IN2CONNECT
ELECTRONIC CONNECTORS

Section 1

D-Subminiature Connectors

CONEC D-Subminiature connector dimensions conform to IEC 60807-2 (formerly DIN 41652) or MIL-C-24308. These cable/device connectors each consist of a plug/jack mating pair which meets IEC Recommendation 48 B, deliverable in five standardized housing sizes with standard pole counts of 9, 15, 25, 37 and 50. In addition to this, we also have a high density series deliverable with pole counts of 15, 26, 44, 62 and 78.

These connectors are utilized in control, regulation and communications technology. The machined, precision contacts are hard-gold plated over a nickel barrier layer appropriate to the given application requirements.

The isolating body is made of polyester GF, self-extinguishing per UL 94 V0, and can also be adapted on an application-specific basis.

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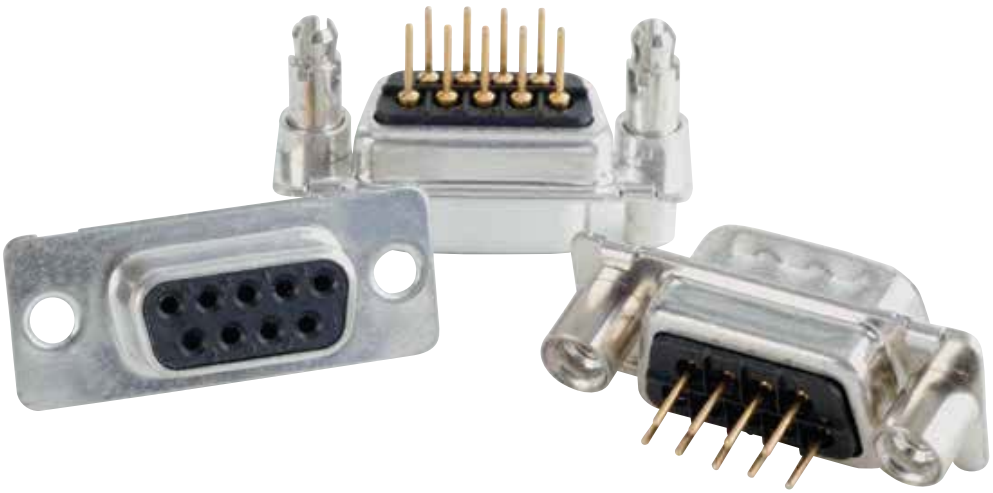
The trapezoid shaped housing (shell) provides mechanical protection, electrical shielding and ensures proper plug-in alignment. CONEC connectors are compatible with industry standards. Hoods and Backshells are configures for either straight or side cable entry.

An extensive assortment consisting of protective caps, hard ware and latches can be supplied.

Need a custom design? Please contact us.



D-SUB Standard

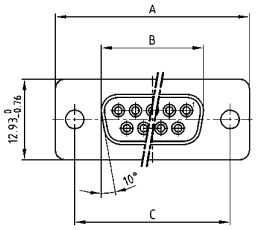
Solder cup – Precision machined contacts – For wire size AWG 20

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

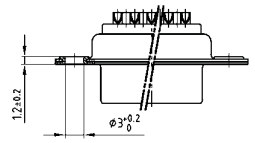
- Suitable for wire size **AWG 20**
- Mounting styles:
  - with through-hole, Ø .118" / 3 mm
  - with M3 or 4-40 UNC threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

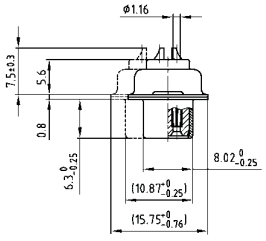
Socket connector



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

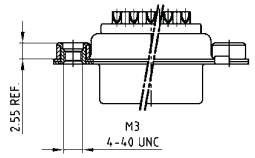
Mounting style: Through-hole



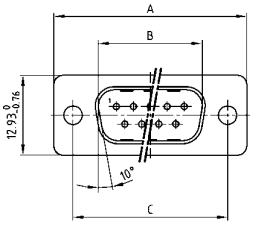


50 pos. = Dim. in (_ _)

Mounting style: Threaded insert

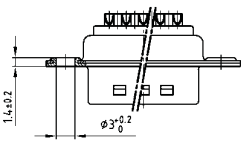


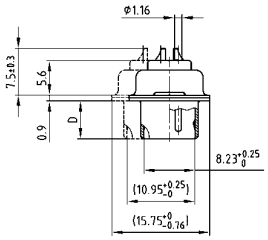
Plug connector



No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

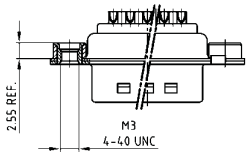
Mounting style: Through-hole





50 pos. = Dim. in (_ _)

Mounting style: Threaded insert



Order data

Socket connector

No. of pos.	Mounting style	Part Number
09	Through-hole	164A10019X
15	Through-hole	164A10029X
25	Through-hole	164A10039X
37	Through-hole	164A10049X
50	Through-hole	164A10059X
09	4-40 UNC Threaded insert	164A10219X
15	4-40 UNC Threaded insert	164A10229X
25	4-40 UNC Threaded insert	164A10239X
37	4-40 UNC Threaded insert	164A10249X
50	4-40 UNC Threaded insert	164A10259X
09	M3 Threaded insert	164A10269X
15	M3 Threaded insert	164A10279X
25	M3 Threaded insert	164A10289X
37	M3 Threaded insert	164A10299X
50	M3 Threaded insert	164A10309X

Plug connector

No. of pos.	Mounting style	Part Number
09	Through-hole	163A11069X
15	Through-hole	163A11079X
25	Through-hole	163A11089X
37	Through-hole	163A11099X
50	Through-hole	163A11109X
09	4-40 UNC Threaded insert	163A11269X
15	4-40 UNC Threaded insert	163A11279X
25	4-40 UNC Threaded insert	163A11289X
37	4-40 UNC Threaded insert	163A11299X
50	4-40 UNC Threaded insert	163A11309X
09	M3 Threaded insert	163A11319X
15	M3 Threaded insert	163A11329X
25	M3 Threaded insert	163A11339X
37	M3 Threaded insert	163A11349X
50	M3 Threaded insert	163A11359X

D-SUB Standard

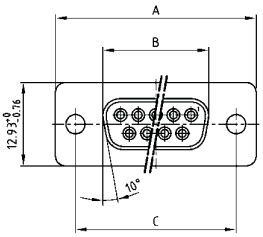
Solder cup – Stamped contacts – For wire size AWG 20

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

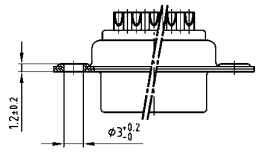
- Suitable for wire size **AWG 20**
- Mounting style:
  with through-hole, Ø .118" / 3 mm
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

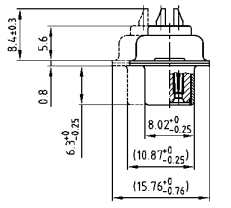
Socket connector



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

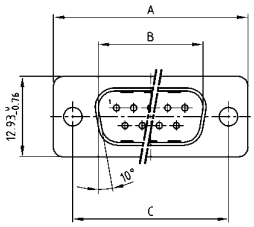
Mounting style: Through-hole





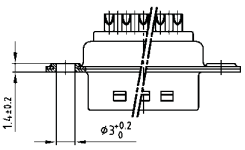
50 pos. = Dim. in (_ _)

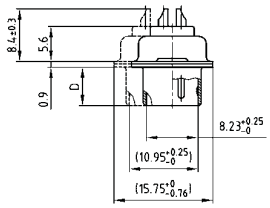
Plug connector



No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

Mounting style: Through-hole





50 pos. = Dim. in (_ _)

Order data

Socket connector

No. of pos.	Mounting style	Part Number
09	Through-hole	302A10019X
15	Through-hole	302A10029X
25	Through-hole	302A10059X
37	Through-hole	302A10069X
50	Through-hole	302A10079X

Plug connector

No. of pos.	Mounting style	Part Number
09	Through-hole	301A10019X
15	Through-hole	301A10029X
25	Through-hole	301A10059X
37	Through-hole	301A10069X
50	Through-hole	301A10079X

D-SUB Standard

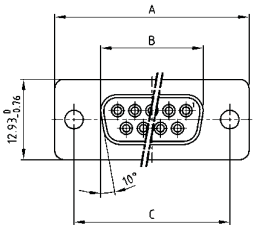
Solder pin – Straight – Precision machined contacts

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

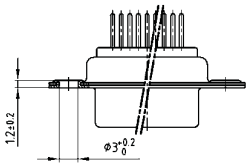
- Mounting styles:
  - with through-hole, Ø .118"/3 mm
  - with 4-40 UNC or M3 threaded insert
  - with 4-40 UNC or M3 threaded rear spacer
  - with 4-40 UNC or M3 front and threaded rear spacer
  - with 4-40 UNC front/M3 threaded rear spacer
  - with M3 front/4-40 UNC or M3 threaded rear spacer with PCB clip
  - with 4-40 UNC or M3 Front/Threaded rear spacer with PCB clip
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

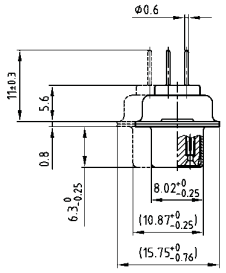
Socket connector



No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 −0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13
50	67.31	52.55	61.10 +0.14 −0.11

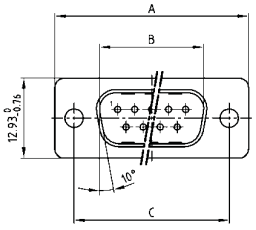
PCB-Layout: Kat1kFUA





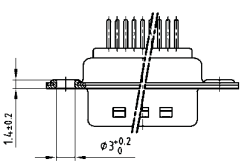
50 pos. = Dim. in (_ _)

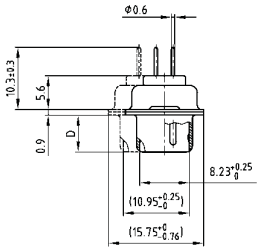
Plug connector



No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 −0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99
50	67.31	52.68	61.10 +0.14 −0.11	5.99

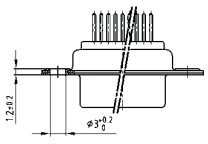
PCB-Layout: Kat1kFUA





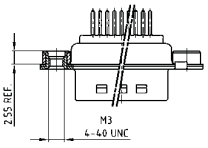
50 pos. = Dim. in (_ _)

Order data



Socket connector		
No. of pos.	Mounting style	Part Number
09	Through-hole	164A10069X
15	Through-hole	164A10079X
25	Through-hole	164A10089X
37	Through-hole	164A10099X
50	Through-hole	164A10109X

Plug connector		
No. of pos.	Mounting style	Part Number
09	Through-hole	163A11119X
15	Through-hole	163A11129X
25	Through-hole	163A11139X
37	Through-hole	163A11149X
50	Through-hole	163A11159X



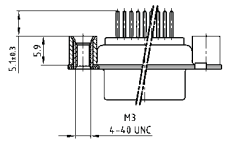
Socket connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	164A10319X
15	4-40 UNC Threaded insert	164A10329X
25	4-40 UNC Threaded insert	164A10339X
37	4-40 UNC Threaded insert	164A10349X
50	4-40 UNC Threaded insert	164A10359X
09	M3 Threaded insert	164A10369X
15	M3 Threaded insert	164A10379X
25	M3 Threaded insert	164A10389X
37	M3 Threaded insert	164A10399X
50	M3 Threaded insert	164A10409X

Plug connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	163A11369X
15	4-40 UNC Threaded insert	163A11379X
25	4-40 UNC Threaded insert	163A11389X
37	4-40 UNC Threaded insert	163A11399X
50	4-40 UNC Threaded insert	163A11409X
09	M3 Threaded insert	163A11419X
15	M3 Threaded insert	163A11429X
25	M3 Threaded insert	163A11439X
37	M3 Threaded insert	163A11449X
50	M3 Threaded insert	163A11459X

D-SUB Standard – Mounting styles

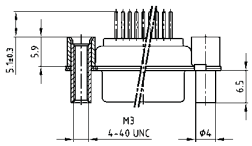
Solder pin – Straight – Precision machined contacts

Order data



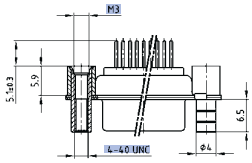
Socket connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded rear spacer	164A12029X
15	4-40 UNC Threaded rear spacer	164A12039X
25	4-40 UNC Threaded rear spacer	164A12049X
37	4-40 UNC Threaded rear spacer	164A12059X
50	4-40 UNC Threaded rear spacer	164A12069X
09	M3 Threaded rear spacer	164A12079X
15	M3 Threaded rear spacer	164A12089X
25	M3 Threaded rear spacer	164A12099X
37	M3 Threaded rear spacer	164A12109X
50	M3 Threaded rear spacer	164A12119X

Plug connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded rear spacer	163A13629X
15	4-40 UNC Threaded rear spacer	163A13639X
25	4-40 UNC Threaded rear spacer	163A13649X
37	4-40 UNC Threaded rear spacer	163A13659X
50	4-40 UNC Threaded rear spacer	163A13669X
09	M3 Threaded rear spacer	163A13679X
15	M3 Threaded rear spacer	163A13689X
25	M3 Threaded rear spacer	163A13699X
37	M3 Threaded rear spacer	163A13709X
50	M3 Threaded rear spacer	163A13719X



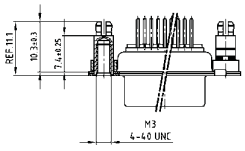
Socket connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front/Threaded rear spacer	164A12129X
15	4-40 UNC Front/Threaded rear spacer	164A12139X
25	4-40 UNC Front/Threaded rear spacer	164A12149X
37	4-40 UNC Front/Threaded rear spacer	164A12159X
50	4-40 UNC Front/Threaded rear spacer	164A12169X
09	M3 Front/Threaded rear spacer	164A12179X
15	M3 Front/Threaded rear spacer	164A12189X
25	M3 Front/Threaded rear spacer	164A12199X
37	M3 Front/Threaded rear spacer	164A12209X
50	M3 Front/Threaded rear spacer	164A12219X

Plug connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front/Threaded rear spacer	163A13729X
15	4-40 UNC Front/Threaded rear spacer	163A13739X
25	4-40 UNC Front/Threaded rear spacer	163A13749X
37	4-40 UNC Front/Threaded rear spacer	163A13759X
50	4-40 UNC Front/Threaded rear spacer	163A13769X
09	M3 Front/Threaded rear spacer	163A13779X
15	M3 Front/Threaded rear spacer	163A13789X
25	M3 Front/Threaded rear spacer	163A13799X
37	M3 Front/Threaded rear spacer	163A13809X
50	M3 Front/Threaded rear spacer	163A13819X



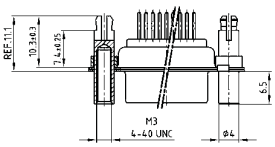
Socket connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front /M3 Threaded rear spacer	164A12919X
15	4-40 UNC Front /M3 Threaded rear spacer	164A12929X
25	4-40 UNC Front /M3 Threaded rear spacer	164A12939X
37	4-40 UNC Front /M3 Threaded rear spacer	164A12949X
50	4-40 UNC Front /M3 Threaded rear spacer	164A12959X

Plug connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front /M3 Threaded rear spacer	163A14439X
15	4-40 UNC Front /M3 Threaded rear spacer	163A14449X
25	4-40 UNC Front /M3 Threaded rear spacer	163A14459X
37	4-40 UNC Front /M3 Threaded rear spacer	163A14469X
50	4-40 UNC Front /M3 Threaded rear spacer	163A14479X



Socket connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded rear spacer PCB clip	164A16569X
15	4-40 UNC Threaded rear spacer PCB clip	164A16579X
25	4-40 UNC Threaded rear spacer PCB clip	164A16589X
37	4-40 UNC Threaded rear spacer PCB clip	164A16599X
50	4-40 UNC Threaded rear spacer PCB clip	164A16609X
09	M3 Threaded rear spacer PCB clip	164A16619X
15	M3 Threaded rear spacer PCB clip	164A16629X
25	M3 Threaded rear spacer PCB clip	164A16639X
37	M3 Threaded rear spacer PCB clip	164A16649X
50	M3 Threaded rear spacer PCB clip	164A16659X

Plug connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded rear spacer PCB clip	163A16159X
15	4-40 UNC Threaded rear spacer PCB clip	163A16169X
25	4-40 UNC Threaded rear spacer PCB clip	163A16179X
37	4-40 UNC Threaded rear spacer PCB clip	163A16189X
50	4-40 UNC Threaded rear spacer PCB clip	163A16199X
09	M3 Threaded rear spacer PCB clip	163A16209X
15	M3 Threaded rear spacer PCB clip	163A16219X
25	M3 Threaded rear spacer PCB clip	163A16229X
37	M3 Threaded rear spacer PCB clip	163A16239X
50	M3 Threaded rear spacer PCB clip	163A16249X



Socket connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front/Threaded rear spacer PCB clip	164A16669X
15	4-40 UNC Front/Threaded rear spacer PCB clip	164A16679X
25	4-40 UNC Front/Threaded rear spacer PCB clip	164A16689X
37	4-40 UNC Front/Threaded rear spacer PCB clip	164A16699X
50	4-40 UNC Front/Threaded rear spacer PCB clip	164A16709X
09	M3 Front/Threaded rear spacer PCB clip	164A16719X
15	M3 Front/Threaded rear spacer PCB clip	164A16729X
25	M3 Front/Threaded rear spacer PCB clip	164A16739X
37	M3 Front/Threaded rear spacer PCB clip	164A16749X
50	M3 Front/Threaded rear spacer PCB clip	164A16759X

Plug connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front/Threaded rear spacer PCB clip	163A16259X
15	4-40 UNC Front/Threaded rear spacer PCB clip	163A16269X
25	4-40 UNC Front/Threaded rear spacer PCB clip	163A16279X
37	4-40 UNC Front/Threaded rear spacer PCB clip	163A16289X
50	4-40 UNC Front/Threaded rear spacer PCB clip	163A16299X
09	M3 Front/Threaded rear spacer PCB clip	163A16309X
15	M3 Front/Threaded rear spacer PCB clip	163A16319X
25	M3 Front/Threaded rear spacer PCB clip	163A16329X
37	M3 Front/Threaded rear spacer PCB clip	163A16339X
50	M3 Front/Threaded rear spacer PCB clip	163A16349X

PCB clip for .126" / 3.2 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness.

