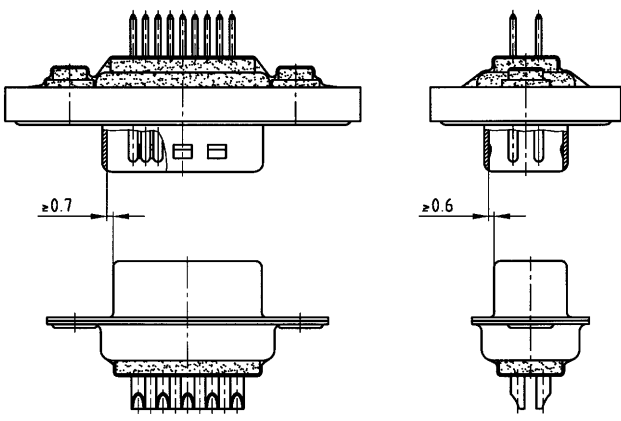
Technical specifications are subject to change without notice.

MATING CONDITIONS

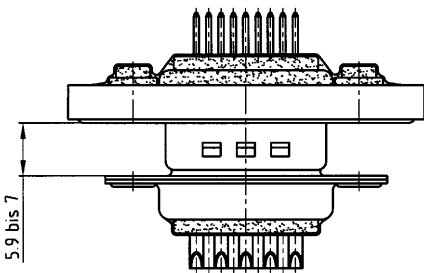
Float mount tolerance guide



Rigid mount tolerance guide

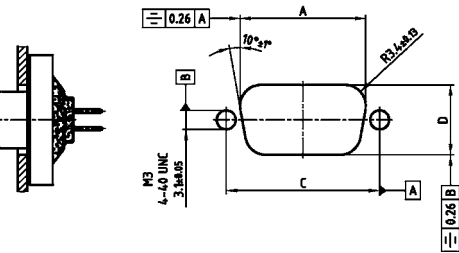


Rigid mount vertical to tolerance guide

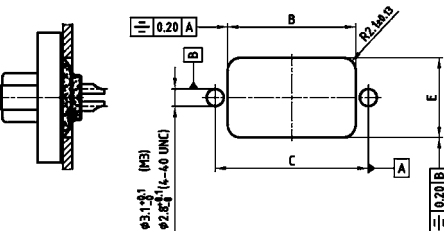


PANEL CUT-OUT

Rear panel mounting IP67 D-SUB Connectors



Front panel mounting IP67 D-SUB Connectors

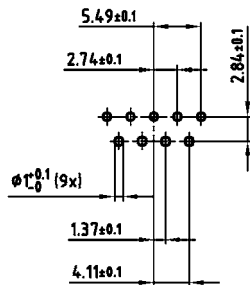


| Shell size | A ±0.1 | B ±0.1 | C ±0.1 | D ±0.1 | E ±0.1 |
|------------|--------|--------|--------|--------|--------|
| 1          | 20.50  | 20.90  | 25.00  | 11.40  | 13.00  |
| 2          | 28.80  | 29.20  | 33.30  | 11.40  | 13.00  |
| 3          | 42.50  | 42.90  | 47.04  | 11.40  | 13.00  |
| 4          | 59.10  | 59.40  | 63.50  | 11.40  | 13.00  |
| 5          | 56.30  | 57.00  | 61.10  | 14.10  | 15.80  |

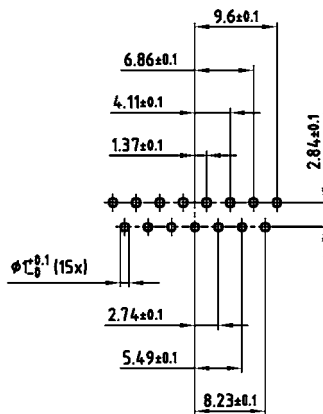
# PCB LAYOUT D-SUB STANDARD

Solder pin, straight – without rear spacer PCB clip – Plug and Socket connector

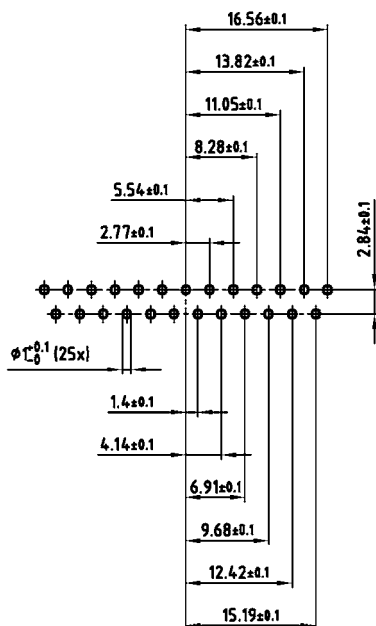
9 POS.



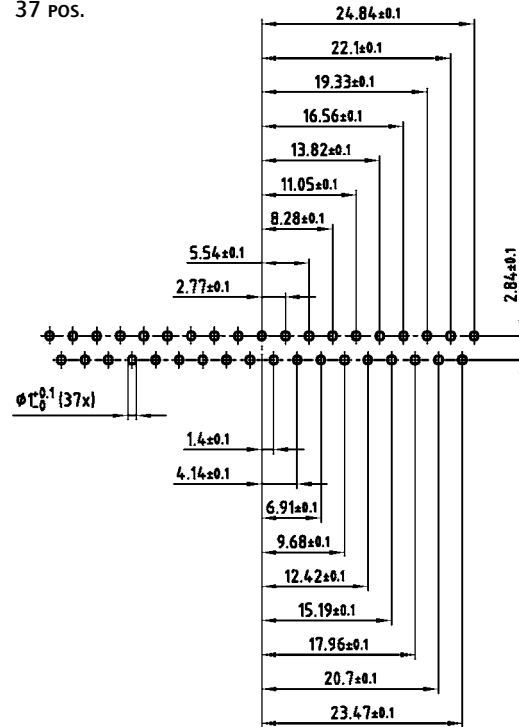
15 POS.



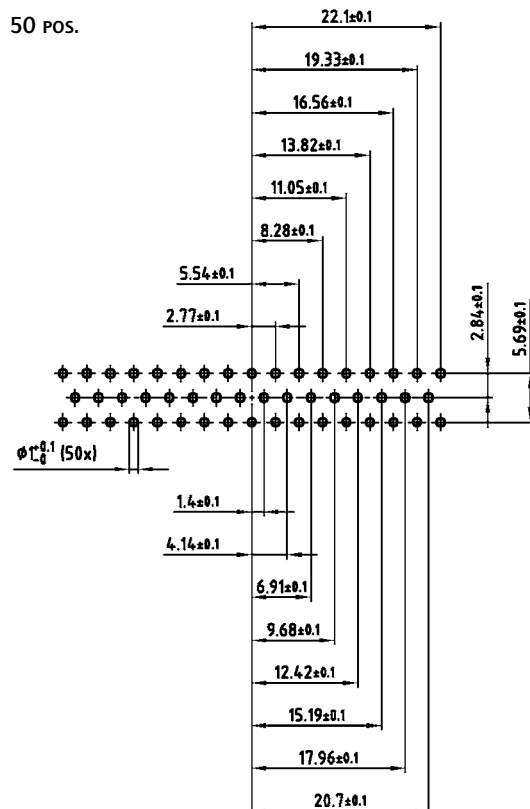
25 POS.



37 POS.



50 POS.

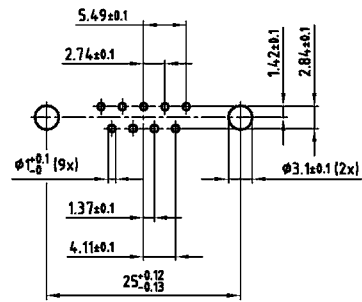


PCB layout Kat1 kFVA (View: component side)

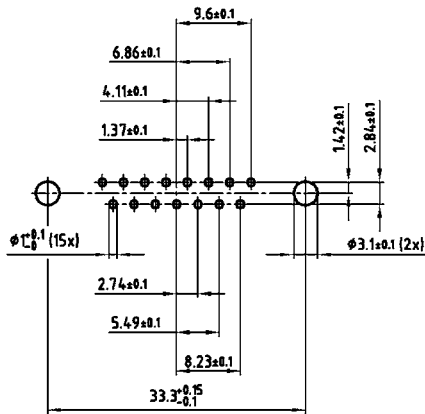
# PCB LAYOUT D-SUB STANDARD

Solder pin, straight – With rear spacer PCB clip – Plug and Socket connector

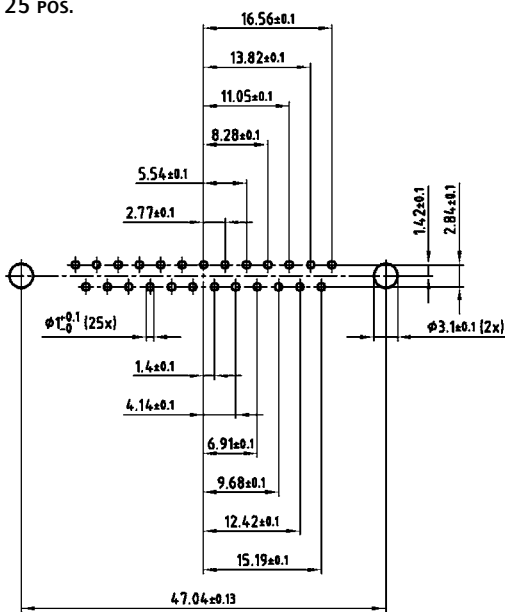
9 POS.