PCB-Layout: Kat1kFUA

PCB-Layout: Kat1kFUA

D-SUB Standard

Solder pin – Straight – Stamped contacts

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

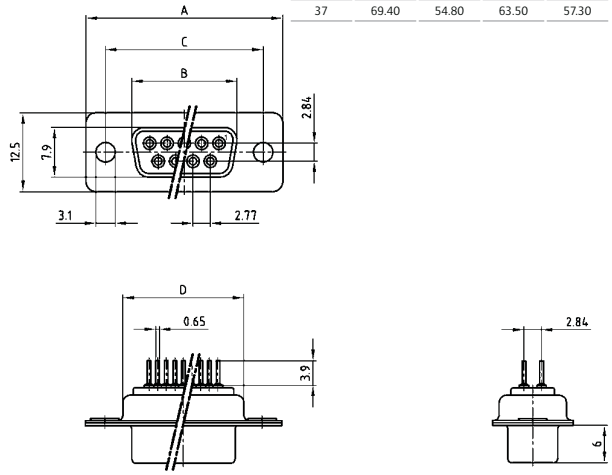
Description

- Mounting styles:
  - with through-hole, Ø .118" / 3 mm
  - with 4-40 UNC threaded insert
  - with 4-40 UNC threaded rear spacer
  - with 4-40 UNC threaded rear spacer with PCB clip
  - with 4-40 UNC front and threaded rear spacer with PCB clip
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

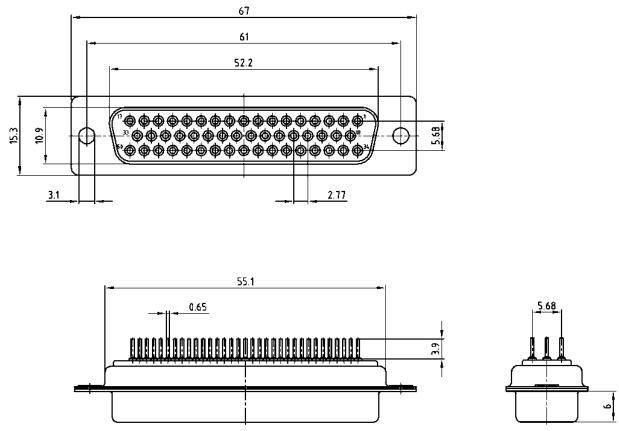
Socket connector

9-37 pos.

No. of pos.	A	B	C	D
09	30.80	16.30	25.00	19.20
15	39.20	24.60	33.30	27.70
25	53.10	38.30	47.04	41.10
37	69.40	54.80	63.50	57.30



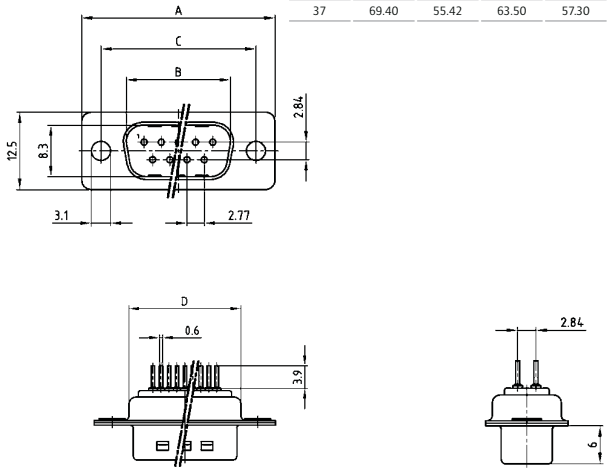
50 pos.



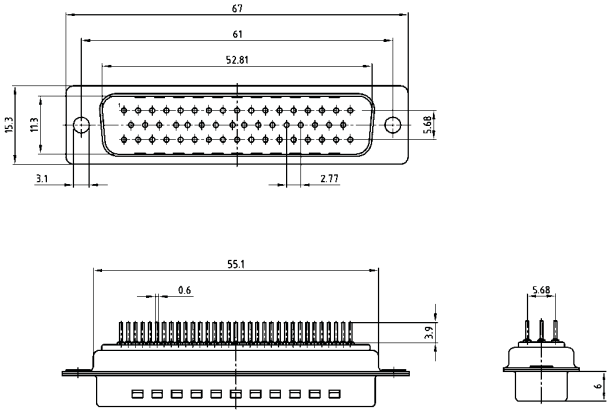
Plug connector

9-37 pos.

No. of pos.	A	B	C	D
09	30.80	16.92	25.00	19.20
15	39.20	25.25	33.30	27.70
25	53.10	38.96	47.04	41.10
37	69.40	55.42	63.50	57.30



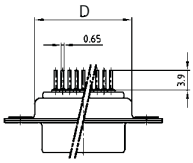
50 pos.



D-SUB Standard – Mounting styles

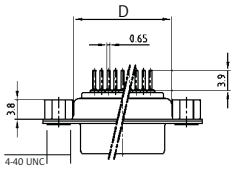
Solder pin – Straight – Stamped contacts

Order data



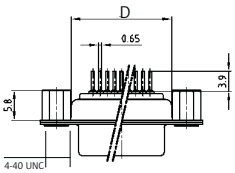
Socket connector		
No. of pos.	Mounting style	Part Number
09	Through-hole	DLS1XS4AD01X
15	Through-hole	DLS2XS4AD01X
25	Through-hole	DLS3XS4AD01X
37	Through-hole	DLS4XS4AD01X
50	Through-hole	DLS5XS4AD01X

Plug connector		
No. of pos.	Mounting style	Part Number
09	Through-hole	DLS1XP4AD01X
15	Through-hole	DLS2XP4AD01X
25	Through-hole	DLS3XP4AD01X
37	Through-hole	DLS4XP4AD01X
50	Through-hole	DLS5XP4AD01X



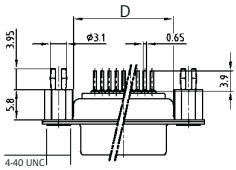
Socket connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	DLS1XS4AG06X
15	Threaded insert	DLS2XS4AG06X
25	Threaded insert	DLS3XS4AG06X
37	Threaded insert	DLS4XS4AG06X
50	Threaded insert	DLS5XS4AG06X

Plug connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	DLS1XP4AG06X
15	Threaded insert	DLS2XP4AG06X
25	Threaded insert	DLS3XP4AG06X
37	Threaded insert	DLS4XP4AG06X
50	Threaded insert	DLS5XP4AG06X



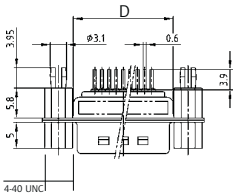
Socket connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer	DLS1XS4AA37X
15	Threaded rear spacer	DLS2XS4AA37X
25	Threaded rear spacer	DLS3XS4AA37X
37	Threaded rear spacer	DLS4XS4AA37X
50	Threaded rear spacer	DLS5XS4AA37X

Plug connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer	DLS1XP4AA37X
15	Threaded rear spacer	DLS2XP4AA37X
25	Threaded rear spacer	DLS3XP4AA37X
37	Threaded rear spacer	DLS4XP4AA37X
50	Threaded rear spacer	DLS5XP4AA37X



Socket connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer PCB clip	DLS1XS4AA35X
15	Threaded rear spacer PCB clip	DLS2XS4AA35X
25	Threaded rear spacer PCB clip	DLS3XS4AA35X
37	Threaded rear spacer PCB clip	DLS4XS4AA35X
50	Threaded rear spacer PCB clip	DLS5XS4AA35X

Plug connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer PCB clip	DLS1XP4AA35X
15	Threaded rear spacer PCB clip	DLS2XP4AA35X
25	Threaded rear spacer PCB clip	DLS3XP4AA35X
37	Threaded rear spacer PCB clip	DLS4XP4AA35X
50	Threaded rear spacer PCB clip	DLS5XP4AA35X



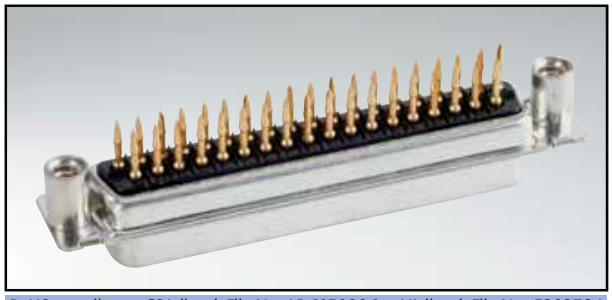
Socket connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front/Threaded rear spacer PCB clip	DLS1XS4AA39X
15	Front/Threaded rear spacer PCB clip	DLS2XS4AA39X
25	Front/Threaded rear spacer PCB clip	DLS3XS4AA39X
37	Front/Threaded rear spacer PCB clip	DLS4XS4AA39X
50	Front/Threaded rear spacer PCB clip	DLS5XS4AA39X

Plug connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front/Threaded rear spacer PCB clip	DLS1XP4AA39X
15	Front/Threaded rear spacer PCB clip	DLS2XP4AA39X
25	Front/Threaded rear spacer PCB clip	DLS3XP4AA39X
37	Front/Threaded rear spacer PCB clip	DLS4XP4AA39X
50	Front/Threaded rear spacer PCB clip	DLS5XP4AA39X

PCB clip for .126" / 3.2 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness.

D-SUB Standard

Press-fit contact – Straight – Precision machined contacts

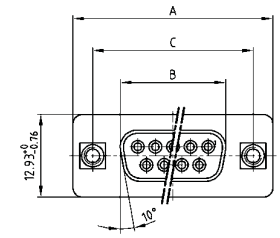


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

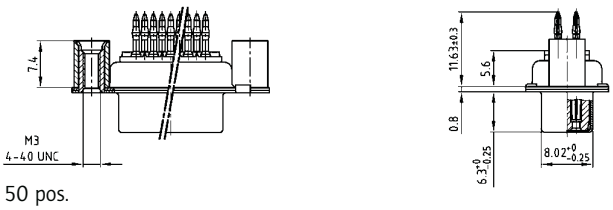
- Mounting style:
  with M3 or 4-40 UNC threaded rear spacer
- For .040" / 1.0 mm $^{+\ .003"/0.09\ mm}_{-\ .002"/0.06\ mm}$ finished through-hole diameter
  Refer to product drawing for details
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)
- Order press-fit tool separately

Socket connector

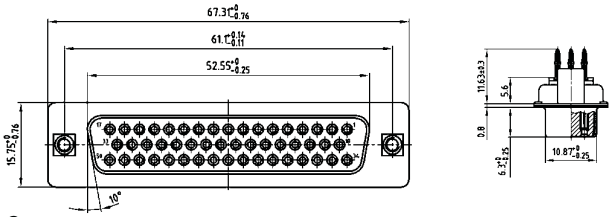


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

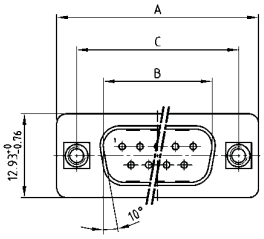
9-37 pos.



50 pos.

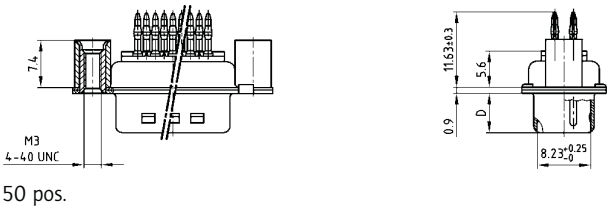


Plug connector

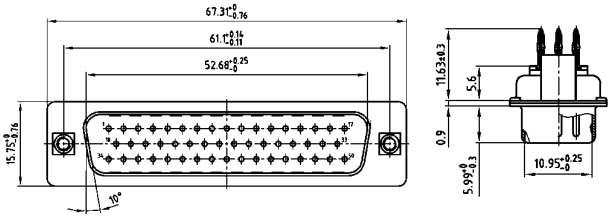


No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

9-37 pos.



50 pos.



Order data

Socket connector

No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded rear spacer	DSS1XSFAA49X
15	4-40 UNC Threaded rear spacer	DSS2XSFAA49X
25	4-40 UNC Threaded rear spacer	DSS3XSFAA49X
37	4-40 UNC Threaded rear spacer	DSS4XSFAA49X
50	4-40 UNC Threaded rear spacer	DSS5XSFAA49X
09	M3 Threaded rear spacer	DSS1XSFAA50X
15	M3 Threaded rear spacer	DSS2XSFAA50X
25	M3 Threaded rear spacer	DSS3XSFAA50X
37	M3 Threaded rear spacer	DSS4XSFAA50X
50	M3 Threaded rear spacer	DSS5XSFAA50X

Plug connector

No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded rear spacer	DSS1XPFAA49X
15	4-40 UNC Threaded rear spacer	DSS2XPFAA49X
25	4-40 UNC Threaded rear spacer	DSS3XPFAA49X
37	4-40 UNC Threaded rear spacer	DSS4XPFAA49X
50	4-40 UNC Threaded rear spacer	DSS5XPFAA49X
09	M3 Threaded rear spacer	DSS1XPFAA50X
15	M3 Threaded rear spacer	DSS2XPFAA50X
25	M3 Threaded rear spacer	DSS3XPFAA50X
37	M3 Threaded rear spacer	DSS4XPFAA50X
50	M3 Threaded rear spacer	DSS5XPFAA50X

D-SUB Standard

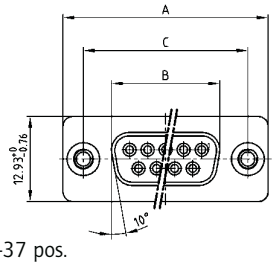
Press-fit contact – Straight – Precision machined contacts – Rear press-fit spacer

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

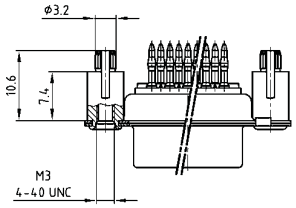
- Mounting style:
  with M3 or 4-40 UNC rear press-fit spacer
- For .040" / 1.0 mm $^{+\ .003"/0.09\ mm}_{-\ .002"/0.06\ mm}$ finished through-hole diameter
  Refer to product drawing for details
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)
- Order press-fit tool separately

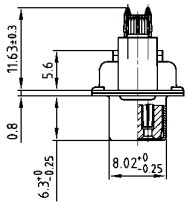
Socket connector



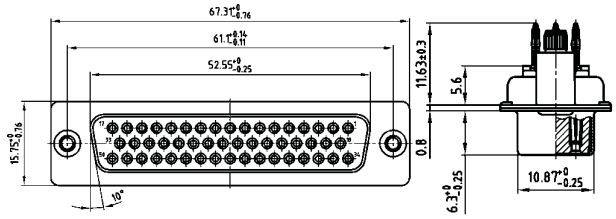
No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 −0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

9-37 pos.

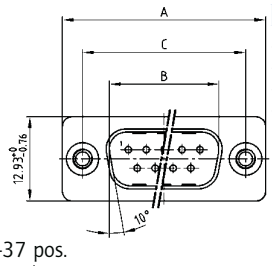




50 pos.

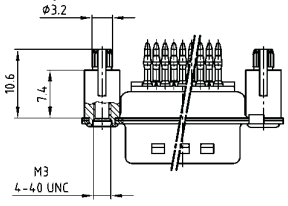


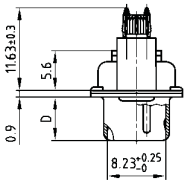
Plug connector



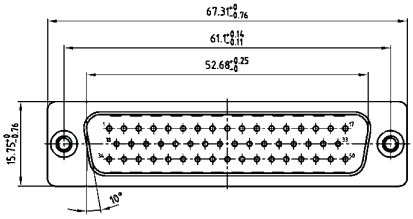
No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 −0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

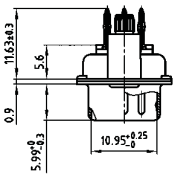
9-37 pos.





50 pos.





Order data

Socket connector

No. of pos.	Mounting style	Part Number
09	4-40 UNC Rear press-fit spacer	DSS1XSFAA54X
15	4-40 UNC Rear press-fit spacer	DSS2XSFAA54X
25	4-40 UNC Rear press-fit spacer	DSS3XSFAA54X
37	4-40 UNC Rear press-fit spacer	DSS4XSFAA54X
50	4-40 UNC Rear press-fit spacer	DSS5XSFAA54X
09	M3 Rear press-fit spacer	DSS1XSFAA53X
15	M3 Rear press-fit spacer	DSS2XSFAA53X
25	M3 Rear press-fit spacer	DSS3XSFAA53X
37	M3 Rear press-fit spacer	DSS4XSFAA53X
50	M3 Rear press-fit spacer	DSS5XSFAA53X

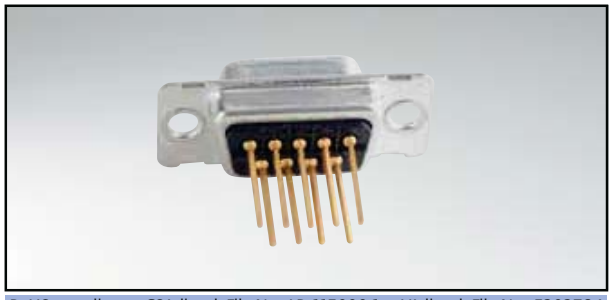
Plug connector

No. of pos.	Mounting style	Part Number
09	4-40 UNC Rear press-fit spacer	DSS1XPFAA54X
15	4-40 UNC Rear press-fit spacer	DSS2XPFAA54X
25	4-40 UNC Rear press-fit spacer	DSS3XPFAA54X
37	4-40 UNC Rear press-fit spacer	DSS4XPFAA54X
50	4-40 UNC Rear press-fit spacer	DSS5XPFAA54X
09	M3 Rear press-fit spacer	DSS1XPFAA53X
15	M3 Rear press-fit spacer	DSS2XPFAA53X
25	M3 Rear press-fit spacer	DSS3XPFAA53X
37	M3 Rear press-fit spacer	DSS4XPFAA53X
50	M3 Rear press-fit spacer	DSS5XPFAA53X

Rear press-fit spacer for .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness.

D-SUB Standard

Wire wrap – Precision machined contacts

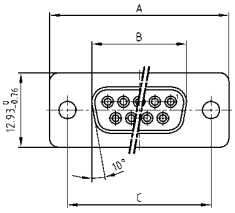


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

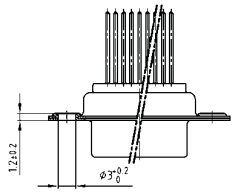
- Mounting styles:
  - with through-hole, Ø .118" / 3 mm
  - with 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

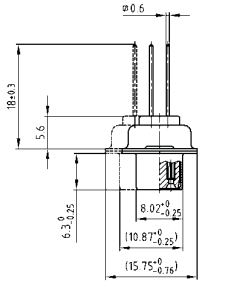
Socket connector



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

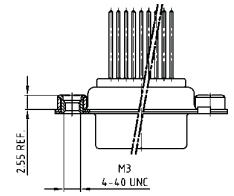
Mounting style: Through-hole



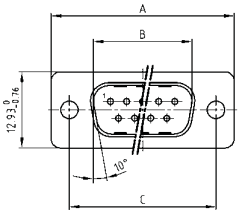


50 pos. = Dim. in (_ _)

Mounting style: Threaded insert

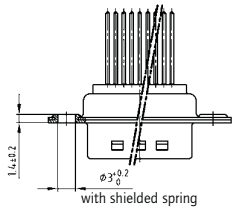


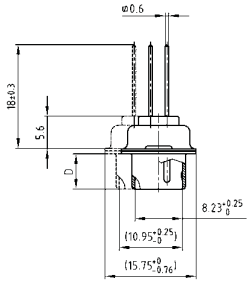
Plug connector



No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

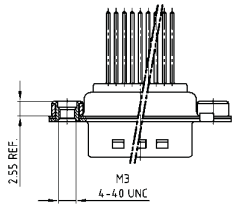
Mounting style: Through-hole





50 pos. = Dim. in (_ _)

Mounting style: Threaded insert



Order data

Socket connector

No. of pos.	Mounting style	Part Number
09	Through-hole	164A10119X
15	Through-hole	164A10129X
25	Through-hole	164A10139X
37	Through-hole	164A10149X
50	Through-hole	164A10159X
09	4-40 UNC Threaded insert	164A10419X
15	4-40 UNC Threaded insert	164A10429X
25	4-40 UNC Threaded insert	164A10439X
37	4-40 UNC Threaded insert	164A10449X
50	4-40 UNC Threaded insert	164A10459X
09	M3 Threaded insert	164A10469X
15	M3 Threaded insert	164A10479X
25	M3 Threaded insert	164A10489X
37	M3 Threaded insert	164A10499X
50	M3 Threaded insert	164A10509X

Plug connector

No. of pos.	Mounting style	Part Number
09	Through-hole	163A11169X
15	Through-hole	163A11179X
25	Through-hole	163A11189X
37	Through-hole	163A11199X
50	Through-hole	163A11209X
09	4-40 UNC Threaded insert	163A11469X
15	4-40 UNC Threaded insert	163A11479X
25	4-40 UNC Threaded insert	163A11489X
37	4-40 UNC Threaded insert	163A11499X
50	4-40 UNC Threaded insert	163A11509X
09	M3 Threaded insert	163A11519X
15	M3 Threaded insert	163A11529X
25	M3 Threaded insert	163A11539X
37	M3 Threaded insert	163A11549X
50	M3 Threaded insert	163A11559X

D-SUB Standard

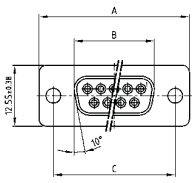
IDC for flat cable – Stamped contacts – For wire size AWG 26...28

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

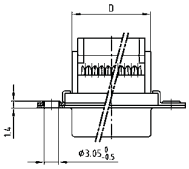
- For wire size **AWG 26...28** flat cable
- Mounting style:
  with through-hole, Ø .118" / 3 mm
  with 4-40 UNC threaded insert
- Connector includes strain relief
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

Socket connector

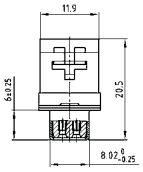


No. of pos.	A ±0.25	B ±0.25	C ±0.13	D ±0.25
09	30.80	16.46	25.00	16.10
15	39.10	24.79	33.30	24.00
25	53.09	38.50	47.04	38.14
37	69.40	54.96	63.50	54.60

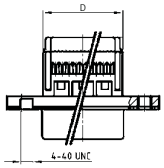
Mounting style: Through-hole



Upper part grouted with strain relief

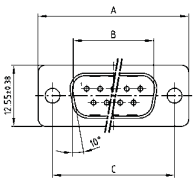


Mounting style: Threaded insert



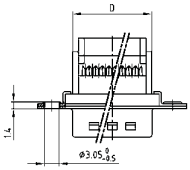
Strain relief

Plug connector

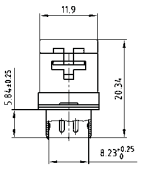


No. of pos.	A ±0.25	B ±0.25	C ±0.13	D ±0.25
09	30.80	16.79	25.00	16.10
15	39.10	25.12	33.30	24.00
25	53.09	83.84	47.04	38.14
37	69.40	55.30	63.50	54.60

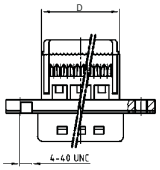
Mounting style: Through-hole



Upper part grouted with strain relief



Mounting style: Threaded insert



Strain relief

Order data

Socket connector

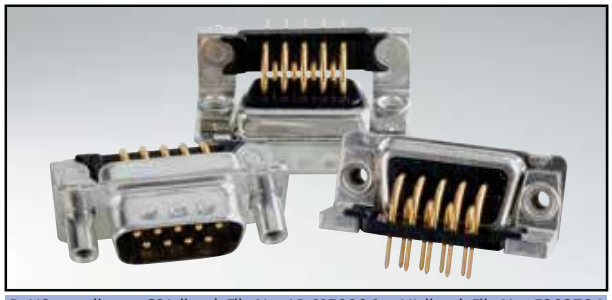
No. of pos.	Mounting style	Part Number
09	Through-hole	302A10089X
15	Through-hole	302A10099X
25	Through-hole	302A10109X
37	Through-hole	302A10119X
09	Threaded insert	DLS1XSSAG04X
15	Threaded insert	DLS2XSSAG04X
25	Threaded insert	DLS3XSSAG04X
37	Threaded insert	DLS4XSSAG04X

Plug connector

No. of pos.	Mounting style	Part Number
09	Through-hole	301A10089X
15	Through-hole	301A10099X
25	Through-hole	301A10109X
37	Through-hole	301A10119X
09	Threaded insert	DLS1XPSAG04X
15	Threaded insert	DLS2XPSAG04X
25	Threaded insert	DLS3XPSAG04X
37	Threaded insert	DLS4XPSAG04X

D-SUB Standard

Solder pin – Angled – .318"/7.19 mm – Precision machined contacts – Metal bracket

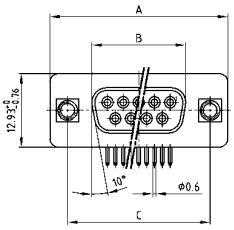


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

- Mounting styles:
  - with mounting bracket and 4-40 UNC or M3 threaded insert
  - with mounting bracket and 4-40 UNC or M3 front spacer
  - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
  - with mounting bracket, PCB clip and 4-40 UNC or M3 front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

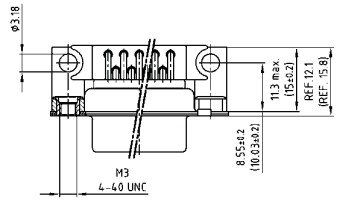
Socket connector

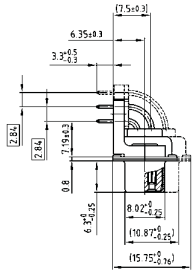


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13
50	67.31	52.55	61.10 +0.14 -0.11

PCB-Layout: Kat1kGEA

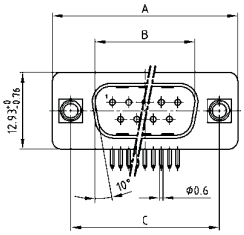
Mounting style: Threaded insert





50 pos. = Dim. in (_ _)

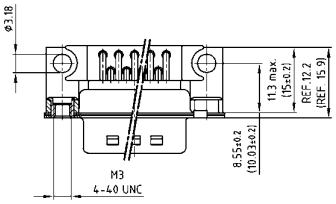
Plug connector

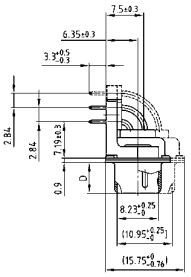


No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

PCB-Layout: Kat1kGFA

Mounting style: Threaded insert





50 pos. = Dim. in (_ _)

Order data

Socket connector

No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	164A11519X
15	4-40 UNC Threaded insert	164A11529X
25	4-40 UNC Threaded insert	164A11539X
37	4-40 UNC Threaded insert	164A11549X
50	4-40 UNC Threaded insert	164A18969X
09	M3 Threaded insert	164A13439X
15	M3 Threaded insert	164A13449X
25	M3 Threaded insert	164A13459X
37	M3 Threaded insert	164A13469X
50	M3 Threaded insert	164A18979X

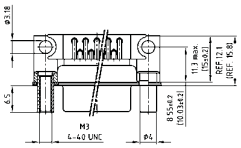
Plug connector

No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	163A13069X
15	4-40 UNC Threaded insert	163A13079X
25	4-40 UNC Threaded insert	163A13089X
37	4-40 UNC Threaded insert	163A13099X
50	4-40 UNC Threaded insert	163A18549X
09	M3 Threaded insert	163A14959X
15	M3 Threaded insert	163A14969X
25	M3 Threaded insert	163A14979X
37	M3 Threaded insert	163A14989X
50	M3 Threaded insert	163A18559X

D-SUB Standard – Mounting styles

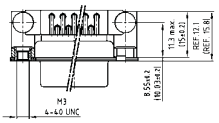
Solder pin – Angled – .318"/7.19 mm – Precision machined contacts – Metal bracket

Order data



Socket connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front spacer	164A16929X
15	4-40 UNC Front spacer	164A16939X
25	4-40 UNC Front spacer	164A16949X
37	4-40 UNC Front spacer	164A16959X
50	4-40 UNC Front spacer	164A19019X
09	M3 Front spacer	164A16969X
15	M3 Front spacer	164A16979X
25	M3 Front spacer	164A16989X
37	M3 Front spacer	164A16999X
50	M3 Front spacer	164A19029X

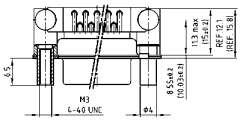
Plug connector		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front spacer	163A16519X
15	4-40 UNC Front spacer	163A16529X
25	4-40 UNC Front spacer	163A16539X
37	4-40 UNC Front spacer	163A16549X
50	4-40 UNC Front spacer	163A18589X
09	M3 Front spacer	163A16559X
15	M3 Front spacer	163A16569X
25	M3 Front spacer	163A16579X
37	M3 Front spacer	163A16589X
50	M3 Front spacer	163A18599X



Socket connector		
No. of pos.	Mounting style	Part Number
09	PCB clip/4-40 UNC Threaded insert	164A17939X
15	PCB clip/4-40 UNC Threaded insert	164A17949X
25	PCB clip/4-40 UNC Threaded insert	164A17959X
37	PCB clip/4-40 UNC Threaded insert	164A17969X
50	PCB clip/4-40 UNC Threaded insert	164A18989X
09	PCB clip/M3 Threaded insert	164A17979X
15	PCB clip/M3 Threaded insert	164A17989X
25	PCB clip/M3 Threaded insert	164A17999X
37	PCB clip/M3 Threaded insert	164A18009X
50	PCB clip/M3 Threaded insert	164A18999X

Plug connector		
No. of pos.	Mounting style	Part Number
09	PCB clip/4-40 UNC Threaded insert	163A17529X
15	PCB clip/4-40 UNC Threaded insert	163A17539X
25	PCB clip/4-40 UNC Threaded insert	163A17549X
37	PCB clip/4-40 UNC Threaded insert	163A17559X
50	PCB clip/4-40 UNC Threaded insert	163A18569X
09	PCB clip/M3 Threaded insert	163A17569X
15	PCB clip/M3 Threaded insert	163A17579X
25	PCB clip/M3 Threaded insert	163A17589X
37	PCB clip/M3 Threaded insert	163A17599X
50	PCB clip/M3 Threaded insert	163A18579X

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



Socket connector		
No. of pos.	Mounting style	Part Number
09	PCB clip/4-40 UNC Front spacer	164A19039X
15	PCB clip/4-40 UNC Front spacer	164A19049X
25	PCB clip/4-40 UNC Front spacer	164A19059X
37	PCB clip/4-40 UNC Front spacer	164A19069X
50	PCB clip/4-40 UNC Front spacer	164A19079X
09	PCB clip/M3 Front spacer	164A19089X
15	PCB clip/M3 Front spacer	164A19099X
25	PCB clip/M3 Front spacer	164A19109X
37	PCB clip/M3 Front spacer	164A19119X
50	PCB clip/M3 Front spacer	164A19129X

Plug connector		
No. of pos.	Mounting style	Part Number
09	PCB clip/4-40 UNC Front spacer	163A18609X
15	PCB clip/4-40 UNC Front spacer	163A18619X
25	PCB clip/4-40 UNC Front spacer	163A18629X
37	PCB clip/4-40 UNC Front spacer	163A18639X
50	PCB clip/4-40 UNC Front spacer	163A18649X
09	PCB clip/M3 Front spacer	163A18659X
15	PCB clip/M3 Front spacer	163A18669X
25	PCB clip/M3 Front spacer	163A18679X
37	PCB clip/M3 Front spacer	163A18689X
50	PCB clip/M3 Front spacer	163A18699X

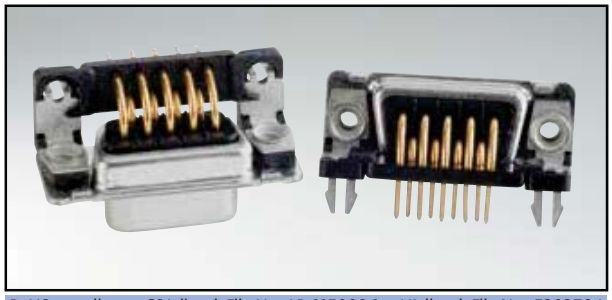
PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

PCB-Layout: Kat1kGEA

PCB-Layout: Kat1kGFA

D-SUB STANDARD

Solder pin – Angled – .318"/7.19 mm – Precision machined contacts – Plastic bracket

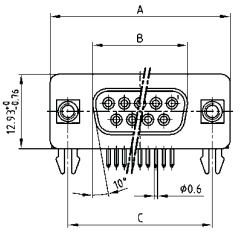


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

- Mounting styles:
  - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
  - with mounting bracket, PCB clip and 4-40 UNC or M3 front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

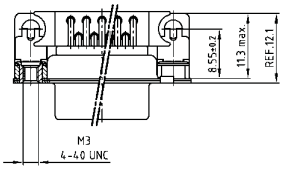
SOCKET CONNECTOR

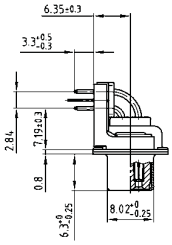


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

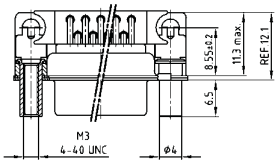
PCB-Layout: Kat1kGEA

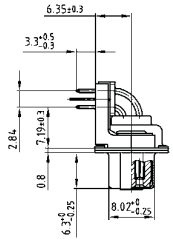
Mounting style: PCB clip, threaded insert