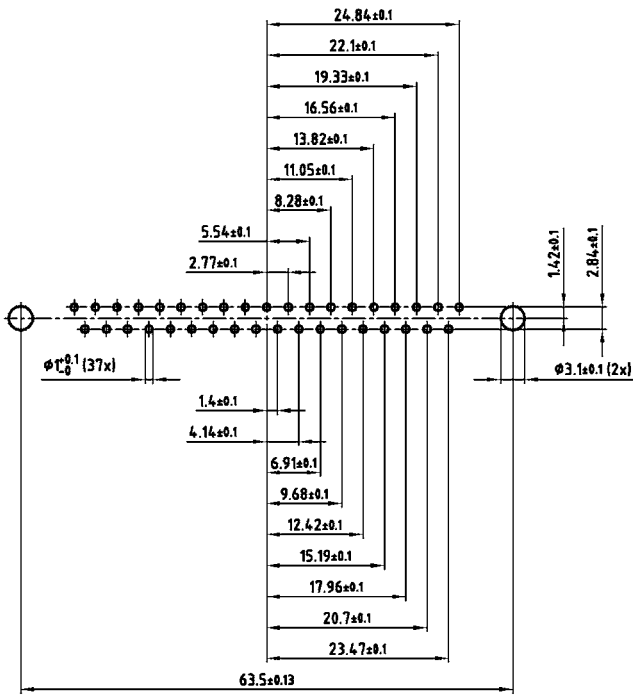
15 POS.



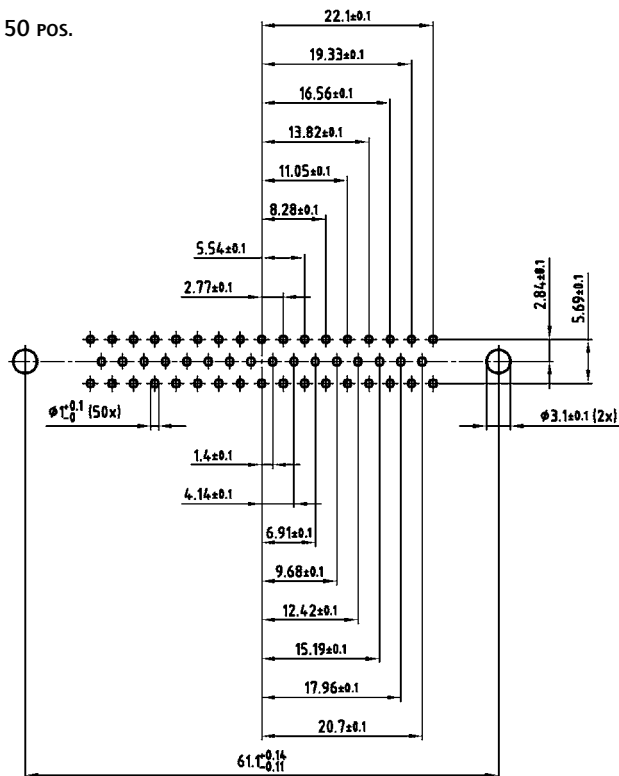
25 POS.



37 POS.



50 POS.



Solder pin, angled, .189"/4.8 mm – Plug and Socket connector

Technical drawing of the front panel of a control cabinet. The drawing shows a rectangular panel with various components and dimensions. Key dimensions include:

- Overall width:  $25^{+0.12}_{-0.13}$
- Distance from left edge to first vertical line:  $5.49 \pm 0.1$
- Distance between first and second vertical lines:  $2.74 \pm 0.1$
- Distance between second and third vertical lines:  $2.5 \pm 0.1$
- Distance between third and fourth vertical lines:  $2.84 \pm 0.1$
- Distance from left edge to first horizontal line:  $9.25$
- Distance between first and second horizontal lines:  $3.35$
- Distance between second and third horizontal lines:  $1.37 \pm 0.1$
- Distance between third and fourth horizontal lines:  $4.11 \pm 0.1$
- Distance from bottom edge to first horizontal line:  $3.35$
- Distance from bottom edge to second horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to third horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to fourth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to fifth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to sixth horizontal line:  $3.35$
- Distance from bottom edge to seventh horizontal line:  $9.25$
- Distance from bottom edge to eighth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to ninth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to tenth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to eleventh horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to twelfth horizontal line:  $3.35$
- Distance from bottom edge to thirteenth horizontal line:  $9.25$
- Distance from bottom edge to fourteenth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to fifteenth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to sixteenth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to seventeenth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to eighteenth horizontal line:  $3.35$
- Distance from bottom edge to nineteenth horizontal line:  $9.25$
- Distance from bottom edge to twentieth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to twenty-first horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to twenty-second horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to twenty-third horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to twenty-fourth horizontal line:  $3.35$
- Distance from bottom edge to twenty-fifth horizontal line:  $9.25$
- Distance from bottom edge to twenty-sixth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to twenty-seventh horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to twenty-eighth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to twenty-ninth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to thirtieth horizontal line:  $3.35$
- Distance from bottom edge to thirty-first horizontal line:  $9.25$
- Distance from bottom edge to thirty-second horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to thirty-third horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to thirty-fourth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to thirty-fifth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to thirty-sixth horizontal line:  $3.35$
- Distance from bottom edge to thirty-seventh horizontal line:  $9.25$
- Distance from bottom edge to thirty-eighth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to thirty-ninth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to fortieth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to forty-first horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to forty-second horizontal line:  $3.35$
- Distance from bottom edge to forty-third horizontal line:  $9.25$
- Distance from bottom edge to forty-fourth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to forty-fifth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to forty-sixth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to forty-seventh horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to forty-eighth horizontal line:  $3.35$
- Distance from bottom edge to forty-ninth horizontal line:  $9.25$
- Distance from bottom edge to fiftieth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to fifty-first horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to fifty-second horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to fifty-third horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to fifty-fourth horizontal line:  $3.35$
- Distance from bottom edge to fifty-fifth horizontal line:  $9.25$
- Distance from bottom edge to fifty-sixth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to fifty-seventh horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to fifty-eighth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to fifty-ninth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to sixtieth horizontal line:  $3.35$
- Distance from bottom edge to sixty-first horizontal line:  $9.25$
- Distance from bottom edge to sixty-second horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to sixty-third horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to sixty-fourth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to sixty-fifth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to sixty-sixth horizontal line:  $3.35$
- Distance from bottom edge to sixty-seventh horizontal line:  $9.25$
- Distance from bottom edge to sixty-eighth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to sixty-ninth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to seventieth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to seventy-first horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to seventy-second horizontal line:  $3.35$
- Distance from bottom edge to seventy-third horizontal line:  $9.25$
- Distance from bottom edge to seventy-fourth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to seventy-fifth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to seventy-sixth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to seventy-seventh horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to seventy-eighth horizontal line:  $3.35$
- Distance from bottom edge to seventy-ninth horizontal line:  $9.25$
- Distance from bottom edge to eightieth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to eighty-first horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to eighty-second horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to eighty-third horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to eighty-fourth horizontal line:  $3.35$
- Distance from bottom edge to eighty-fifth horizontal line:  $9.25$
- Distance from bottom edge to eighty-sixth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to eighty-seventh horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to eighty-eighth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to eighty-ninth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to ninetieth horizontal line:  $3.35$
- Distance from bottom edge to one hundredth horizontal line:  $9.25$
- Distance from bottom edge to one hundred and first horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to one hundred and second horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to one hundred and third horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to one hundred and fourth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to one hundred and fifth horizontal line:  $3.35$
- Distance from bottom edge to one hundred and sixth horizontal line:  $9.25$
- Distance from bottom edge to one hundred and seventh horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to one hundred and eighth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to one hundred and ninth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to one hundred and tenth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to one hundred and eleventh horizontal line:  $3.35$
- Distance from bottom edge to one hundred and twelfth horizontal line:  $9.25$
- Distance from bottom edge to one hundred and thirteenth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to one hundred and fourteenth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to one hundred and fifteenth horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to one hundred and sixteenth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to one hundred and seventeenth horizontal line:  $3.35$
- Distance from bottom edge to one hundred and eighteenth horizontal line:  $9.25$
- Distance from bottom edge to one hundred and nineteenth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to one hundred and twentieth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to one hundred and twenty-first horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to one hundred and twenty-second horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to one hundred and twenty-third horizontal line:  $3.35$
- Distance from bottom edge to one hundred and twenty-fourth horizontal line:  $9.25$
- Distance from bottom edge to one hundred and twenty-fifth horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to one hundred and twenty-sixth horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to one hundred and twenty-seventh horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to one hundred and twenty-eighth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to one hundred and twenty-ninth horizontal line:  $3.35$
- Distance from bottom edge to one hundred and thirtieth horizontal line:  $9.25$
- Distance from bottom edge to one hundred and thirty-first horizontal line:  $1.37 \pm 0.1$
- Distance from bottom edge to one hundred and thirty-second horizontal line:  $4.11 \pm 0.1$
- Distance from bottom edge to one hundred and thirty-third horizontal line:  $2.84 \pm 0.1$
- Distance from bottom edge to one hundred and thirty-fourth horizontal line:  $2.5 \pm 0.1$
- Distance from bottom edge to one hundred and thirty-fifth horizontal line:  $3.35$
- Distance from bottom edge to one hundred and thirty-sixth horizontal line

[illegible]

Technical drawing of a front panel showing dimensions and component locations.