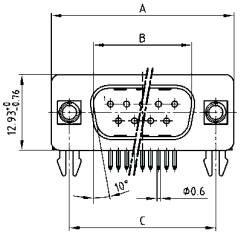


Mounting style: PCB clip, front spacer





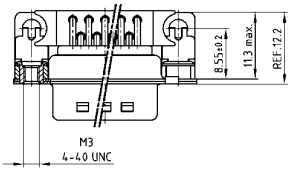
PLUG CONNECTOR

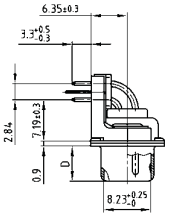


No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

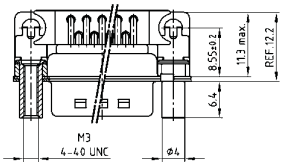
PCB-Layout: Kat1kGFA

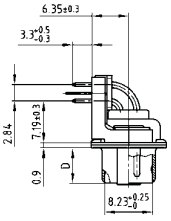
Mounting style: PCB clip, threaded insert





Mounting style: PCB clip, front spacer





ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style	Part Number
09	PCB clip/4-40 UNC Threaded insert	164A18809X
15	PCB clip/4-40 UNC Threaded insert	164A18819X
25	PCB clip/4-40 UNC Threaded insert	164A18829X
37	PCB clip/4-40 UNC Threaded insert	164A18839X
09	PCB clip/M3 Threaded insert	164A18849X
15	PCB clip/M3 Threaded insert	164A18859X
25	PCB clip/M3 Threaded insert	164A18869X
37	PCB clip/M3 Threaded insert	164A18879X
09	PCB clip/4-40 UNC Front spacer	164A18889X
15	PCB clip/4-40 UNC Front spacer	164A18899X
25	PCB clip/4-40 UNC Front spacer	164A18909X
37	PCB clip/4-40 UNC Front spacer	164A18919X
09	PCB clip/M3 Front spacer	164A18929X
15	PCB clip/M3 Front spacer	164A18939X
25	PCB clip/M3 Front spacer	164A18949X
37	PCB clip/M3 Front spacer	164A18959X

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	PCB clip/4-40 UNC Threaded insert	163A18389X
15	PCB clip/4-40 UNC Threaded insert	163A18399X
25	PCB clip/4-40 UNC Threaded insert	163A18409X
37	PCB clip/4-40 UNC Threaded insert	163A18419X
09	PCB clip/M3 Threaded insert	163A18429X
15	PCB clip/M3 Threaded insert	163A18439X
25	PCB clip/M3 Threaded insert	163A18449X
37	PCB clip/M3 Threaded insert	163A18459X
09	PCB clip/4-40 UNC Front spacer	163A18469X
15	PCB clip/4-40 UNC Front spacer	163A18479X
25	PCB clip/4-40 UNC Front spacer	163A18489X
37	PCB clip/4-40 UNC Front spacer	163A18499X
09	PCB clip/M3 Front spacer	163A18509X
15	PCB clip/M3 Front spacer	163A18519X
25	PCB clip/M3 Front spacer	163A18529X
37	PCB clip/M3 Front spacer	163A18539X

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

D-SUB Standard

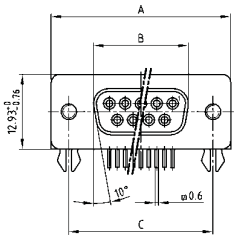
Solder pin – Angled – .318" / 7.19 mm – Stamped contacts – Plastic bracket

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

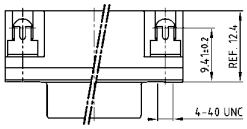
- Mounting styles:
  - with mounting bracket, PCB clip and 4-40 UNC threaded insert
  - with mounting bracket, PCB clip and 4-40 UNC hex bolt
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

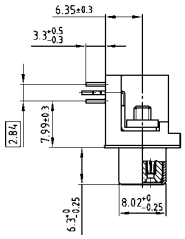
Socket connector



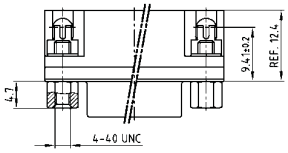
No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

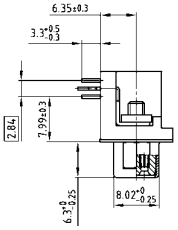
Mounting style: PCB clip, threaded insert



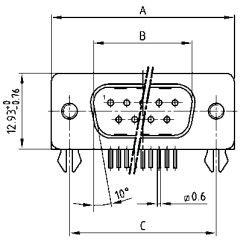


Mounting style: PCB clip, front spacer



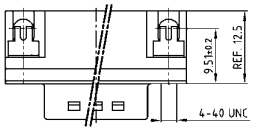


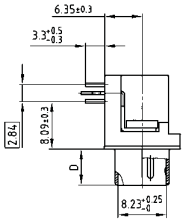
Plug connector



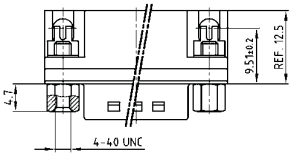
No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

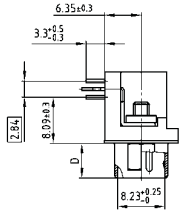
Mounting style: PCB clip, threaded insert





Mounting style: PCB clip, front spacer





Order data

Socket connector

No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip / Threaded insert	302A11339X
15	PCB clip / Threaded insert	302A11349X
25	PCB clip / Threaded insert	302A11359X
37	PCB clip / Threaded insert	302A11369X
09	PCB clip / Hex bolt	302A11249X
15	PCB clip / Hex bolt	302A11259X
25	PCB clip / Hex bolt	302A11269X
37	PCB clip / Hex bolt	302A11279X

Plug connector

No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip / Threaded insert	301A11029X
15	PCB clip / Threaded insert	301A11039X
25	PCB clip / Threaded insert	301A11049X
37	PCB clip / Threaded insert	301A11059X
09	PCB clip / Front spacer	301A10939X
15	PCB clip / Front spacer	301A10949X
25	PCB clip / Front spacer	301A10959X
37	PCB clip / Front spacer	301A10969X

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

D-SUB Standard

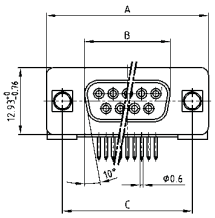
Solder pin – Angled – .370"/9.4 mm – Precision machined contacts – Plastic bracket

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

- Mounting styles:
  - with mounting bracket and Ø .118"/3 mm through-hole
  - with mounting bracket, grounding strap and 4-40 UNC or M3 threaded insert
  - with mounting bracket, grounding strap and 4-40 UNC or M3 front spacer
  - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
  - with mounting bracket, PCB clip and 4-40 UNC or M3 front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

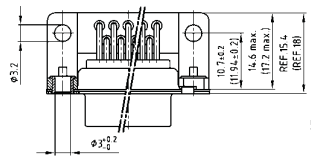
Socket connector



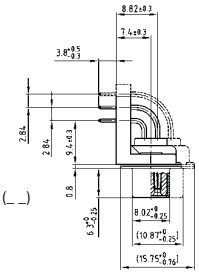
No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 +0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13
50	67.31	52.55	61.10 +0.14 -0.11

PCB-Layout: Kat1kGGA

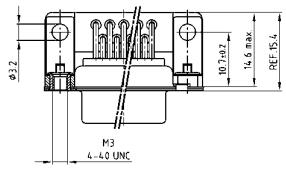
Mounting style: Through-hole

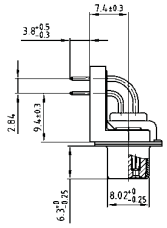


50 pos. = Dim. in (_ _)

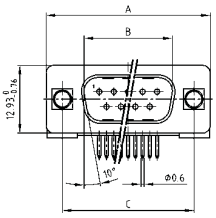


Mounting style: Threaded insert





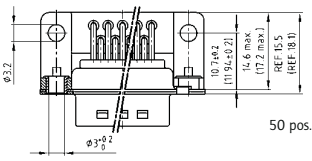
Plug connector



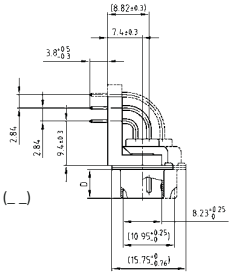
No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

PCB-Layout: Kat1kGHA

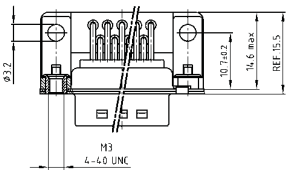
Mounting style: Through-hole

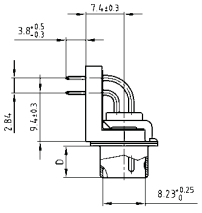


50 pos. = Dim. in (_ _)



Mounting style: Threaded insert





Order data

Socket connector

No. of pos.	Mounting style	Part Number
09	Through-hole	164A10669X
15	Through-hole	164A10679X
25	Through-hole	164A10689X
37	Through-hole	164A10699X
50	Through-hole	164A10709X
09	Grounding strap/4-40 UNC Threaded insert	164A12329X
15	Grounding strap/4-40 UNC Threaded insert	164A12339X
25	Grounding strap/4-40 UNC Threaded insert	164A12349X
37	Grounding strap/4-40 UNC Threaded insert	164A12359X
09	Grounding strap/M3 Threaded insert	164A12519X
15	Grounding strap/M3 Threaded insert	164A12529X
25	Grounding strap/M3 Threaded insert	164A12539X
37	Grounding strap/M3 Threaded insert	164A12549X

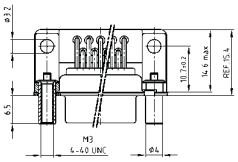
Plug connector

No. of pos.	Mounting style	Part Number
09	Through-hole	163A11719X
15	Through-hole	163A11729X
25	Through-hole	163A11739X
37	Through-hole	163A11749X
50	Through-hole	163A11759X
09	Grounding strap/4-40 UNC Threaded insert	163A14119X
15	Grounding strap/4-40 UNC Threaded insert	163A14129X
25	Grounding strap/4-40 UNC Threaded insert	163A14139X
37	Grounding strap/4-40 UNC Threaded insert	163A14149X
09	Grounding strap/M3 Threaded insert	163A14169X
15	Grounding strap/M3 Threaded insert	163A14179X
25	Grounding strap/M3 Threaded insert	163A14189X
37	Grounding strap/M3 Threaded insert	163A14199X

D-SUB Standard – Mounting styles

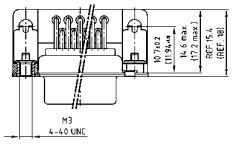
Solder pin – Angled – .370"/9.4 mm – Precision machined contacts – Plastic bracket

Order data



Socket connector		
No. of pos.	Mounting style	Part Number
09	Grounding strap/4-40 UNC Front spacer	164A12229X
15	Grounding strap/4-40 UNC Front spacer	164A12239X
25	Grounding strap/4-40 UNC Front spacer	164A12249X
37	Grounding strap/4-40 UNC Front spacer	164A12259X
09	Grounding strap/M3 Front spacer	164A12279X
15	Grounding strap/M3 Front spacer	164A12289X
25	Grounding strap/M3 Front spacer	164A12299X
37	Grounding strap/M3 Front spacer	164A12309X

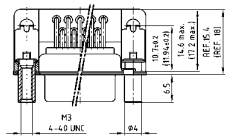
Plug connector		
No. of pos.	Mounting style	Part Number
09	Grounding strap/4-40 UNC Front spacer	163A13829X
15	Grounding strap/4-40 UNC Front spacer	163A13839X
25	Grounding strap/4-40 UNC Front spacer	163A13849X
37	Grounding strap/4-40 UNC Front spacer	163A13859X
09	Grounding strap/M3 Front spacer	163A13879X
15	Grounding strap/M3 Front spacer	163A13889X
25	Grounding strap/M3 Front spacer	163A13899X
37	Grounding strap/M3 Front spacer	163A13909X



Socket connector		
No. of pos.	Mounting style	Part Number
09	PCB clip/4-40 UNC Threaded insert	164A12969X
15	PCB clip/4-40 UNC Threaded insert	164A12979X
25	PCB clip/4-40 UNC Threaded insert	164A12989X
37	PCB clip/4-40 UNC Threaded insert	164A12999X
50	PCB clip/4-40 UNC Threaded insert	164A19139X
09	PCB clip/M3 Threaded insert	164A13009X
15	PCB clip/M3 Threaded insert	164A13019X
25	PCB clip/M3 Threaded insert	164A13029X
37	PCB clip/M3 Threaded insert	164A13039X
50	PCB clip/M3 Threaded insert	164A19149X

Plug connector		
No. of pos.	Mounting style	Part Number
09	PCB clip/4-40 UNC Threaded insert	163A14489X
15	PCB clip/4-40 UNC Threaded insert	163A14499X
25	PCB clip/4-40 UNC Threaded insert	163A14509X
37	PCB clip/4-40 UNC Threaded insert	163A14519X
50	PCB clip/4-40 UNC Threaded insert	163A18709X
09	PCB clip/M3 Threaded insert	163A14529X
15	PCB clip/M3 Threaded insert	163A14539X
25	PCB clip/M3 Threaded insert	163A14549X
37	PCB clip/M3 Threaded insert	163A14559X
50	PCB clip/M3 Threaded insert	163A18719X

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



Socket connector		
No. of pos.	Mounting style	Part Number
09	PCB clip/4-40 UNC Front spacer	164A13089X
15	PCB clip/4-40 UNC Front spacer	164A13099X
25	PCB clip/4-40 UNC Front spacer	164A13109X
37	PCB clip/4-40 UNC Front spacer	164A13119X
50	PCB clip/4-40 UNC Front spacer	164A19159X
09	PCB clip/M3 Front spacer	164A13129X
15	PCB clip/M3 Front spacer	164A13139X
25	PCB clip/M3 Front spacer	164A13149X
37	PCB clip/M3 Front spacer	164A13159X
50	PCB clip/M3 Front spacer	164A19169X

Plug connector		
No. of pos.	Mounting style	Part Number
09	PCB clip/4-40 UNC Front spacer	163A14609X
15	PCB clip/4-40 UNC Front spacer	163A14619X
25	PCB clip/4-40 UNC Front spacer	163A14629X
37	PCB clip/4-40 UNC Front spacer	163A14639X
50	PCB clip/4-40 UNC Front spacer	163A18729X
09	PCB clip/M3 Front spacer	163A14649X
15	PCB clip/M3 Front spacer	163A14659X
25	PCB clip/M3 Front spacer	163A14669X
37	PCB clip/M3 Front spacer	163A14679X
50	PCB clip/M3 Front spacer	163A18739X

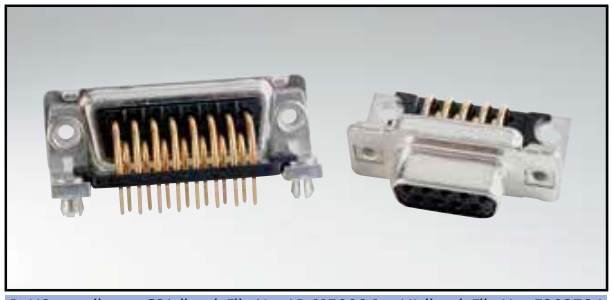
PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

PCB-Layout: Kat1kGGA

PCB-Layout: Kat1kGHA

D-SUB STANDARD

Solder pin – Angled – .370"/9.4 mm – Precision machined contacts – Metal bracket

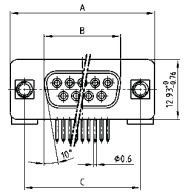


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

- Mounting styles:
  - with mounting bracket and 4-40 UNC or M3 threaded insert
  - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

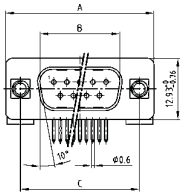
SOCKET CONNECTOR



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

PCB-Layout: KAT1kGGA

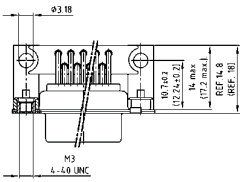
PLUG CONNECTOR



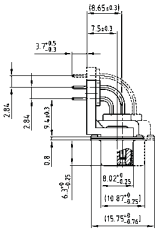
No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

PCB-Layout: Kat1kGHA

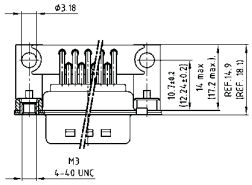
Mounting style: Threaded insert



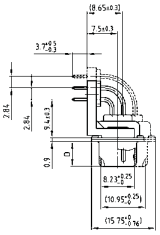
50 pos. = Dim. in (_ _)



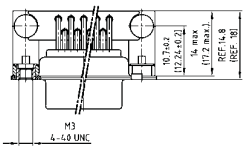
Mounting style: Threaded insert

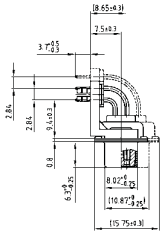


50 pos. = Dim. in (_ _)

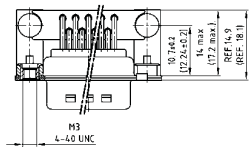


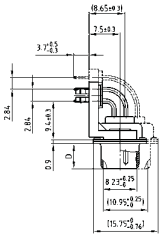
Mounting style: PCB clip, threaded insert





Mounting style: PCB clip, threaded insert





ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	164A10969X
15	4-40 UNC Threaded insert	164A10979X
25	4-40 UNC Threaded insert	164A10989X
37	4-40 UNC Threaded insert	164A10999X
50	4-40 UNC Threaded insert	164A18739X
09	M3 Threaded insert	164A11019X
15	M3 Threaded insert	164A11029X
25	M3 Threaded insert	164A11039X
37	M3 Threaded insert	164A11049X
50	M3 Threaded insert	164A18749X
09	PCB clip/4-40 UNC Threaded insert	164A16769X
15	PCB clip/4-40 UNC Threaded insert	164A16779X
25	PCB clip/4-40 UNC Threaded insert	164A16789X
37	PCB clip/4-40 UNC Threaded insert	164A16799X
50	PCB clip/4-40 UNC Threaded insert	164A18759X
09	PCB clip/M3 Threaded insert	164A16809X
15	PCB clip/M3 Threaded insert	164A16819X
25	PCB clip/M3 Threaded insert	164A16829X
37	PCB clip/M3 Threaded insert	164A16839X
50	PCB clip/M3 Threaded insert	164A18769X

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	163A12019X
15	4-40 UNC Threaded insert	163A12029X
25	4-40 UNC Threaded insert	163A12039X
37	4-40 UNC Threaded insert	163A12049X
50	4-40 UNC Threaded insert	163A18319X
09	M3 Threaded insert	163A12069X
15	M3 Threaded insert	163A12079X
25	M3 Threaded insert	163A12089X
37	M3 Threaded insert	163A12099X
50	M3 Threaded insert	163A18329X
09	PCB clip/4-40 UNC Threaded insert	163A16359X
15	PCB clip/4-40 UNC Threaded insert	163A16369X
25	PCB clip/4-40 UNC Threaded insert	163A16379X
37	PCB clip/4-40 UNC Threaded insert	163A16389X
50	PCB clip/4-40 UNC Threaded insert	163A18339X
09	PCB clip/M3 Threaded insert	163A16399X
15	PCB clip/M3 Threaded insert	163A16409X
25	PCB clip/M3 Threaded insert	163A16419X
37	PCB clip/M3 Threaded insert	163A16429X
50	PCB clip/M3 Threaded insert	163A18349X

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

D-SUB Standard

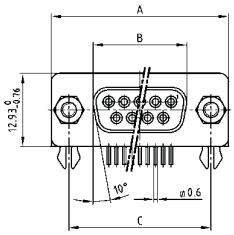
Solder pin – Angled – .370"/9.4 mm – Stamped contacts

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

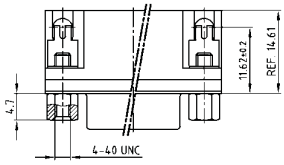
- Mounting style:
  with mounting bracket, PCB clip and 4-40 UNC hex bolt
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

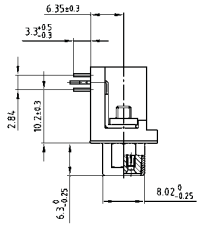
Socket connector



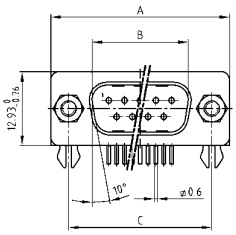
No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

Mounting style: PCB clip, front spacer



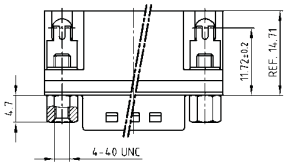


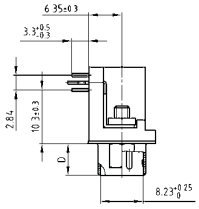
Plug connector



No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

Mounting style: PCB clip, front spacer





Order data

Socket connector

No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip/Hex bolt	302A10779X
15	PCB clip/Hex bolt	302A10789X
25	PCB clip/Hex bolt	302A10799X
37	PCB clip/Hex bolt	302A10809X

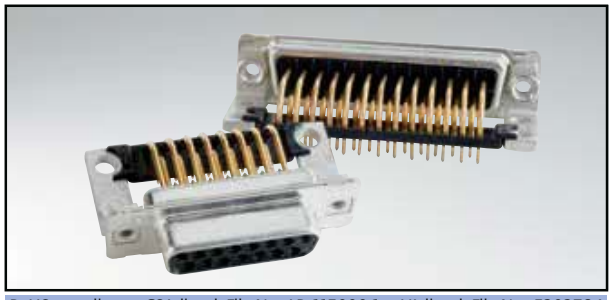
Plug connector

No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip/Hex bolt	301A10679X
15	PCB clip/Hex bolt	301A10689X
25	PCB clip/Hex bolt	301A10699X
37	PCB clip/Hex bolt	301A10709X

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

D-SUB Standard

Solder pin – Angled – .590" / 14.19 mm – Precision machined contacts – Metal bracket

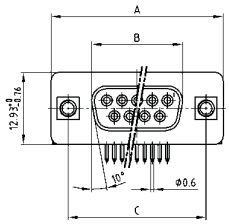


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

- Mounting styles:
  - with mounting bracket and 4-40 UNC threaded insert
  - with mounting bracket and 4-40 UNC front spacer
  - with mounting bracket, PCB clip and 4-40 UNC threaded insert
  - with mounting bracket, PCB clip and 4-40 UNC front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

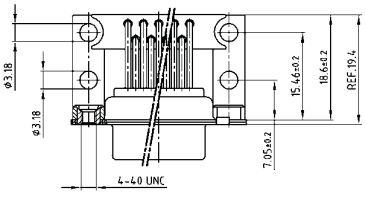
Socket connector

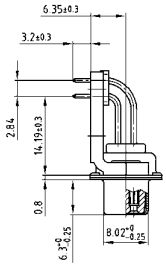


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

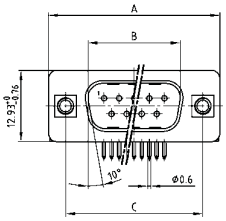
PCB-Layout: Kat1kGIA

Mounting style: Threaded insert





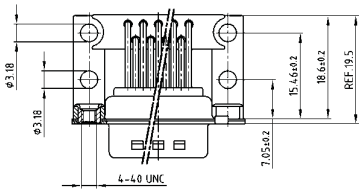
Plug connector

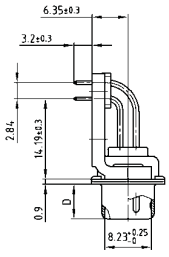


No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

PCB-Layout: Kat1kGJA

Mounting style: Threaded insert





Order data

Socket connector

No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	164A19599X
15	Threaded insert	164A19609X
25	Threaded insert	164A19619X
37	Threaded insert	164A19629X

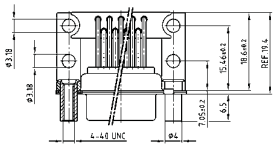
Plug connector

No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	163A19169X
15	Threaded insert	163A19179X
25	Threaded insert	163A19189X
37	Threaded insert	163A19199X

D-SUB Standard – Mounting styles

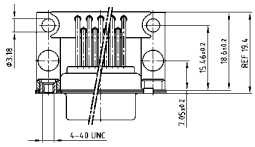
Solder pin – Angled – .590" / 14.19 mm – Precision machined contacts – Metal bracket

Order data



Socket connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front spacer	164A19679X
15	Front spacer	164A19689X
25	Front spacer	164A19699X
37	Front spacer	164A19709X

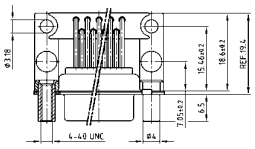
Plug connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front spacer	163A19249X
15	Front spacer	163A19259X
25	Front spacer	163A19269X
37	Front spacer	163A19279X



Socket connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip / Threaded insert	164A19639X
15	PCB clip / Threaded insert	164A19649X
25	PCB clip / Threaded insert	164A19659X
37	PCB clip / Threaded insert	164A19669X

Plug connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip / Threaded insert	163A19209X
15	PCB clip / Threaded insert	163A19219X
25	PCB clip / Threaded insert	163A19229X
37	PCB clip / Threaded insert	163A19239X

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



Socket connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip / Front spacer	164A19719X
15	PCB clip / Front spacer	164A19729X
25	PCB clip / Front spacer	164A19739X
37	PCB clip / Front spacer	164A19749X

Plug connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip / Front spacer	163A19289X
15	PCB clip / Front spacer	163A19299X
25	PCB clip / Front spacer	163A19309X
37	PCB clip / Front spacer	163A19319X

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

PCB-Layout: Kat1kGIA

PCB-Layout: Kat1kGJA

D-SUB Standard

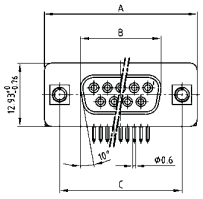
Solder pin – Angled – .590" / 14.19 mm – Precision machined contacts – Plastic bracket

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

- Mounting styles:
  - with mounting bracket and 4-40 UNC threaded insert
  - with mounting bracket and 4-40 UNC front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

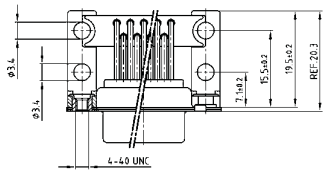
Socket connector

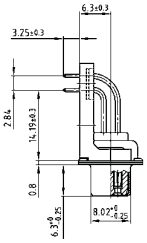


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

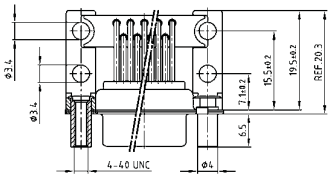
PCB-Layout: Kat1kGKA

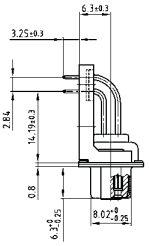
Mounting style: Threaded insert



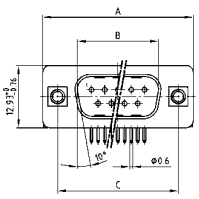


Mounting style: Front spacer





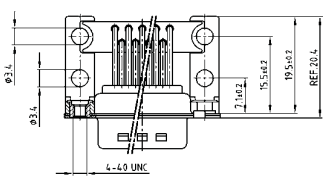
Plug connector

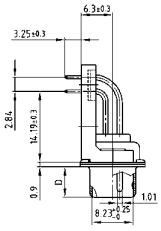


No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

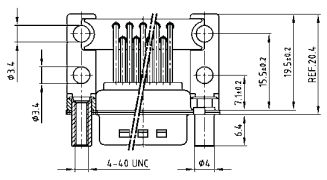
PCB-Layout: Kat1kGLA

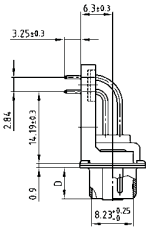
Mounting style: Threaded insert





Mounting style: Front spacer





Order data

Socket connector

No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	164A19519X
15	Threaded insert	164A19529X
25	Threaded insert	164A19539X
37	Threaded insert	164A19549X
09	Front spacer	164A19559X
15	Front spacer	164A19569X
25	Front spacer	164A19579X
37	Front spacer	164A19589X

Plug connector

No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	163A19089X
15	Threaded insert	163A19099X
25	Threaded insert	163A19109X
37	Threaded insert	163A19119X
09	Front spacer	163A19129X
15	Front spacer	163A19139X
25	Front spacer	163A19149X
37	Front spacer	163A19159X

D-SUB Standard

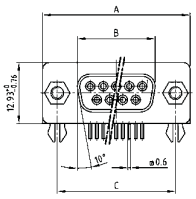
Solder pin – Angled – .590"/14.19 mm – Stamped contacts – Plastic bracket

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

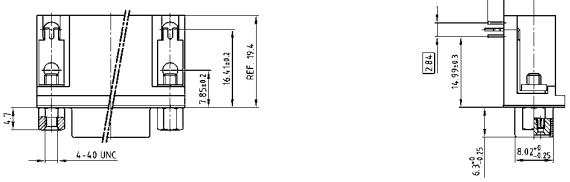
- Mounting style:
  with mounting bracket, PCB clip and 4-40 UNC hex bolt
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

Socket connector

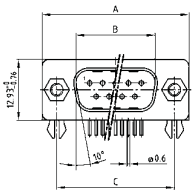


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

Mounting style: PCB clip, front spacer

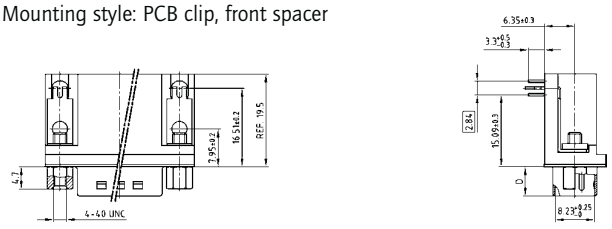


Plug connector



No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

Mounting style: PCB clip, front spacer



Order data

Socket connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip/Hex bolt	302A11289X
15	PCB clip/Hex bolt	302A11299X
25	PCB clip/Hex bolt	302A11309X
37	PCB clip/Hex bolt	302A11319X

Plug connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip/Hex bolt	301A10979X
15	PCB clip/Hex bolt	301A10989X
25	PCB clip/Hex bolt	301A10999X
37	PCB clip/Hex bolt	301A11009X

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

D-SUB Standard – Dual port

Solder pin – Angled – Precision machined contacts – .625"/15.88 mm Connector spacing

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

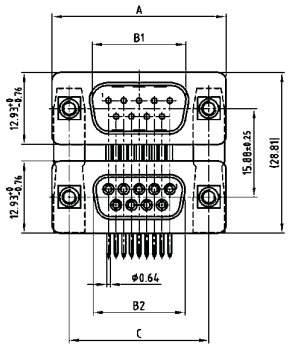
Description

- Variations: pin – pin; socket – socket; pin – socket
- Mounting styles:
  - with mounting bracket and 4-40 UNC or M3 threaded insert
  - with mounting bracket and 4-40 UNC or M3 front spacer
  - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
  - with mounting bracket, PCB clip and 4-40 UNC or M3 front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

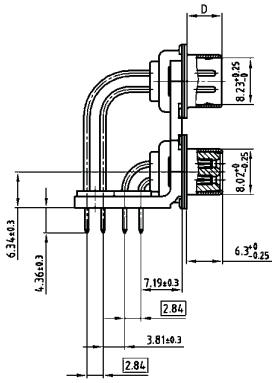
Product drawing

No. of pos.	A -0.76	B1 +0.25	B2 -0.25	C	D -0.30
2X 09	31.19	16.79	16.46	25.00 +0.12	6.12
2X 15	39.52	25.12	24.79	33.30 +0.15 -0.10	6.12
2X 25	53.42	38.84	38.50	47.04 ±0.13	5.99
2X 37	69.70	55.30	54.96	63.50 ±0.13	5.99

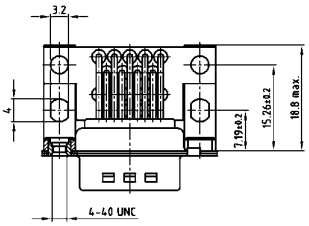
Graphical representation of only one variant!