**Dimensions:**

- Total width:  $47.04 \pm 0.13$
- Top section widths:  $16.56 \pm 0.1$ ,  $13.82 \pm 0.1$ ,  $11.05 \pm 0.1$ ,  $8.28 \pm 0.1$ ,  $5.54 \pm 0.1$ ,  $2.77 \pm 0.1$
- Left side height:  $9.25$
- Bottom section heights:  $1.4 \pm 0.1$ ,  $4.14 \pm 0.1$ ,  $6.91 \pm 0.1$ ,  $9.68 \pm 0.1$ ,  $12.42 \pm 0.1$ ,  $15.19 \pm 0.1$
- Right side heights:  $2.54 \pm 0.1$ ,  $2.84 \pm 0.1$
- Internal vertical offset:  $3.35$

**Component Labels:**

- $\phi 1^{\frac{1}{8}}_{-0}^{+0.1}$  (25x)
- $\phi 3.1 \pm 0.1$  (2x)
- P.C.B. EDGE
- FRONT PANEL

[illegible]

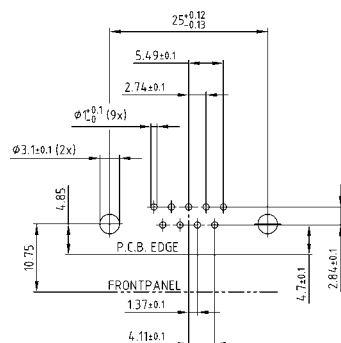
Technical drawing of a front panel with dimensions and labels. The drawing shows a rectangular panel with a grid of holes. Key dimensions and labels include:

- Overall width:  $61.1 \pm 0.14$
- Overall height:  $12.23$
- Top edge dimensions (from left to right):
  - $22.1 \pm 0.1$
  - $19.33 \pm 0.1$
  - $16.56 \pm 0.1$
  - $13.82 \pm 0.1$
  - $11.05 \pm 0.1$
  - $8.28 \pm 0.1$
- Left edge dimensions (from top to bottom):
  - $\phi 3.1 \pm 0.1 (2x)$
  - $6.33$
- Internal dimensions (from left to right):
  - $5.54 \pm 0.1$
  - $2.77 \pm 0.1$
  - $1.4 \pm 0.1$
  - $4.14 \pm 0.1$
  - $6.91 \pm 0.1$
  - $9.68 \pm 0.1$
  - $12.42 \pm 0.1$
  - $15.19 \pm 0.1$
  - $17.96 \pm 0.1$
  - $20.7 \pm 0.1$
- Bottom edge dimensions (from left to right):
  - $2.5 \pm 0.1$
  - $2.84 \pm 0.1$
  - $2.84 \pm 0.1$
- Labels:
  - $\phi 1.0^{+0.1}_{-0} (50x)$
  - P.C.B. EDGE
  - FRONT PANEL

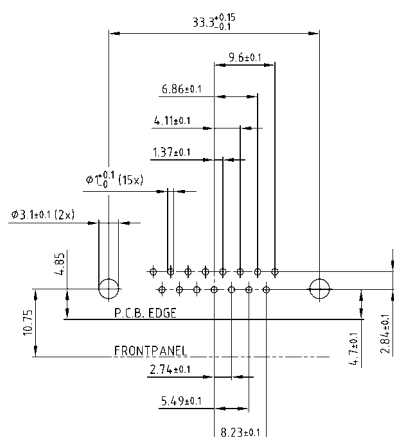
# PCB LAYOUT D-SUB STANDARD

Solder pin, angled, .276" / 7.0 mm – Plug and Socket connector

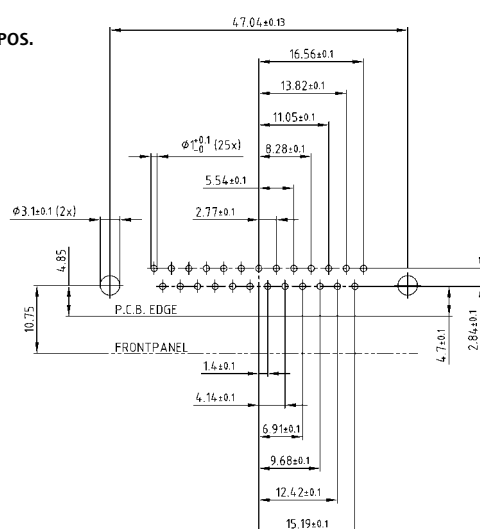
9 POS.



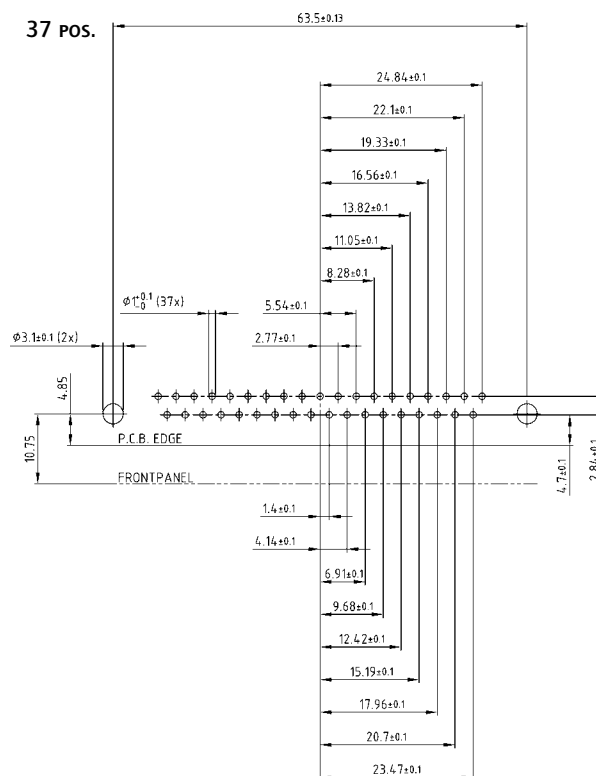
15 POS.



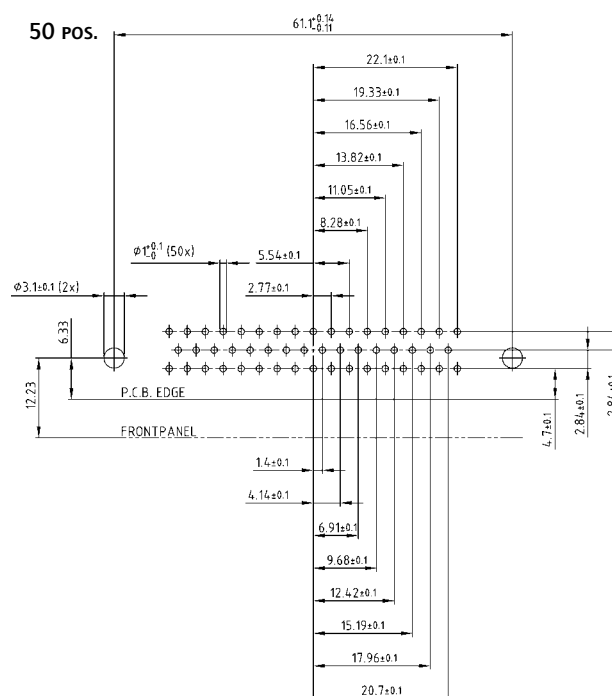
25 POS.



37 POS.



50 pos.

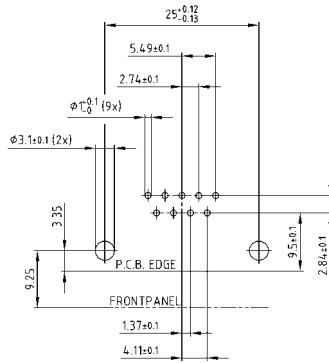


PCB layout Kat1kGTA (View: component side)

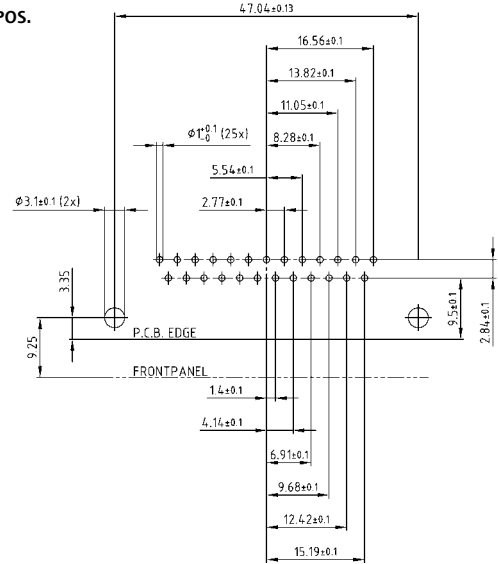
# PCB LAYOUT D-SUB STANDARD

Solder pin, angled, .464" / 11.8 mm – Plug and Socket connector

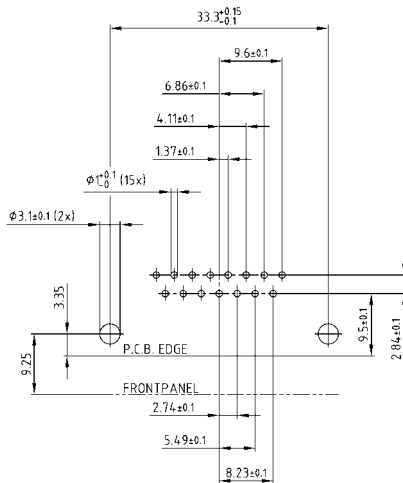
9 pos.



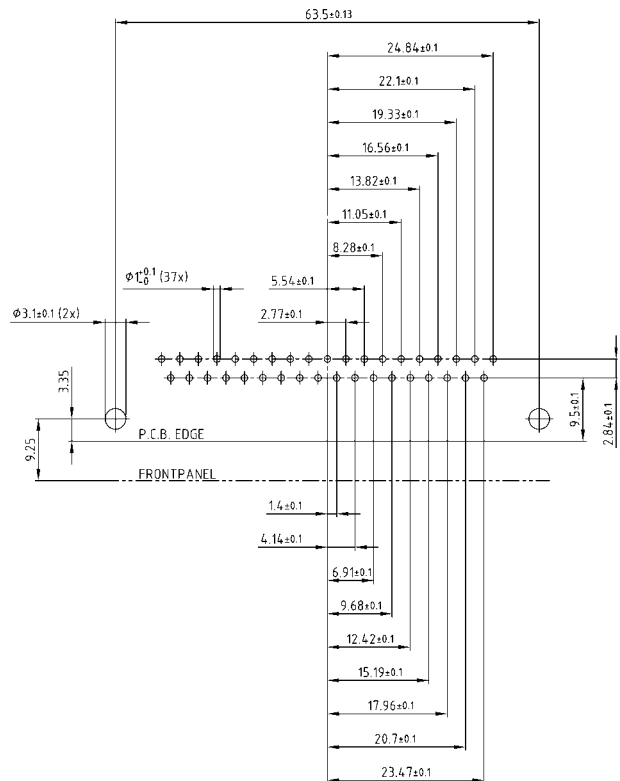
25 pos.



15 pos.



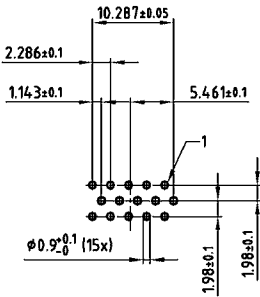
37 pos.



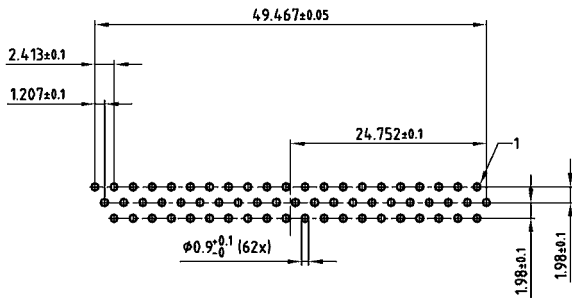
# PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, straight – without rear spacer PCB clip – Socket connector

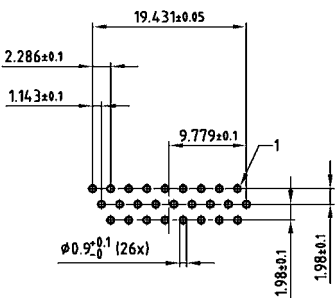
15 POS.



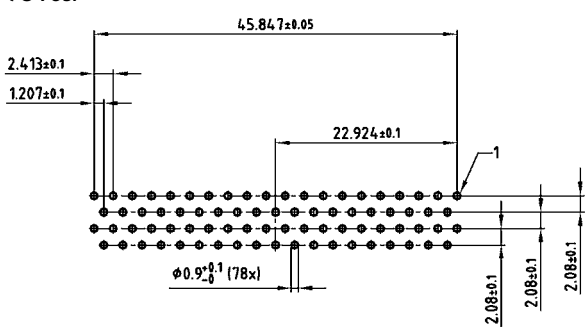
62 POS.



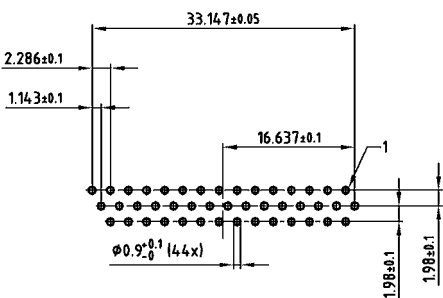
26 POS.



78 POS.



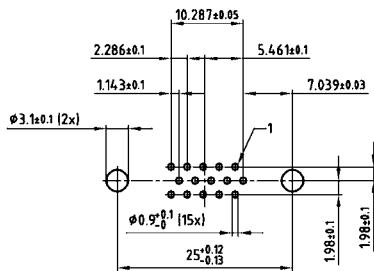
44 POS.



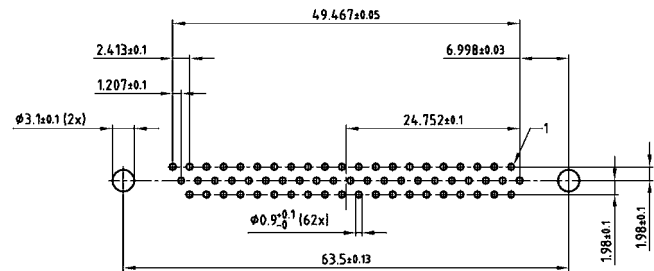
# PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, straight – With rear spacer PCB clip – Socket connector

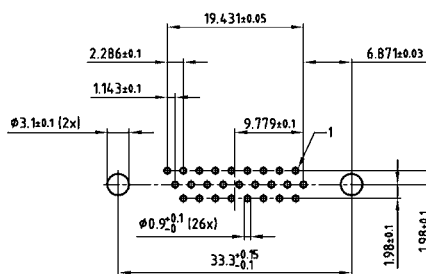
15 POS.



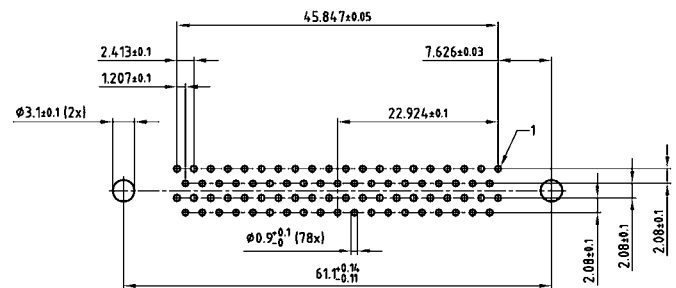
62 POS.



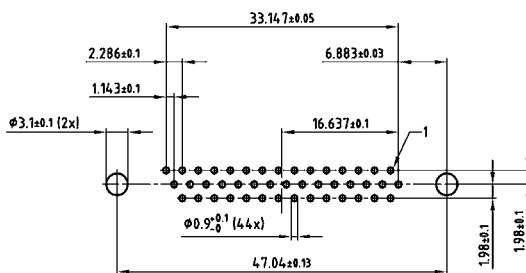
26 POS.



78 POS.



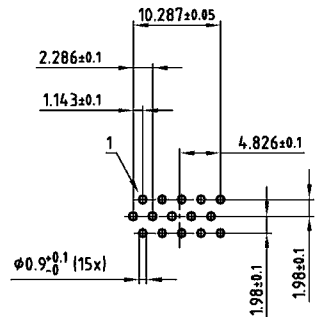
44 POS.



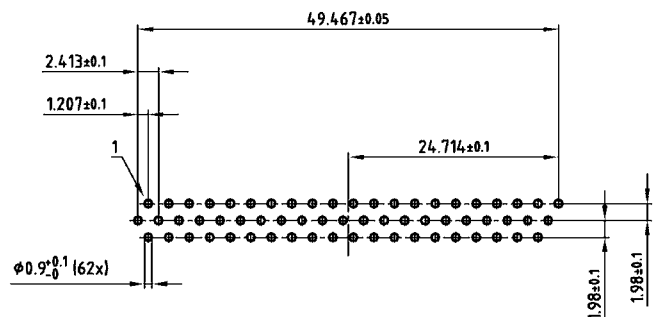
# PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, straight – Without rear spacer PCB clip – Plug connector

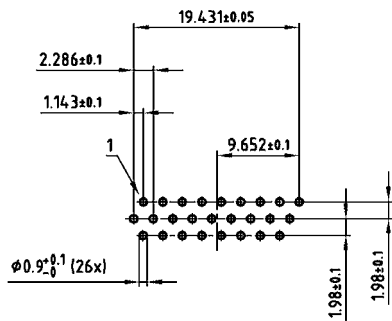
15 POS.



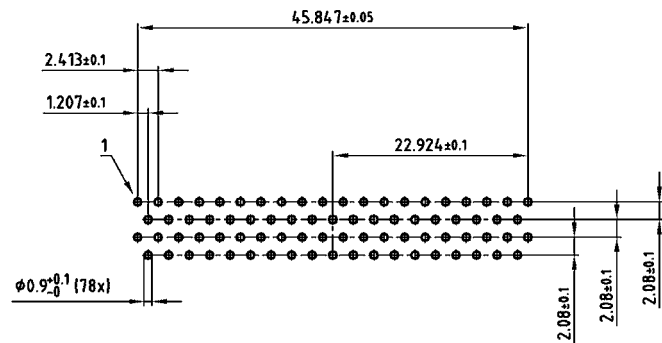
62 POS.



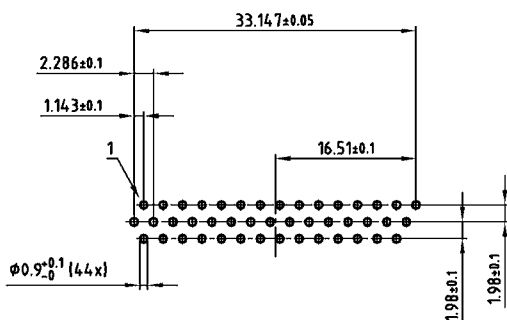
26 POS.



78 POS.



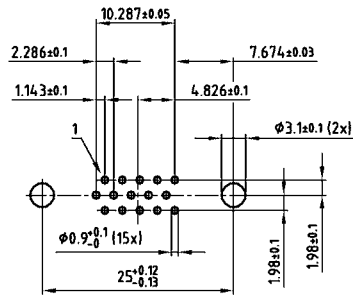
44 POS.



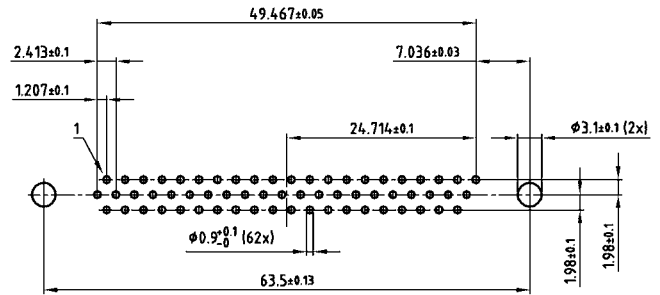
# PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, straight – With rear spacer PCB clip – Plug connector

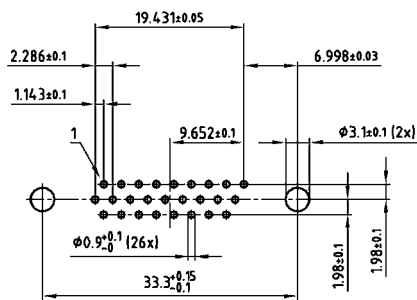
15 pos.