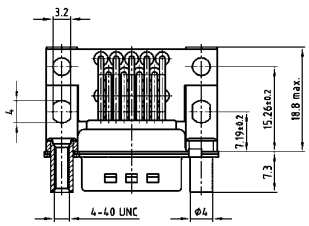
Mounting style: Threaded insert



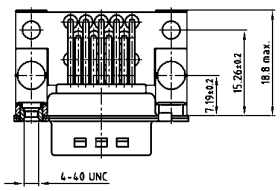
Mounting style: Front spacer

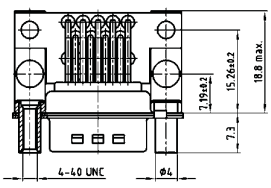


Mounting style: PCB clip, threaded insert



Mounting style: PCB clip, front spacer



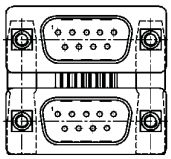


D-SUB Standard – Dual port variations

Solder pin – Angled – Precision machined contacts – .625"/15.88 mm Connector spacing

Order data

PCB-Layout: Kat1iU5A

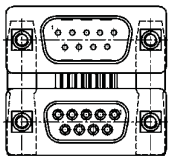


Variation:
plug upper –
plug bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 /09	Threaded insert	163A15199X
15 /15	Threaded insert	163A15209X
25 /25	Threaded insert	163A15219X
37 /37	Threaded insert	163A15229X
09 /09	Front spacer	163A15359X
15 /15	Front spacer	163A15369X
25 /25	Front spacer	163A15379X
37 /37	Front spacer	163A15389X
09 /09	PCB clip / Threaded insert	163A19969X
15 /15	PCB clip / Threaded insert	163A19979X
25 /25	PCB clip / Threaded insert	163A19989X
37 /37	PCB clip / Threaded insert	163A19999X
09 /09	PCB clip / Front spacer	163A19329X
15 /15	PCB clip / Front spacer	163A19339X
25 /25	PCB clip / Front spacer	163A19349X
37 /37	PCB clip / Front spacer	163A19359X

No. of pos.	Mounting style M3	Part Number
09 /09	Threaded insert	163A15279X
15 /15	Threaded insert	163A15289X
25 /25	Threaded insert	163A15299X
37 /37	Threaded insert	163A15309X
09 /09	Front spacer	163A15439X
15 /15	Front spacer	163A15449X
25 /25	Front spacer	163A15459X
37 /37	Front spacer	163A15469X
09 /09	PCB clip / Threaded insert	163A20049X
15 /15	PCB clip / Threaded insert	163A20059X
25 /25	PCB clip / Threaded insert	163A20069X
37 /37	PCB clip / Threaded insert	163A20079X
09 /09	PCB clip / Front spacer	163A19409X
15 /15	PCB clip / Front spacer	163A19419X
25 /25	PCB clip / Front spacer	163A19429X
37 /37	PCB clip / Front spacer	163A19439X

PCB-Layout: Kat1iU6A

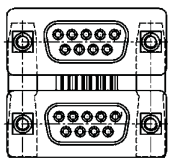


Variation:
plug upper –
socket bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 /09	Threaded insert	163A15239X
15 /15	Threaded insert	163A15249X
25 /25	Threaded insert	163A15259X
37 /37	Threaded insert	163A15269X
09 /09	Front spacer	163A15399X
15 /15	Front spacer	163A15409X
25 /25	Front spacer	163A15419X
37 /37	Front spacer	163A15429X
09 /09	PCB clip / Threaded insert	163A20009X
15 /15	PCB clip / Threaded insert	163A20019X
25 /25	PCB clip / Threaded insert	163A20029X
37 /37	PCB clip / Threaded insert	163A20039X
09 /09	PCB clip / Front spacer	163A19369X
15 /15	PCB clip / Front spacer	163A19379X
25 /25	PCB clip / Front spacer	163A19389X
37 /37	PCB clip / Front spacer	163A19399X

No. of pos.	Mounting style M3	Part Number
09 /09	Threaded insert	163A15319X
15 /15	Threaded insert	163A15329X
25 /25	Threaded insert	163A15339X
37 /37	Threaded insert	163A15349X
09 /09	Front spacer	163A15479X
15 /15	Front spacer	163A15489X
25 /25	Front spacer	163A15499X
37 /37	Front spacer	163A15509X
09 /09	PCB clip / Threaded insert	163A20089X
15 /15	PCB clip / Threaded insert	163A20099X
25 /25	PCB clip / Threaded insert	163A20109X
37 /37	PCB clip / Threaded insert	163A20119X
09 /09	PCB clip / Front spacer	163A19449X
15 /15	PCB clip / Front spacer	163A19459X
25 /25	PCB clip / Front spacer	163A19469X
37 /37	PCB clip / Front spacer	163A19479X

PCB-Layout: Kat1iU6A

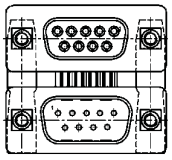


Variation:
socket upper –
socket bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 /09	Threaded insert	164A15609X
15 /15	Threaded insert	164A15619X
25 /25	Threaded insert	164A15629X
37 /37	Threaded insert	164A15639X
09 /09	Front spacer	164A15769X
15 /15	Front spacer	164A15779X
25 /25	Front spacer	164A15789X
37 /37	Front spacer	164A15799X
09 /09	PCB clip / Threaded insert	164A20409X
15 /15	PCB clip / Threaded insert	164A20419X
25 /25	PCB clip / Threaded insert	164A20429X
37 /37	PCB clip / Threaded insert	164A20439X
09 /09	PCB clip / Front spacer	164A19759X
15 /15	PCB clip / Front spacer	164A19769X
25 /25	PCB clip / Front spacer	164A19779X
37 /37	PCB clip / Front spacer	164A19789X

No. of pos.	Mounting style M3	Part Number
09 /09	Threaded insert	164A15689X
15 /15	Threaded insert	164A15699X
25 /25	Threaded insert	164A15709X
37 /37	Threaded insert	164A15719X
09 /09	Front spacer	164A15849X
15 /15	Front spacer	164A15859X
25 /25	Front spacer	164A15869X
37 /37	Front spacer	164A15879X
09 /09	PCB clip / Threaded insert	164A20489X
15 /15	PCB clip / Threaded insert	164A20499X
25 /25	PCB clip / Threaded insert	164A20509X
37 /37	PCB clip / Threaded insert	164A20519X
09 /09	PCB clip / Front spacer	164A19839X
15 /15	PCB clip / Front spacer	164A19849X
25 /25	PCB clip / Front spacer	164A19859X
37 /37	PCB clip / Front spacer	164A19869X

PCB-Layout: Kat1iU5A



Variation:
socket upper –
plug bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 /09	Threaded insert	164A15649X
15 /15	Threaded insert	164A15659X
25 /25	Threaded insert	164A15669X
37 /37	Threaded insert	164A15679X
09 /09	Front spacer	164A15809X
15 /15	Front spacer	164A15819X
25 /25	Front spacer	164A15829X
37 /37	Front spacer	164A15839X
09 /09	PCB clip / Threaded insert	164A20449X
15 /15	PCB clip / Threaded insert	164A20459X
25 /25	PCB clip / Threaded insert	164A20469X
37 /37	PCB clip / Threaded insert	164A20479X
09 /09	PCB clip / Front spacer	164A19799X
15 /15	PCB clip / Front spacer	164A19809X
25 /25	PCB clip / Front spacer	164A19819X
37 /37	PCB clip / Front spacer	164A19829X

No. of pos.	Mounting style M3	Part Number
09 /09	Threaded insert	164A15729X
15 /15	Threaded insert	164A15739X
25 /25	Threaded insert	164A15749X
37 /37	Threaded insert	164A15759X
09 /09	Front spacer	164A15889X
15 /15	Front spacer	164A15899X
25 /25	Front spacer	164A15909X
37 /37	Front spacer	164A15919X
09 /09	PCB clip / Threaded insert	164A20529X
15 /15	PCB clip / Threaded insert	164A20539X
25 /25	PCB clip / Threaded insert	164A20549X
37 /37	PCB clip / Threaded insert	164A20559X
09 /09	PCB clip / Front spacer	164A19879X
15 /15	PCB clip / Front spacer	164A19889X
25 /25	PCB clip / Front spacer	164A19899X
37 /37	PCB clip / Front spacer	164A19909X

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

D-SUB Standard – Dual port

Solder pin – Angled – Precision machined contacts – .750" / 19.05 mm Connector spacing

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

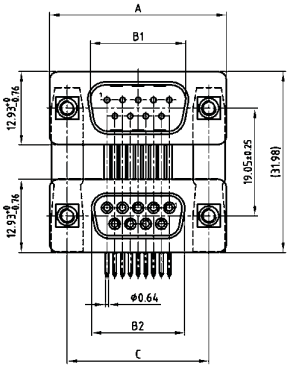
Description

- Variations: pin – pin; socket – socket; pin – socket
- Mounting styles:
  - with mounting bracket and 4-40 UNC or M3 threaded insert
  - with mounting bracket and 4-40 UNC or M3 front spacer
  - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
  - with mounting bracket, PCB clip and 4-40 UNC or M3 front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

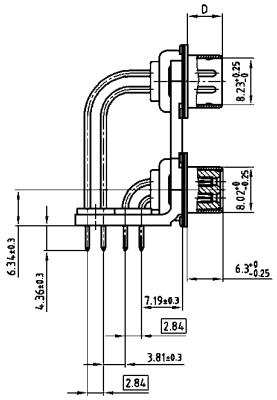
Product drawing

No. of pos.	A -0.76	B1 +0.25	B2 -0.25	C	D -0.30
2X 09	31.19	16.79	16.46	25.00 +0.12	6.12
2X 15	39.52	25.12	24.79	33.30 +0.15 -0.10	6.12
2X 25	53.42	38.84	38.50	47.04 ±0.13	5.99
2X 37	69.70	55.30	54.96	63.50 ±0.13	5.99

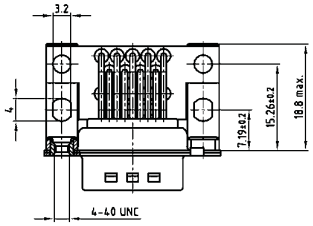
Graphical representation of only one variant!



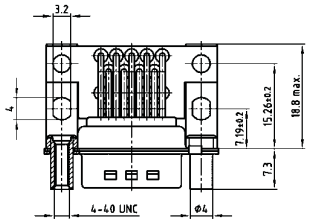
Mounting style: Threaded insert



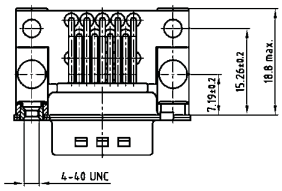
Mounting style: Front spacer

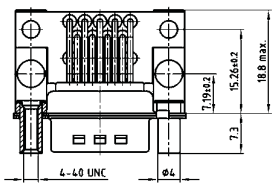


Mounting style: PCB clip, threaded insert



Mounting style: PCB clip, front spacer



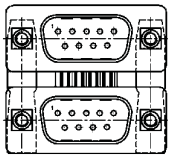


D-SUB Standard – Dual port variations

Solder pin – Angled – Precision machined contacts – .750" / 19.05 mm Connector spacing

Order data

PCB-Layout: Kat1iU5A

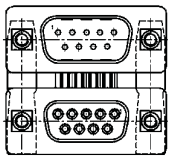


Variation:
plug upper –
plug bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	163A15519X
15 / 15	Threaded insert	163A15529X
25 / 25	Threaded insert	163A15539X
37 / 37	Threaded insert	163A15549X
09 / 09	Front spacer	163A15679X
15 / 15	Front spacer	163A15689X
25 / 25	Front spacer	163A15699X
37 / 37	Front spacer	163A15709X
09 / 09	PCB clip / Threaded insert	163A19489X
15 / 15	PCB clip / Threaded insert	163A19499X
25 / 25	PCB clip / Threaded insert	163A19509X
37 / 37	PCB clip / Threaded insert	163A19519X
09 / 09	PCB clip / Front spacer	163A19649X
15 / 15	PCB clip / Front spacer	163A19659X
25 / 25	PCB clip / Front spacer	163A19669X
37 / 37	PCB clip / Front spacer	163A19679X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	163A15599X
15 / 15	Threaded insert	163A15609X
25 / 25	Threaded insert	163A15619X
37 / 37	Threaded insert	163A15629X
09 / 09	Front spacer	163A15759X
15 / 15	Front spacer	163A15769X
25 / 25	Front spacer	163A15779X
37 / 37	Front spacer	163A15789X
09 / 09	PCB clip / Threaded insert	163A19569X
15 / 15	PCB clip / Threaded insert	163A19579X
25 / 25	PCB clip / Threaded insert	163A19589X
37 / 37	PCB clip / Threaded insert	163A19599X
09 / 09	PCB clip / Front spacer	163A19729X
15 / 15	PCB clip / Front spacer	163A19739X
25 / 25	PCB clip / Front spacer	163A19749X
37 / 37	PCB clip / Front spacer	163A19759X

PCB-Layout: Kat1iU6A

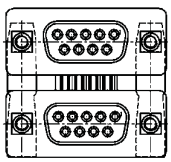


Variation:
plug upper –
socket bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	163A15559X
15 / 15	Threaded insert	163A15569X
25 / 25	Threaded insert	163A15579X
37 / 37	Threaded insert	163A15589X
09 / 09	Front spacer	163A15719X
15 / 15	Front spacer	163A15729X
25 / 25	Front spacer	163A15739X
37 / 37	Front spacer	163A15749X
09 / 09	PCB clip / Threaded insert	163A19529X
15 / 15	PCB clip / Threaded insert	163A19539X
25 / 25	PCB clip / Threaded insert	163A19549X
37 / 37	PCB clip / Threaded insert	163A19559X
09 / 09	PCB clip / Front spacer	163A19689X
15 / 15	PCB clip / Front spacer	163A19699X
25 / 25	PCB clip / Front spacer	163A19709X
37 / 37	PCB clip / Front spacer	163A19719X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	163A15639X
15 / 15	Threaded insert	163A15649X
25 / 25	Threaded insert	163A15659X
37 / 37	Threaded insert	163A15669X
09 / 09	Front spacer	163A15799X
15 / 15	Front spacer	163A15809X
25 / 25	Front spacer	163A15819X
37 / 37	Front spacer	163A15829X
09 / 09	PCB clip / Threaded insert	163A19609X
15 / 15	PCB clip / Threaded insert	163A19619X
25 / 25	PCB clip / Threaded insert	163A19629X
37 / 37	PCB clip / Threaded insert	163A19639X
09 / 09	PCB clip / Front spacer	163A19769X
15 / 15	PCB clip / Front spacer	163A19779X
25 / 25	PCB clip / Front spacer	163A19789X
37 / 37	PCB clip / Front spacer	163A19799X

PCB-Layout: Kat1iU6A

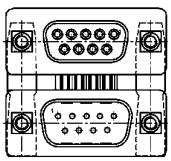


Variation:
socket upper –
socket bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	164A15929X
15 / 15	Threaded insert	164A15939X
25 / 25	Threaded insert	164A15949X
37 / 37	Threaded insert	164A15959X
09 / 09	Front spacer	164A16089X
15 / 15	Front spacer	164A16099X
25 / 25	Front spacer	164A16109X
37 / 37	Front spacer	164A16119X
09 / 09	PCB clip / Threaded insert	164A19919X
15 / 15	PCB clip / Threaded insert	164A19929X
25 / 25	PCB clip / Threaded insert	164A19939X
37 / 37	PCB clip / Threaded insert	164A19949X
09 / 09	PCB clip / Front spacer	164A20079X
15 / 15	PCB clip / Front spacer	164A20089X
25 / 25	PCB clip / Front spacer	164A20099X
37 / 37	PCB clip / Front spacer	164A20109X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	164A16009X
15 / 15	Threaded insert	164A16019X
25 / 25	Threaded insert	164A16029X
37 / 37	Threaded insert	164A16039X
09 / 09	Front spacer	164A16169X
15 / 15	Front spacer	164A16179X
25 / 25	Front spacer	164A16189X
37 / 37	Front spacer	164A16199X
09 / 09	PCB clip / Threaded insert	164A19999X
15 / 15	PCB clip / Threaded insert	164A20009X
25 / 25	PCB clip / Threaded insert	164A20019X
37 / 37	PCB clip / Threaded insert	164A20029X
09 / 09	PCB clip / Front spacer	164A20159X
15 / 15	PCB clip / Front spacer	164A20169X
25 / 25	PCB clip / Front spacer	164A20179X
37 / 37	PCB clip / Front spacer	164A20189X

PCB-Layout: Kat1iU5A



Variation:
socket upper –
plug bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	164A15969X
15 / 15	Threaded insert	164A15979X
25 / 25	Threaded insert	164A15989X
37 / 37	Threaded insert	164A15999X
09 / 09	Front spacer	164A16129X
15 / 15	Front spacer	164A16139X
25 / 25	Front spacer	164A16149X
37 / 37	Front spacer	164A16159X
09 / 09	PCB clip / Threaded insert	164A19959X
15 / 15	PCB clip / Threaded insert	164A19969X
25 / 25	PCB clip / Threaded insert	164A19979X
37 / 37	PCB clip / Threaded insert	164A19989X
09 / 09	PCB clip / Front spacer	164A20119X
15 / 15	PCB clip / Front spacer	164A20129X
25 / 25	PCB clip / Front spacer	164A20139X
37 / 37	PCB clip / Front spacer	164A20149X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	164A16049X
15 / 15	Threaded insert	164A16059X
25 / 25	Threaded insert	164A16069X
37 / 37	Threaded insert	164A16079X
09 / 09	Front spacer	164A16209X
15 / 15	Front spacer	164A16219X
25 / 25	Front spacer	164A16229X
37 / 37	Front spacer	164A16239X
09 / 09	PCB clip / Threaded insert	164A20039X
15 / 15	PCB clip / Threaded insert	164A20049X
25 / 25	PCB clip / Threaded insert	164A20059X
37 / 37	PCB clip / Threaded insert	164A20069X
09 / 09	PCB clip / Front spacer	164A20199X
15 / 15	PCB clip / Front spacer	164A20209X
25 / 25	PCB clip / Front spacer	164A20219X
37 / 37	PCB clip / Front spacer	164A20229X

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

D-SUB Standard – Dual port

Solder pin – Angled – Stamped contacts – .625"/15.88 mm and .750"/19.05 mm Connector spacing

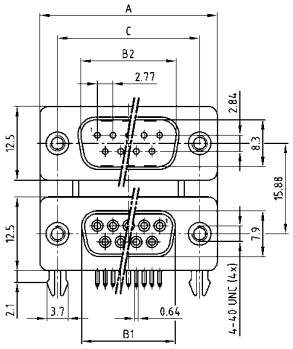
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

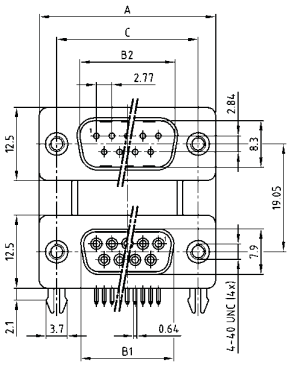
- Variations: pin – pin; socket – socket; pin – socket
- Mounting style:
  with mounting bracket, PCB clip and
  4-40 UNC threaded insert
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

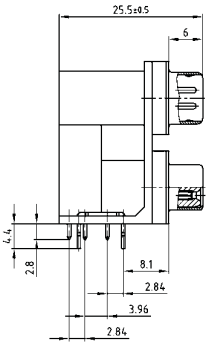
Product drawing

Connector spacing 15.88 mm

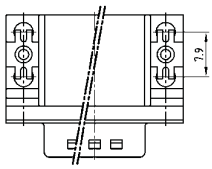


Connector spacing 19.05 mm





Mounting style: PCB clip, threaded insert



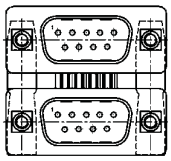
No. of pos.	A	B1	B2	C
2X 09	30.80	16.30	16.92	25.00
2X 15	39.20	24.60	25.25	33.30
2X 25	53.10	38.30	38.96	47.04
2X 37	69.40	54.80	55.42	63.50

Graphical representation of only one variant!