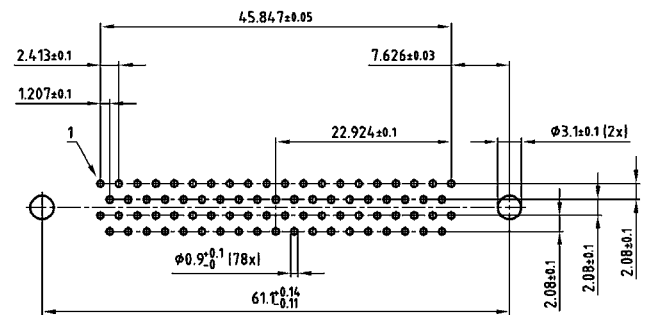
62 pos.



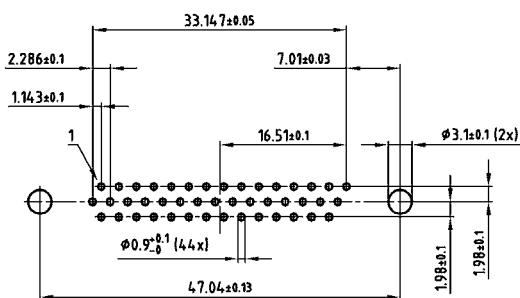
26 pos.



78 pos.



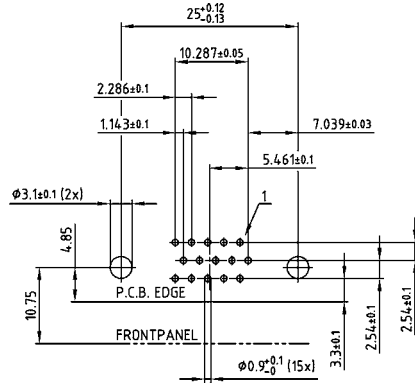
44 pos.



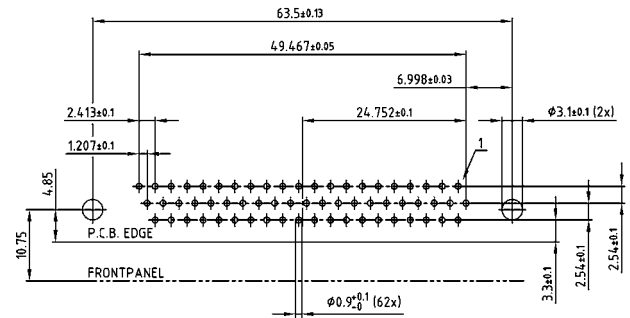
# PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, angled, .220" / 5.6 mm – Socket connector

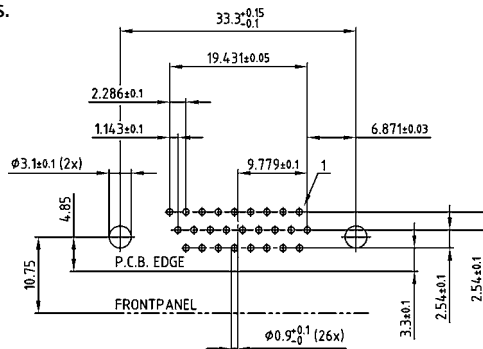
15 pos.



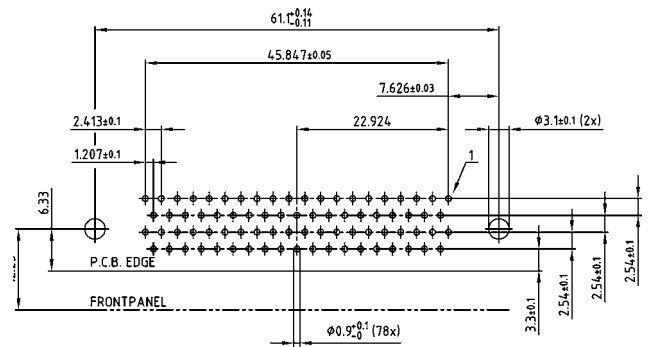
62 pos.



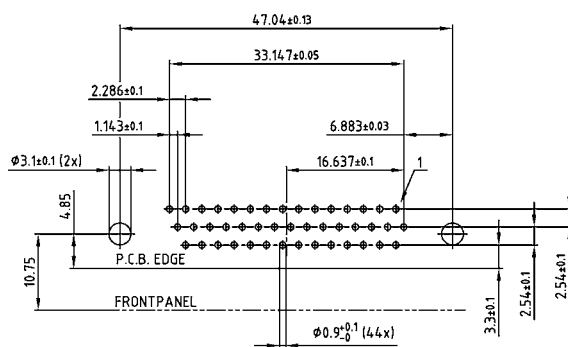
26 pos.



78 pos.



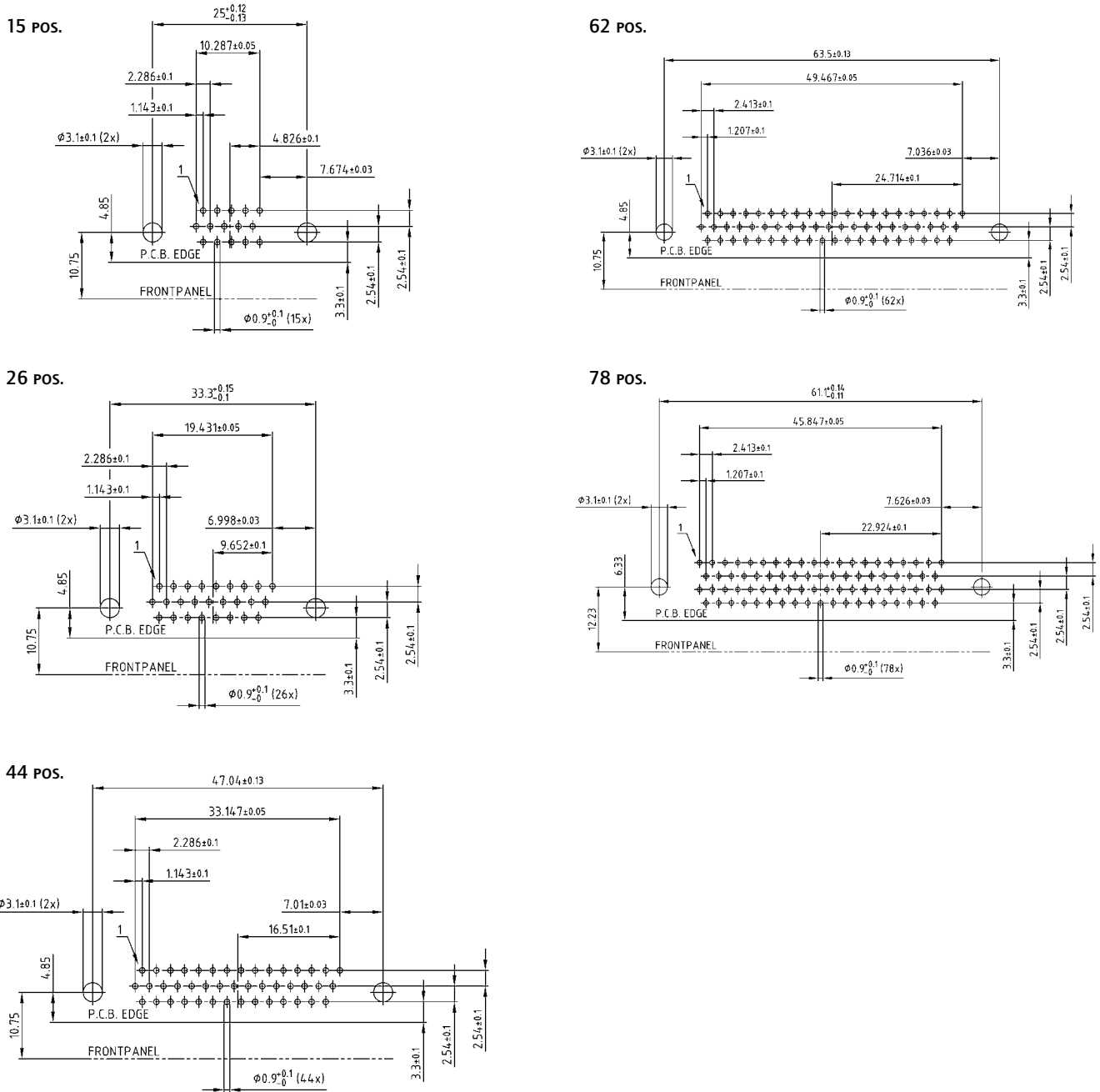
44 pos.



PCB layout Kat1kGVA (View: component side)

# PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, angled, .220" / 5.6 mm – Plug connector

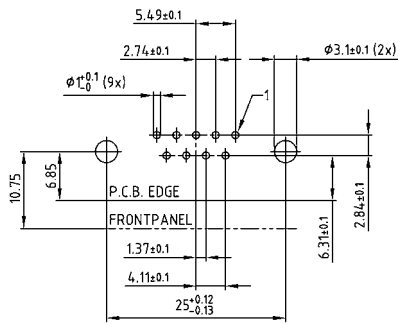


PCB layout Kat1 kGWA (View: component side)

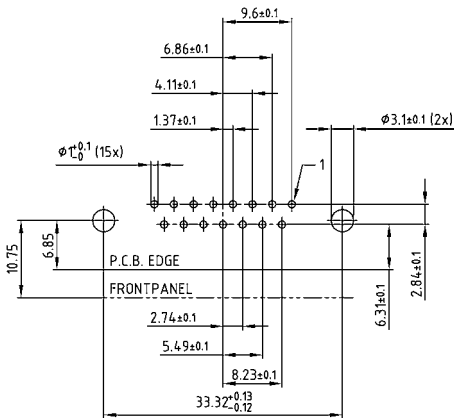
# PCB LAYOUT D-SUB SOLID BODY

Solder pin, angled, .402" / 10.2 mm – Socket connector

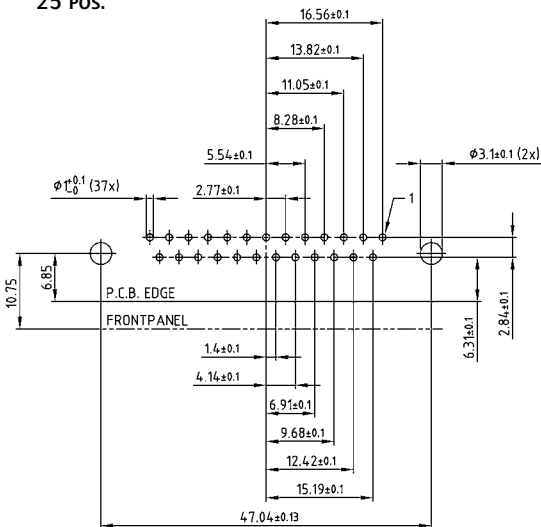
9 pos.



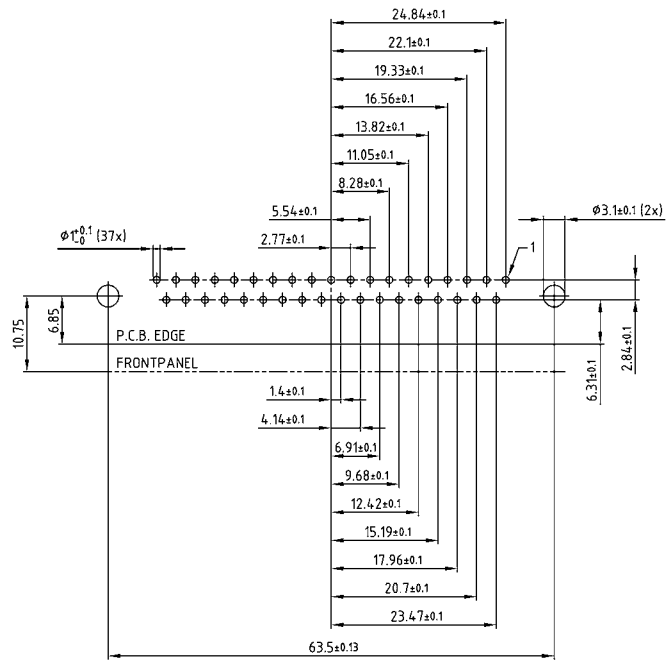
15 pos.



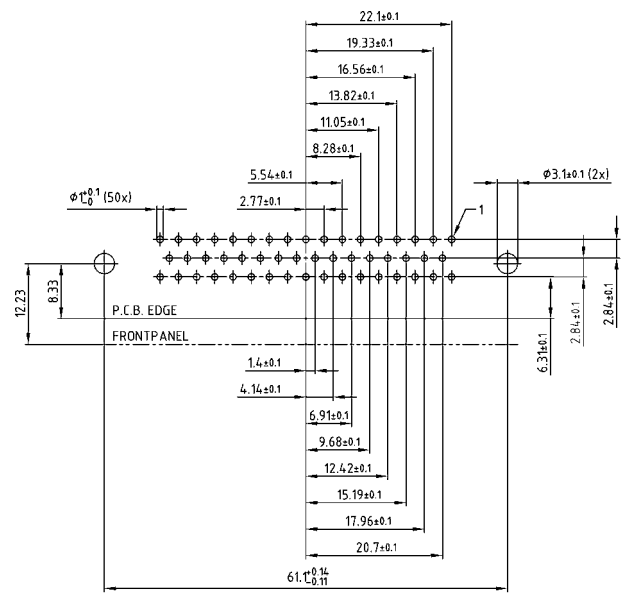
25 pos.



37 pos.



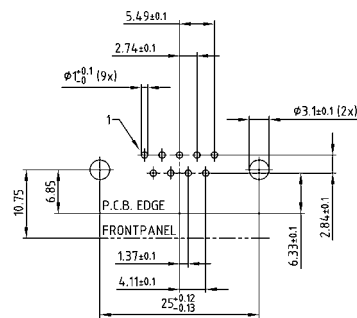
50 pos.



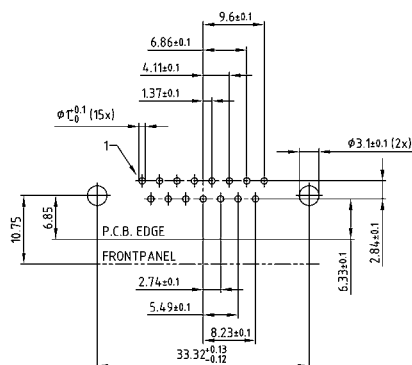
# PCB LAYOUT D-SUB SOLID BODY

Solder pin, angled, .402" / 10.2 mm – Plug connector

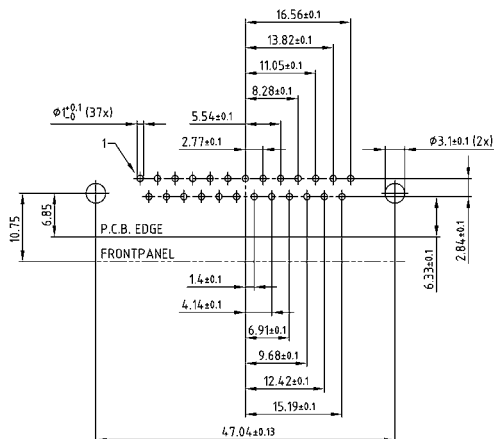
9 POS.



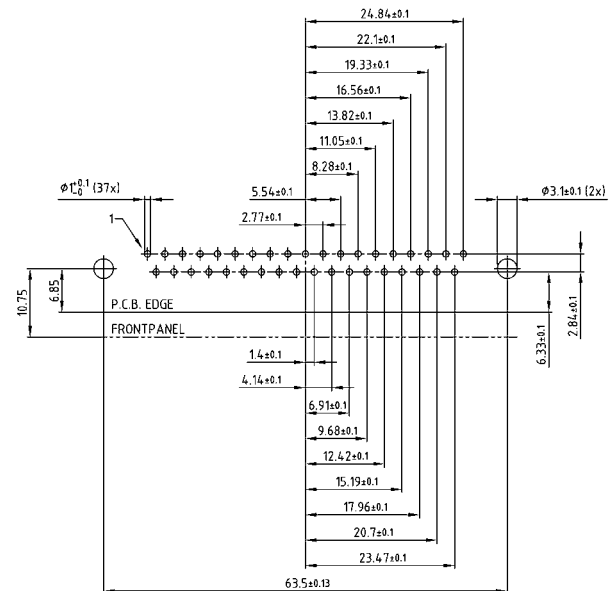
15 POS.



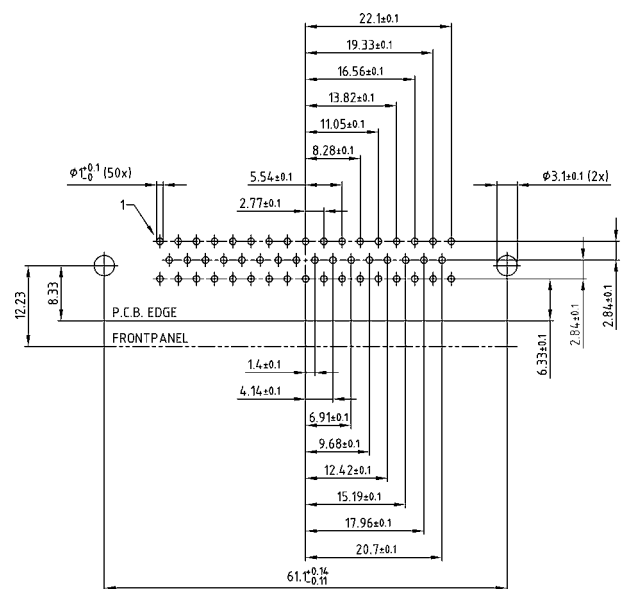
25 POS.



37 POS.



50 POS.

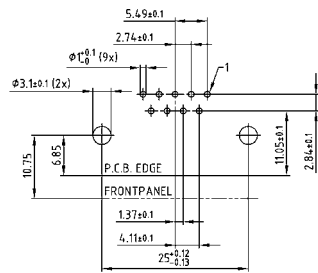


PCB layout Kat1kGNA (View: component side)

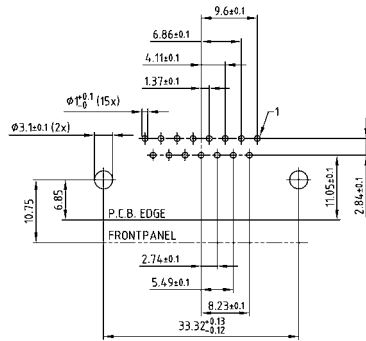
# PCB LAYOUT D-SUB SOLID BODY

Solder pin, angled, .587" / 14.9 mm – Socket connector

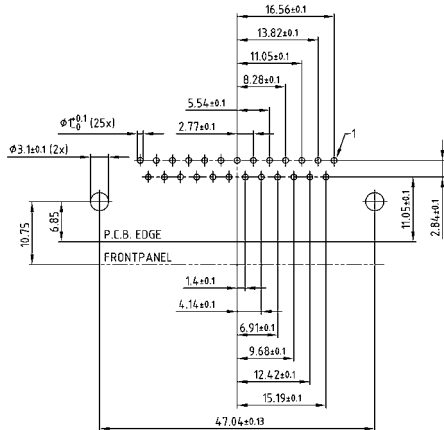
9 pos.