D-SUB Standard – Dual port variations

Solder pin – Angled – Stamped contacts – .625" / 15.88 mm and .750" / 19.05 mm Connector spacing

Order data



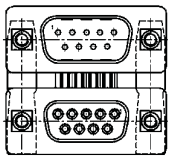
Variation:
plug upper –
plug bottom

Connector spacing .625" / 15.88 mm

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip / Threaded insert	DLS1PP5AN21X
15 / 15	PCB clip / Threaded insert	DLS2PP5AN21X
25 / 25	PCB clip / Threaded insert	DLS3PP5AN21X
37 / 37	PCB clip / Threaded insert	DLS4PP5AN21X

Connector spacing .750" / 19.05 mm

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip / Threaded insert	DLS1PP5AN23X
15 / 15	PCB clip / Threaded insert	DLS2PP5AN23X
25 / 25	PCB clip / Threaded insert	DLS3PP5AN23X
37 / 37	PCB clip / Threaded insert	DLS4PP5AN23X



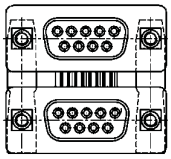
Variation:
plug upper –
socket bottom

Connector spacing .625" / 15.88 mm

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip / Threaded insert	DLS1PS5AN21X
15 / 15	PCB clip / Threaded insert	DLS2PS5AN21X
25 / 25	PCB clip / Threaded insert	DLS3PS5AN21X
37 / 37	PCB clip / Threaded insert	DLS4PS5AN21X

Connector spacing .750" / 19.05 mm

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip / Threaded insert	DLS1PS5AN23X
15 / 15	PCB clip / Threaded insert	DLS2PS5AN23X
25 / 25	PCB clip / Threaded insert	DLS3PS5AN23X
37 / 37	PCB clip / Threaded insert	DLS4PS5AN23X



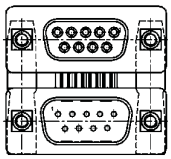
Variation:
socket upper –
socket bottom

Connector spacing .625" / 15.88 mm

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip / Threaded insert	DLS1SS5AN21X
15 / 15	PCB clip / Threaded insert	DLS2SS5AN21X
25 / 25	PCB clip / Threaded insert	DLS3SS5AN21X
37 / 37	PCB clip / Threaded insert	DLS4SS5AN21X

Connector spacing .750" / 19.05 mm

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip / Threaded insert	DLS1SS5AN23X
15 / 15	PCB clip / Threaded insert	DLS2SS5AN23X
25 / 25	PCB clip / Threaded insert	DLS3SS5AN23X
37 / 37	PCB clip / Threaded insert	DLS4SS5AN23X



Variation:
socket upper –
plug bottom

Connector spacing .625" / 15.88 mm

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip / Threaded insert	DLS1SP5AN21X
15 / 15	PCB clip / Threaded insert	DLS2SP5AN21X
25 / 25	PCB clip / Threaded insert	DLS3SP5AN21X
37 / 37	PCB clip / Threaded insert	DLS4SP5AN21X

Connector spacing .750" / 19.05 mm

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip / Threaded insert	DLS1SP5AN23X
15 / 15	PCB clip / Threaded insert	DLS2SP5AN23X
25 / 25	PCB clip / Threaded insert	DLS3SP5AN23X
37 / 37	PCB clip / Threaded insert	DLS4SP5AN23X

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

D-SUB Standard

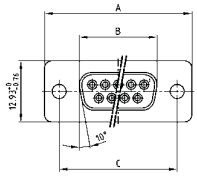
Crimp body (without contacts) – For wire size AWG 24...20 and AWG 28...24

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

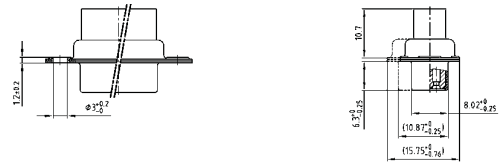
- For machined and stamped contacts, **AWG 24...20** and **AWG 28...24**
- Mounting styles:
  - with through-hole, Ø .118" / 3 mm
  - with 4-40 UNC or M3 threaded insert
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

Socket connector



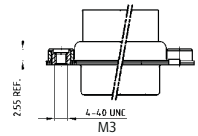
No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13
50	67.31	52.55	61.10 +0.14 -0.11

Mounting style: Through-hole

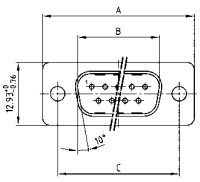


50 pos. = Dim. in (_ _)

Mounting style: Threaded insert

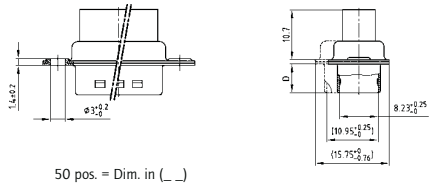


Plug connector



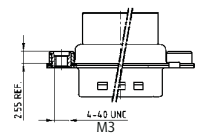
No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

Mounting style: Through-hole



50 pos. = Dim. in (_ _)

Mounting style: Threaded insert



Order data

Socket connector

No. of pos.	Mounting style	Part Number
09	Through-hole	164X11769X
15	Through-hole	164X11779X
25	Through-hole	164X11789X
37	Through-hole	164X11799X
50	Through-hole	164X11809X
09	4-40 UNC Threaded insert	DSS1XSXXG04X
15	4-40 UNC Threaded insert	DSS2XSXXG04X
25	4-40 UNC Threaded insert	DSS3XSXXG04X
37	4-40 UNC Threaded insert	DSS4XSXXG04X
50	4-40 UNC Threaded insert	DSS5XSXXG04X
09	M3 Threaded insert	DSS1XSXXG03X
15	M3 Threaded insert	DSS2XSXXG03X
25	M3 Threaded insert	DSS3XSXXG03X
37	M3 Threaded insert	DSS4XSXXG03X
50	M3 Threaded insert	DSS5XSXXG03X

Plug connector

No. of pos.	Mounting style	Part Number
09	Through-hole	163X10019X
15	Through-hole	163X10029X
25	Through-hole	163X10039X
37	Through-hole	163X10049X
50	Through-hole	163X10059X
09	4-40 UNC Threaded insert	DSS1XPXXG04X
15	4-40 UNC Threaded insert	DSS2XPXXG04X
25	4-40 UNC Threaded insert	DSS3XPXXG04X
37	4-40 UNC Threaded insert	DSS4XPXXG04X
50	4-40 UNC Threaded insert	DSS5XPXXG04X
09	M3 Threaded insert	DSS1XPXXG03X
15	M3 Threaded insert	DSS2XPXXG03X
25	M3 Threaded insert	DSS3XPXXG03X
37	M3 Threaded insert	DSS4XPXXG03X
50	M3 Threaded insert	DSS5XPXXG03X

D-SUB Standard

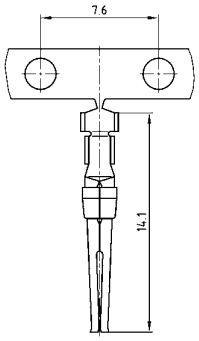
Crimp Contacts – Machined or stamped – For wire size AWG 24...20 and AWG 28...24

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

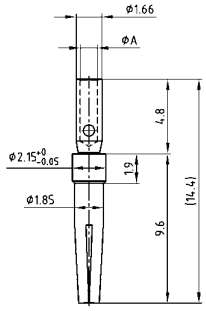
Description

- For wire size **AWG 24...20** and **AWG 28...24**
- Stamped contacts with reel length of 500 or 10,000 contacts
- Loose contacts in poly bag (500/100 pieces)
- Quality class 3 (also available in quality class 1)

Socket contactor



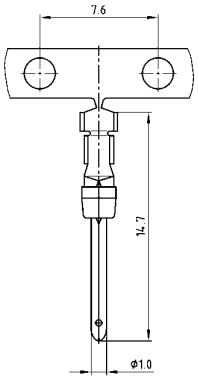
stamped Contact



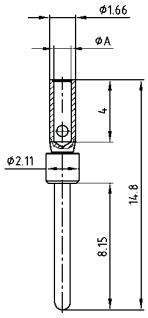
machined Contact

AWG	A +0.02
24-20	Ø 1.12
28-24	Ø 0.64

Male contactor



stamped Contact



machined Contact

AWG	A +0.02
24-20	Ø 1.12
28-24	Ø 0.64

Technical Data	
Contact material Precision machined contacts	Brass
Contact material Stamped contacts	Phosphor bronze
Contact plating Precision machined contacts	Gold plated over nickel
Contact plating Stamped contacts	Selective gold plated
Temperature range	-55°C to +125°C
Rated current for AWG 24...20	7.5 A
Rated current for AWG 28...24	5 A
Contact resistance	≤ 10 mΩ

Order data

Female contacts

Contact type / AWG	Part Number
Stamped / 24...20 / Big reel wheeled left (10.000)	162A11819X
Stamped / 24...20 / Big reel wheeled right (10.000)	162A11829X
Stamped / 24...20 / Small reel wheeled right (500)	162A11839X
Stamped / 24...20 / Loose contacts (500)	162A11849X
Machined / 24...20 / Loose contacts (500)	162A18709X
Machined / 24...20 / Loose contacts (100)	16-001653
Stamped / 28...24 / Big reel wheeled left (10.000)	162A11859X
Stamped / 28...24 / Big reel wheeled right (10.000)	162A11869X
Stamped / 28...24 / Small reel wheeled right (500)	162A11879X
Stamped / 28...24 / Loose contacts (500)	162A11889X
Machined / 28...24 / Loose contacts (500)	162A18719X
Machined / 28...24 / Loose contacts (100)	16-001663

Male contacts

Contact type / AWG	Part Number
Stamped / 24...20 / Big reel wheeled left (10.000)	161A13369X
Stamped / 24...20 / Big reel wheeled right (10.000)	161A13379X
Stamped / 24...20 / Small reel wheeled right (500)	161A13389X
Stamped / 24...20 / Loose contacts (500)	161A13399X
Machined / 24...20 / Loose contacts (500)	161A18299X
Machined / 24...20 / Loose contacts (100)	16-001673
Stamped / 28...24 / Big reel wheeled left (10.000)	161A13409X
Stamped / 28...24 / Big reel wheeled right (10.000)	161A13419X
Stamped / 28...24 / Small reel wheeled right (500)	161A13429X
Stamped / 28...24 / Loose contacts (500)	161A13439X
Machined / 28...24 / Loose contacts (500)	161A18309X
Machined / 28...24 / Loose contacts (100)	16-001683

D-SUB High Density

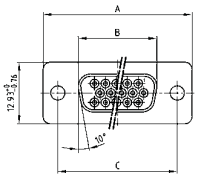
Solder cup – Precision machined contacts – For wire size AWG 22

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

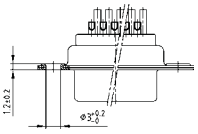
- Suitable for wire size **AWG 22**
- Mounting styles:
  - with through-hole, Ø .118" / 3 mm
  - with 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

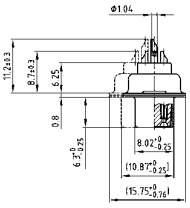
Socket connector



No. of pos.	A -0.76	B -0.25	C
15	31.19	16.46	25.00 +0.12
26	39.52	24.79	33.30 +0.15 -0.10
44	53.42	38.50	47.04 ±0.13
62	69.70	54.96	63.50 ±0.13
78	67.31	52.55	61.10 +0.14 -0.11

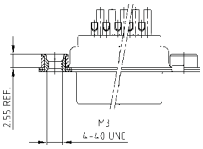
Mounting style: Through-hole



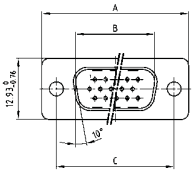


78 pos. = Dim. in (_ _)

Mounting style: Threaded insert

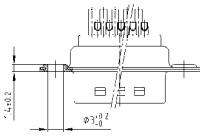


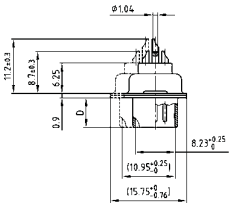
Plug connector



No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 +0.12	6.12
26	39.52	25.12	33.30 +0.15 -0.10	6.12
44	53.42	38.84	47.04 ±0.13	5.99
62	69.70	55.30	63.50 ±0.13	5.99
78	67.31	52.68	61.10 +0.14 -0.11	5.99

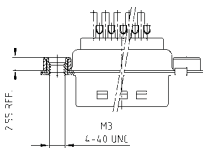
Mounting style: Through-hole





78 pos. = Dim. in (_ _)

Mounting style: Threaded insert



Order data

Socket connector

No. of pos.	Mounting style	Part Number
15	Through-hole	164A17009X
26	Through-hole	164A17019X
44	Through-hole	164A17029X
62	Through-hole	164A17039X
78	Through-hole	164A17049X
15	4-40 UNC Threaded insert	164A17059X
26	4-40 UNC Threaded insert	164A17069X
44	4-40 UNC Threaded insert	164A17079X
62	4-40 UNC Threaded insert	164A17089X
78	4-40 UNC Threaded insert	164A17099X
15	M3 Threaded insert	164A17109X
26	M3 Threaded insert	164A17119X
42	M3 Threaded insert	164A17129X
62	M3 Threaded insert	164A17139X
78	M3 Threaded insert	164A17149X

Plug connector

No. of pos.	Mounting style	Part Number
15	Through-hole	163A16599X
26	Through-hole	163A16609X
44	Through-hole	163A16619X
62	Through-hole	163A16629X
78	Through-hole	163A16639X
15	4-40 UNC Threaded insert	163A16649X
26	4-40 UNC Threaded insert	163A16659X
44	4-40 UNC Threaded insert	163A16669X
62	4-40 UNC Threaded insert	163A16679X
78	4-40 UNC Threaded insert	163A16689X
15	M3 Threaded insert	163A16699X
26	M3 Threaded insert	163A16709X
44	M3 Threaded insert	163A16719X
62	M3 Threaded insert	163A16729X
78	M3 Threaded insert	163A16739X

D-SUB High Density

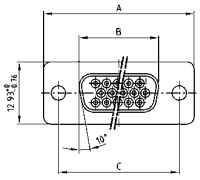
Solder cup – Stamped contacts – For wire size AWG 22

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

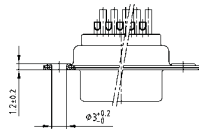
- Suitable for wire size **AWG 22**
- Mounting style:
  with through-hole Ø .118" / 3 mm
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

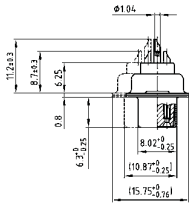
Socket connector



No. of pos.	A -0.76	B -0.25	C
15	31.19	16.46	25.00 +0.12
26	39.52	24.79	33.30 +0.15 -0.10
44	53.42	38.50	47.04 ±0.13
62	69.70	54.96	63.50 ±0.13
78	67.31	52.55	61.10 +0.14 -0.11

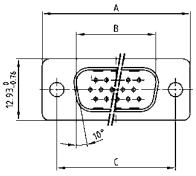
Mounting style: Through-hole





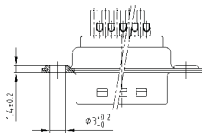
78 pos. = Dim. in (_ _)

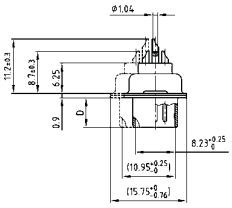
Plug connector



No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 +0.12	6.12
26	39.52	25.12	33.30 +0.15 -0.10	6.12
44	53.42	38.84	47.04 ±0.13	5.99
62	69.70	55.30	63.50 ±0.13	5.99
78	67.31	52.68	61.10 +0.14 -0.11	5.99

Mounting style: Through-hole





78 pos. = Dim. in (_ _)

Order data

Socket connector

No. of pos.	Mounting style	Part Number
15	Through-hole	302A10129X
26	Through-hole	302A10139X
44	Through-hole	302A10149X
62	Through-hole	302A10159X
78	Through-hole	302A11329X

Plug connector

No. of pos.	Mounting style	Part Number
15	Through-hole	301A10129X
26	Through-hole	301A10139X
44	Through-hole	301A10149X
62	Through-hole	301A10159X
78	Through-hole	301A11019X

D-SUB High Density

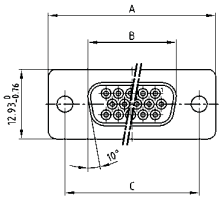
Solder pin – Straight – Precision machined contacts

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

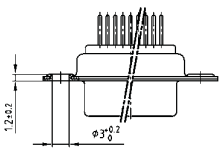
- Mounting styles:
  - with through-hole, Ø .118" / 3 mm
  - with 4-40 UNC or M3 threaded insert
  - with 4-40 UNC front / M3 threaded rear spacer
  - with M3 front / 4-40 UNC or M3 threaded rear spacer with PCB clip
  - with 4-40 UNC or M3 front and threaded rear spacer with PCB clip
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