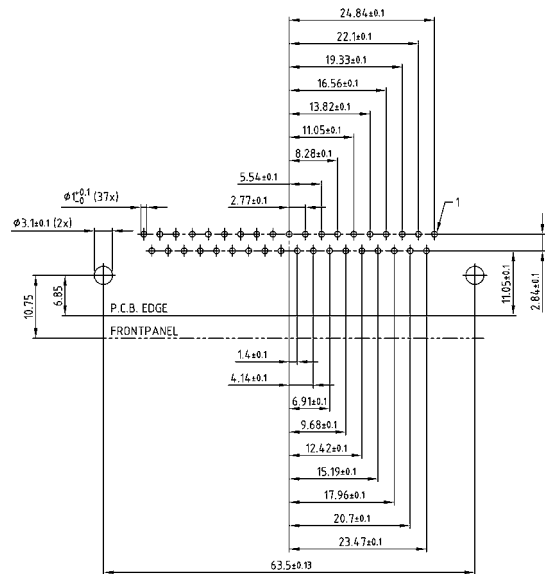
15 pos.



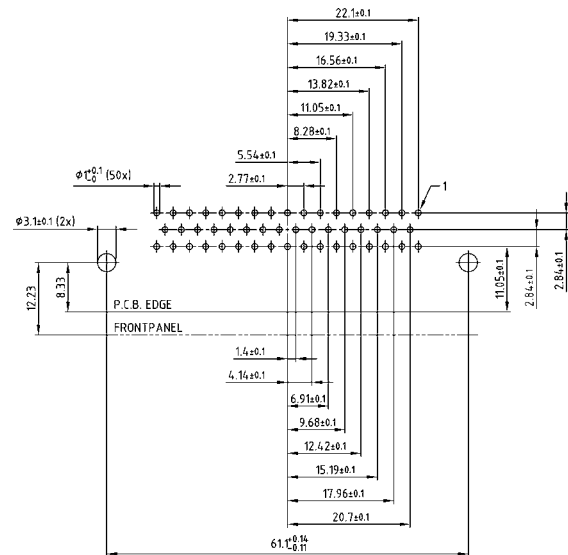
25 pos.



37 pos.



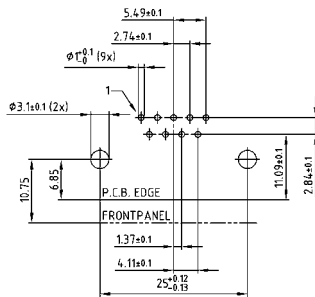
37 pos.



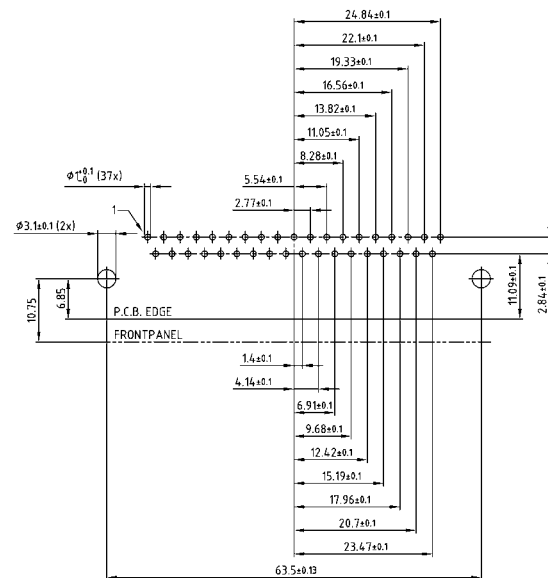
# PCB LAYOUT D-SUB SOLID BODY

Solder pin, angled, .587" / 14.9 mm – Plug connector

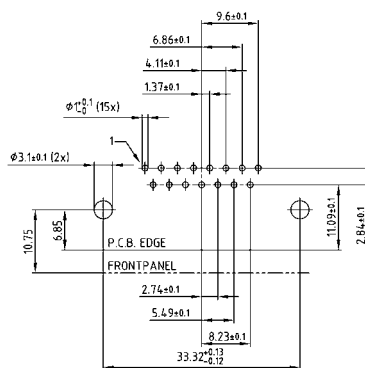
9 pos.



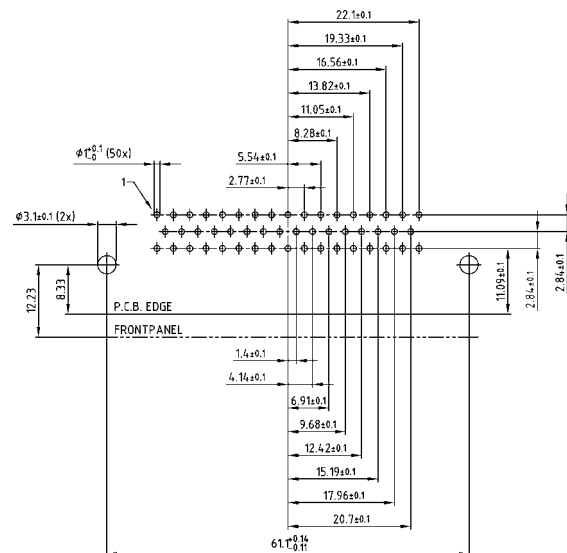
37 pos.



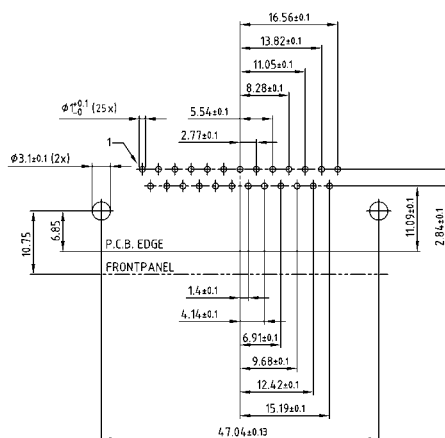
15 pos.



50 pos.



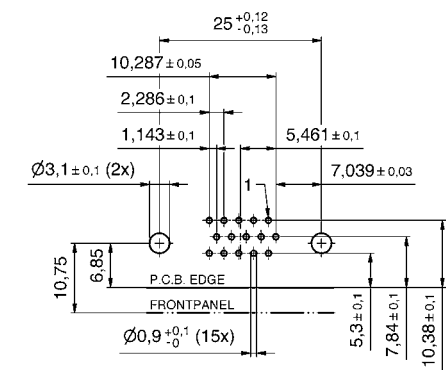
25 pos.



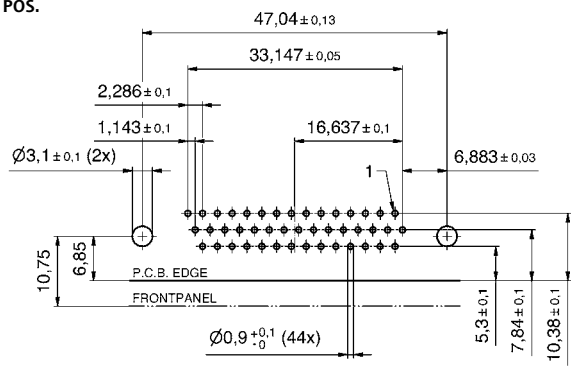
# PCB LAYOUT D-SUB HIGH DENSITY SOLID BODY

Solder pin, angled, .484" / 12.3 mm – Socket connector

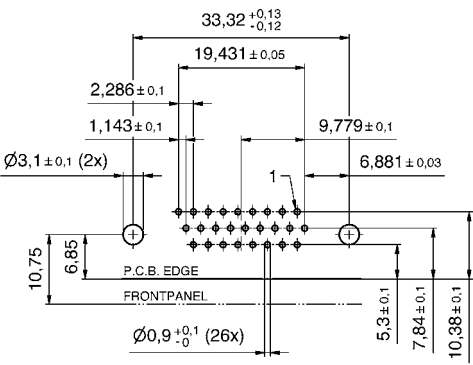
15 pos.



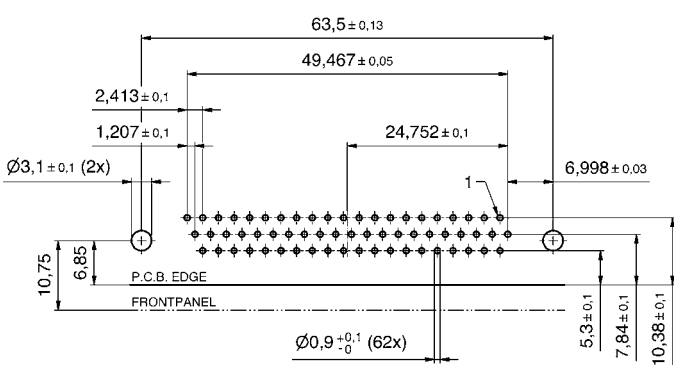
44 pos.



26 pos.



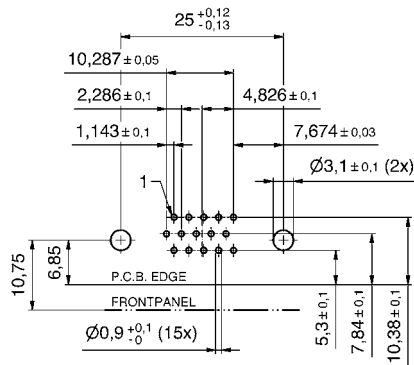
62 pos.



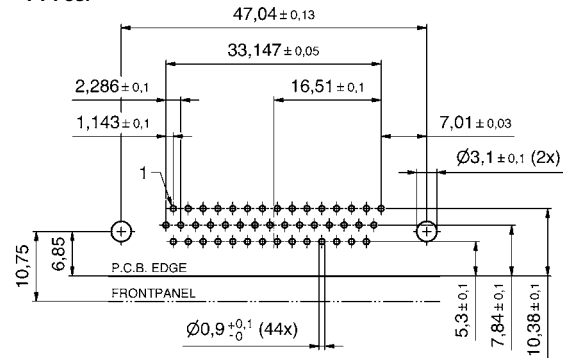
# PCB LAYOUT D-SUB HIGH DENSITY SOLID BODY

Solder pin, angled, .484" / 12.3 mm – Plug connector

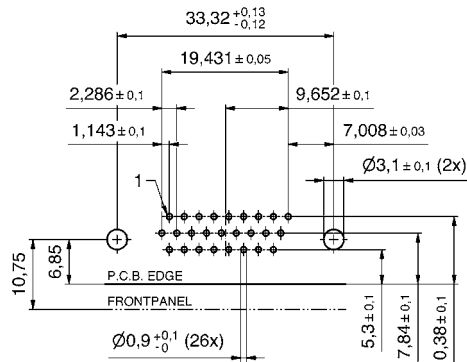
15 POS.



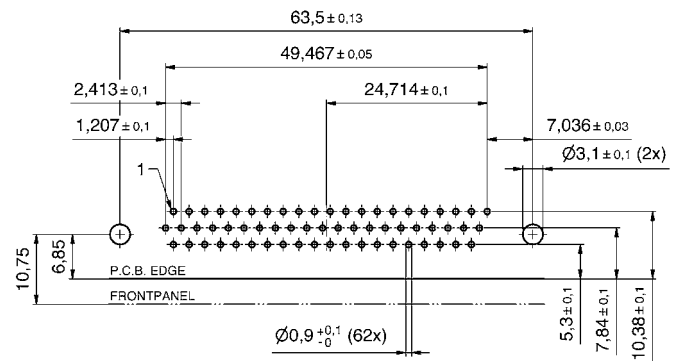
44 POS.



26 POS.



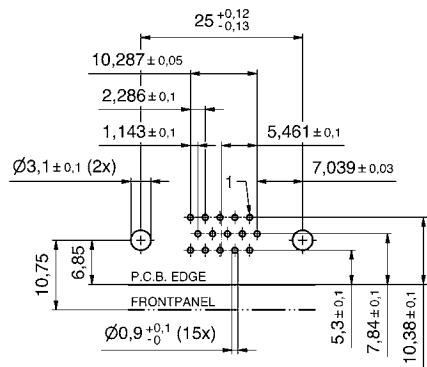
62 POS.



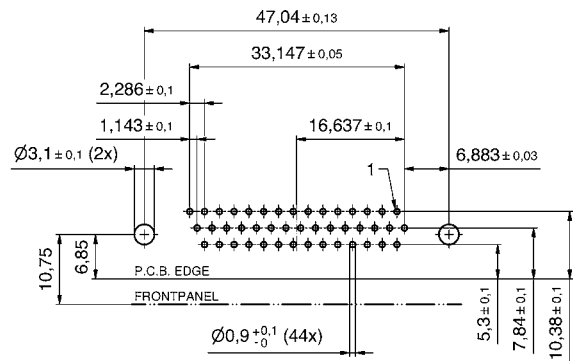
# PCB LAYOUT D-SUB HIGH DENSITY SOLID BODY

Solder pin, angled, .362" / 9,2 mm – Socket connector

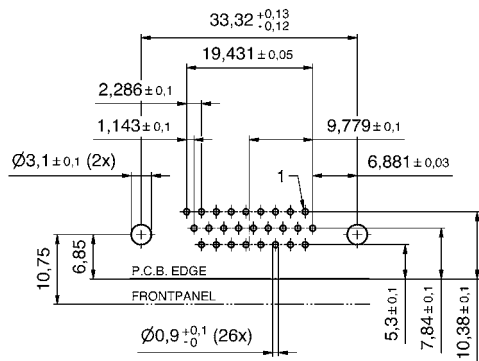
15 POS.



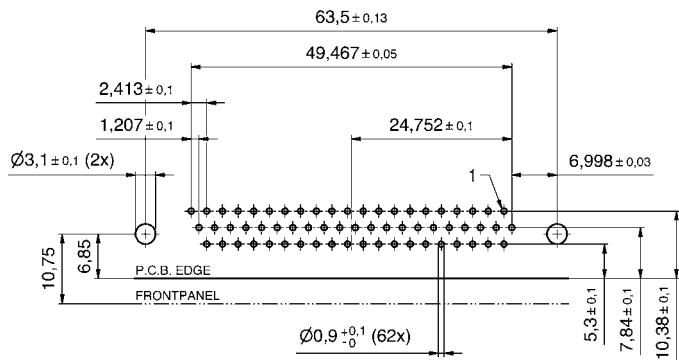
44 POS.



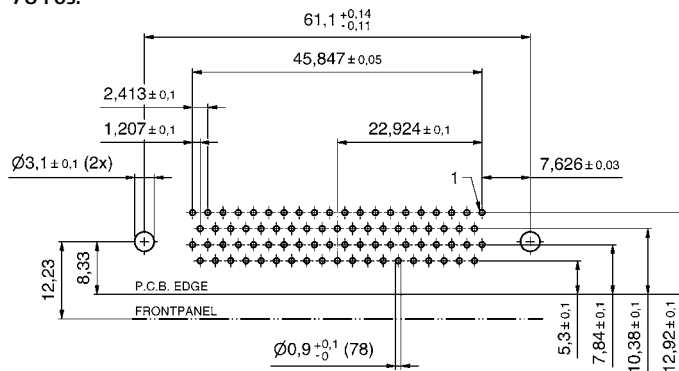
26 POS.



62 POS.



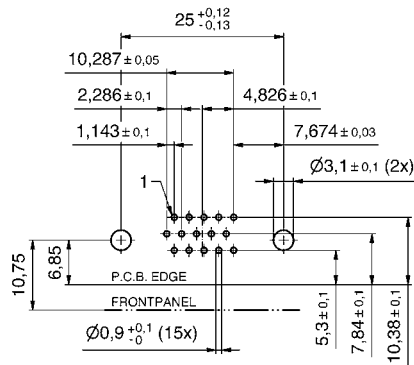
78 POS.



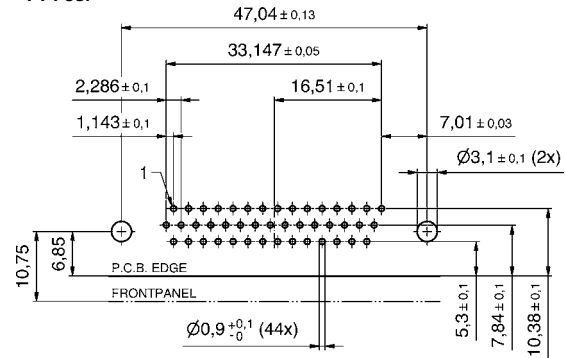
# PCB LAYOUT D-SUB HIGH DENSITY SOLID BODY

Solder pin, angled, .362" / 9,2 mm – Plug connector

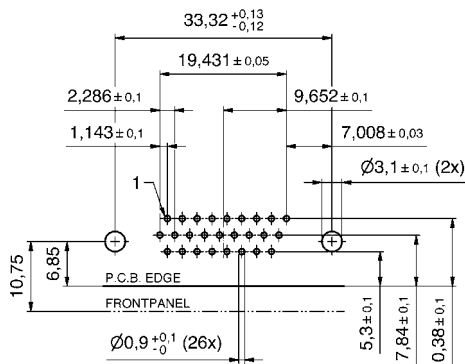
15 POS.



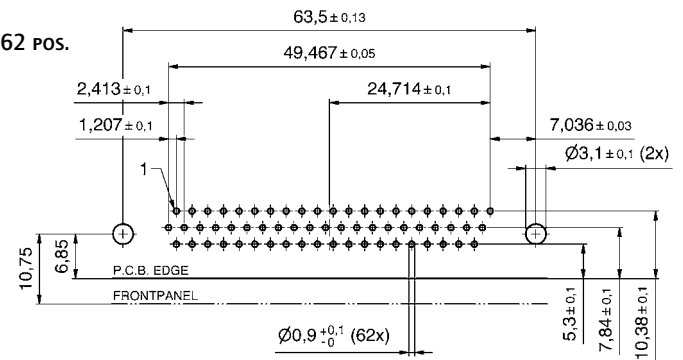
44 POS.



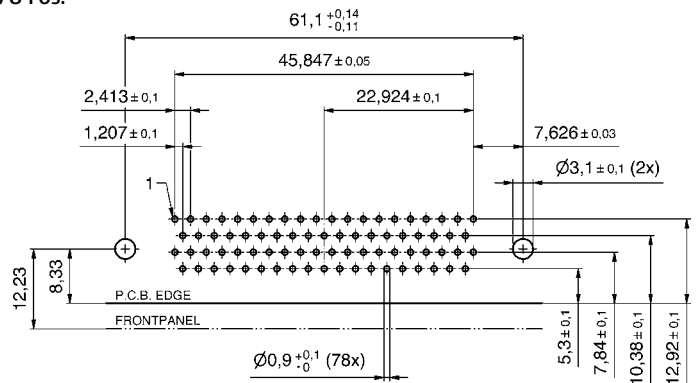
26 POS.



62 POS.



78 POS.



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| <a href="#"><u>6HDD44SAM99B70X</u></a> | <a href="#"><u>6STD50PCT99S40X</u></a> | <a href="#"><u>6STD15SCT99B30X</u></a> | <a href="#"><u>6STD25PAM99B71X</u></a> | <a href="#"><u>6STD50SAM99B20X</u></a> |
| <a href="#"><u>6STF15SAM03B30X</u></a> | <a href="#"><u>6HDD44SAR99B30X</u></a> | <a href="#"><u>8HDD62SCM99B70X</u></a> | <a href="#"><u>6STD37PCT99S20X</u></a> |                                        |