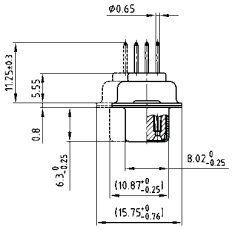
Socket connector



No. of pos.	A -0.76	B -0.25	C
15	31.19	16.46	25.00 +0.12
26	39.52	24.79	33.30 +0.15 -0.10
44	53.42	38.50	47.04 ±0.13
62	69.70	54.96	63.50 ±0.13
78	67.31	52.55	61.10 +0.14 -0.11

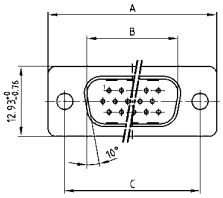
PCB-Layout: Kat1iT9A





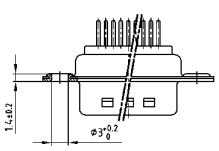
78 pos. = Dim. in (_ _)

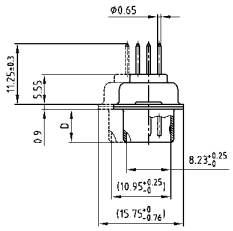
Plug connector



No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 +0.12	6.12
26	39.52	25.12	33.30 +0.15 -0.10	6.12
44	53.42	38.84	47.04 ±0.13	5.99
62	69.70	55.30	63.50 ±0.13	5.99
78	67.31	52.68	61.10 +0.14 -0.11	5.99

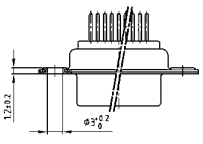
PCB-Layout: Kat1iU0A





78 pos. = Dim. in (_ _)

Order data

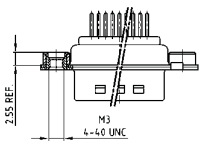


Socket connector

No. of pos.	Mounting style	Part Number
15	Through-hole	164A17159X
26	Through-hole	164A17169X
44	Through-hole	164A17179X
62	Through-hole	164A17189X
78	Through-hole	164A17199X

Plug connector

No. of pos.	Mounting style	Part Number
15	Through-hole	163A16749X
26	Through-hole	163A16759X
44	Through-hole	163A16769X
62	Through-hole	163A16779X
78	Through-hole	163A16789X



Socket connector

No. of pos.	Mounting style	Part Number
15	4-40 UNC Threaded insert	164A17209X
26	4-40 UNC Threaded insert	164A17219X
44	4-40 UNC Threaded insert	164A17229X
62	4-40 UNC Threaded insert	164A17239X
78	4-40 UNC Threaded insert	164A17249X
15	M3 Threaded insert	164A17259X
26	M3 Threaded insert	164A17269X
44	M3 Threaded insert	164A17279X
62	M3 Threaded insert	164A17289X
78	M3 Threaded insert	164A17299X

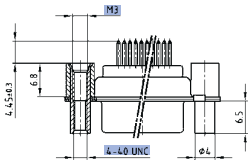
Plug connector

No. of pos.	Mounting style	Part Number
15	4-40 UNC Threaded insert	163A16799X
26	4-40 UNC Threaded insert	163A16809X
44	4-40 UNC Threaded insert	163A16819X
62	4-40 UNC Threaded insert	163A16829X
78	4-40 UNC Threaded insert	163A16839X
15	M3 Threaded insert	163A16849X
26	M3 Threaded insert	163A16859X
44	M3 Threaded insert	163A16869X
62	M3 Threaded insert	163A16879X
78	M3 Threaded insert	163A16889X

D-SUB High Density – Mounting styles

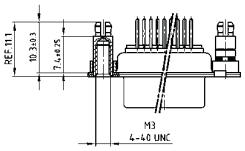
Solder pin – Straight – Precision machined contacts

Order data



Socket connector		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Front/M3 Threaded rear spacer	164A17309X
26	4-40 UNC Front/M3 Threaded rear spacer	164A17319X
44	4-40 UNC Front/M3 Threaded rear spacer	164A17329X
62	4-40 UNC Front/M3 Threaded rear spacer	164A17339X
78	4-40 UNC Front/M3 Threaded rear spacer	164A17349X

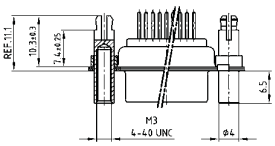
Plug connector		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Front/M3 Threaded rear spacer	163A16899X
26	4-40 UNC Front/M3 Threaded rear spacer	163A16909X
44	4-40 UNC Front/M3 Threaded rear spacer	163A16919X
62	4-40 UNC Front/M3 Threaded rear spacer	163A16929X
78	4-40 UNC Front/M3 Threaded rear spacer	163A16939X



Socket connector		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Threaded rear spacer PCB clip	164A17359X
26	4-40 UNC Threaded rear spacer PCB clip	164A17369X
44	4-40 UNC Threaded rear spacer PCB clip	164A17379X
62	4-40 UNC Threaded rear spacer PCB clip	164A17389X
78	4-40 UNC Threaded rear spacer PCB clip	164A17399X
15	M3 Threaded rear spacer PCB clip	164A17409X
26	M3 Threaded rear spacer PCB clip	164A17419X
44	M3 Threaded rear spacer PCB clip	164A17429X
62	M3 Threaded rear spacer PCB clip	164A17439X
78	M3 Threaded rear spacer PCB clip	164A17449X

Plug connector		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Threaded rear spacer PCB clip	163A16949X
26	4-40 UNC Threaded rear spacer PCB clip	163A16959X
44	4-40 UNC Threaded rear spacer PCB clip	163A16969X
62	4-40 UNC Threaded rear spacer PCB clip	163A16979X
78	4-40 UNC Threaded rear spacer PCB clip	163A16989X
15	M3 Threaded rear spacer PCB clip	163A16999X
26	M3 Threaded rear spacer PCB clip	163A17009X
44	M3 Threaded rear spacer PCB clip	163A17019X
62	M3 Threaded rear spacer PCB clip	163A17029X
78	M3 Threaded rear spacer PCB clip	163A17039X

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



Socket connector		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Front/Threaded rear spacer PCB clip	164A17459X
26	4-40 UNC Front/Threaded rear spacer PCB clip	164A17469X
44	4-40 UNC Front/Threaded rear spacer PCB clip	164A17479X
62	4-40 UNC Front/Threaded rear spacer PCB clip	164A17489X
78	4-40 UNC Front/Threaded rear spacer PCB clip	164A17499X
15	M3 Front/Threaded rear spacer PCB clip	164A17509X
26	M3 Front/Threaded rear spacer PCB clip	164A17519X
44	M3 Front/Threaded rear spacer PCB clip	164A17529X
62	M3 Front/Threaded rear spacer PCB clip	164A17539X
78	M3 Front/Threaded rear spacer PCB clip	164A17549X

Plug connector		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Front/Threaded rear spacer PCB clip	163A17049X
26	4-40 UNC Front/Threaded rear spacer PCB clip	163A17059X
44	4-40 UNC Front/Threaded rear spacer PCB clip	163A17069X
62	4-40 UNC Front/Threaded rear spacer PCB clip	163A17079X
78	4-40 UNC Front/Threaded rear spacer PCB clip	163A17089X
15	M3 Front/Threaded rear spacer PCB clip	163A17099X
26	M3 Front/Threaded rear spacer PCB clip	163A17109X
44	M3 Front/Threaded rear spacer PCB clip	163A17119X
62	M3 Front/Threaded rear spacer PCB clip	163A17129X
78	M3 Front/Threaded rear spacer PCB clip	163A17139X

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

PCB-Layout: Kat1iT9A

PCB-Layout: Kat1iU0A

D-SUB High Density

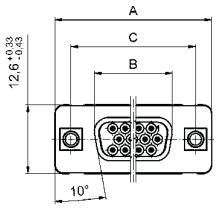
Press-fit contact – Straight – Precision machined contacts

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

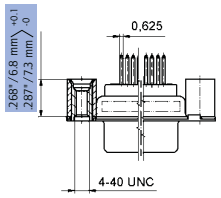
- Mounting styles:
  - with .268" / 6.8 mm threaded rear spacer and 4-40 UNC
  - with .287" / 7.3 mm threaded rear spacer and 4-40 UNC
- For .040" / 1.0 mm $^{+\ .003"/0.09\ mm}_{-\ .002"/0.06\ mm}$ finished through-hole diameter
  Refer to product drawing for details
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

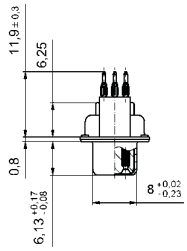
Socket connector



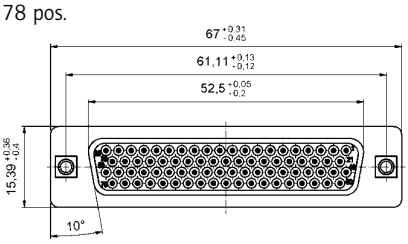
No. of pos.	A	B	C
15	30.88 +0.31 -0.45	16.41 +0.05 -0.20	24.99 +0.13 -0.12
26	39.22 +0.30 -0.46	24.74 +0.05 -0.20	33.32 +0.13 -0.12
44	53.09 +0.33 -0.43	38.51 +0 -0.26	47.04 +0.13 -0.12
62	69.50 +0.20 -0.56	54.94 +0.05 -0.23	63.50 +0.13 -0.12

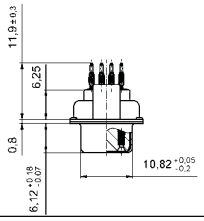
15-62 pos.



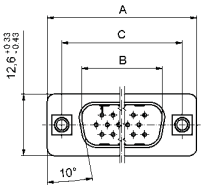


78 pos.



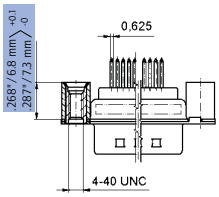


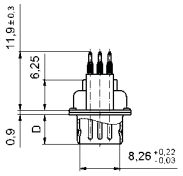
Plug connector



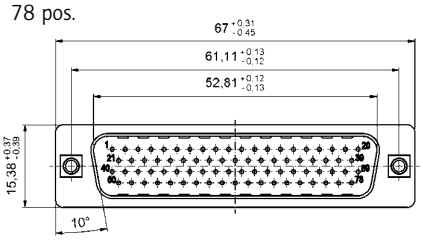
No. of pos.	A	B	C	D
15	30.88 +0.31 -0.45	16.41 +0.05 -0.20	24.99 +0.13 -0.12	6.00 +0.12 -0.18
26	39.22 +0.30 -0.46	24.74 +0.05 -0.20	33.32 +0.13 -0.12	6.00 +0.12 -0.18
44	53.09 +0.33 -0.43	38.51 +0 -0.26	47.04 +0.13 -0.12	6.00 -0.30
62	69.50 +0.20 -0.56	54.94 +0.05 -0.23	63.50 +0.13 -0.12	6.00 -0.30

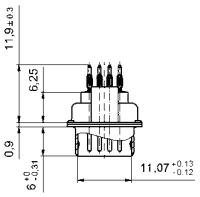
15-62 pos.





78 pos.





Order data

Socket connector

No. of pos.	Mounting style 4-40 UNC thread	Part Number
15	Threaded rear spacer .268" / 6.8 mm	DSH1XSGAA48X
26	Threaded rear spacer .268" / 6.8 mm	DSH2XSGAA48X
44	Threaded rear spacer .268" / 6.8 mm	DSH3XSGAA48X
62	Threaded rear spacer .268" / 6.8 mm	DSH4XSGAA48X
78	Threaded rear spacer .268" / 6.8 mm	DSH5XSGAA48X
15	Threaded rear spacer .287" / 7.3 mm	DSH1XSHAA49X
26	Threaded rear spacer .287" / 7.3 mm	DSH2XSHAA49X
44	Threaded rear spacer .287" / 7.3 mm	DSH3XSHAA49X
62	Threaded rear spacer .287" / 7.3 mm	DSH4XSHAA49X
78	Threaded rear spacer .287" / 7.3 mm	DSH5XSHAA49X

Plug connector

No. of pos.	Mounting style 4-40 UNC thread	Part Number
15	Threaded rear spacer .268" / 6.8 mm	DSH1XPGAA48X
26	Threaded rear spacer .268" / 6.8 mm	DSH2XPGAA48X
44	Threaded rear spacer .268" / 6.8 mm	DSH3XPGAA48X
62	Threaded rear spacer .268" / 6.8 mm	DSH4XPGAA48X
78	Threaded rear spacer .268" / 6.8 mm	DSH5XPGAA48X
15	Threaded rear spacer .287" / 7.3 mm	DSH1XPHAA49X
26	Threaded rear spacer .287" / 7.3 mm	DSH2XPHAA49X
44	Threaded rear spacer .287" / 7.3 mm	DSH3XPHAA49X
62	Threaded rear spacer .287" / 7.3 mm	DSH4XPHAA49X
78	Threaded rear spacer .287" / 7.3 mm	DSH5XPHAA49X

D-SUB High Density

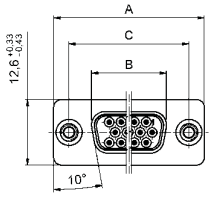
Press-fit contact – Straight – Precision machined contacts – Rear press-fit spacer

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

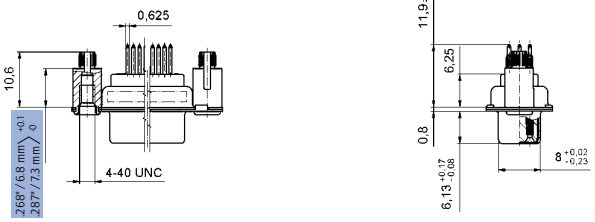
- Mounting styles:
  - with .268"/6.8 mm rear press-fit spacer and 4-40 UNC
  - with .287"/7.3 mm rear press-fit spacer and 4-40 UNC
- For .040"/1.0 mm $^{+\ .003"/0.09mm}_{-\ .002"/0.06mm}$ finished through-hole diameter
  Refer to product drawing for details
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

Socket connector

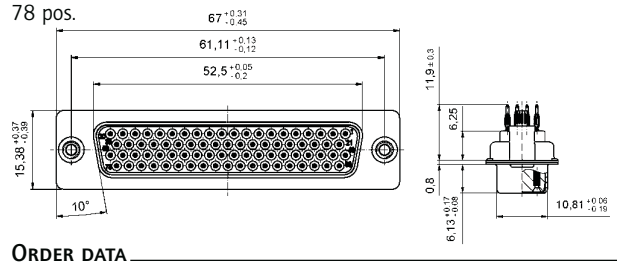


No. of pos.	A	B	C
15	30.88 +0.31 -0.45	16.41 +0.05 -0.20	24.99 +0.13 -0.12
26	39.22 +0.30 -0.46	24.74 +0.05 -0.20	33.32 +0.13 -0.12
44	53.09 +0.33 -0.43	38.51 +0 -0.26	47.04 +0.13 -0.12
62	69.50 +0.20 -0.56	54.94 +0.05 -0.23	63.50 +0.13 -0.12

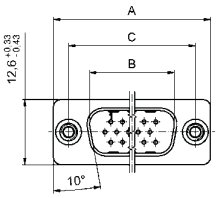
15-62 pos.



78 pos.

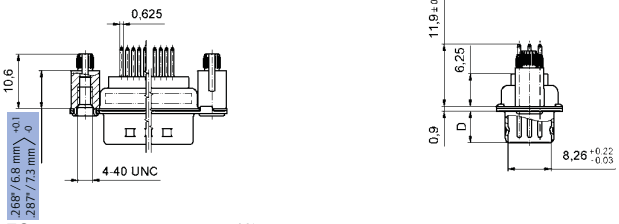


Plug connector

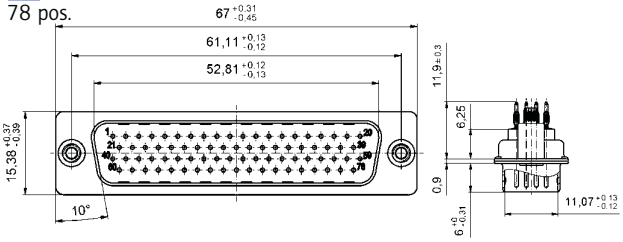


No. of pos.	A	B	C	D
15	30.88 +0.31 -0.45	16.41 +0.05 -0.20	24.99 +0.13 -0.12	6.00 +0.12 -0.18
26	39.22 +0.30 -0.46	24.74 +0.05 -0.20	33.32 +0.13 -0.12	6.00 +0.12 -0.18
44	53.09 +0.33 -0.43	38.51 +0 -0.26	47.04 +0.13 -0.12	6.00 -0.30
62	69.50 +0.20 -0.56	54.94 +0.05 -0.23	63.50 +0.13 -0.12	6.00 -0.30

15-62 pos.



78 pos.



Order data

Socket connector

No. of pos.	Mounting style 4-40 UNC thread	Part Number
15	Rear press-fit spacer .268"/6.8 mm	DSH1XSGAA58X
26	Rear press-fit spacer .268"/6.8 mm	DSH2XSGAA58X
44	Rear press-fit spacer .268"/6.8 mm	DSH3XSGAA58X
62	Rear press-fit spacer .268"/6.8 mm	DSH4XSGAA58X
78	Rear press-fit spacer .268"/6.8 mm	DSH5XSGAA58X
15	Rear press-fit spacer .287"/7.3 mm	DSH1XSHAA54X
26	Rear press-fit spacer .287"/7.3 mm	DSH2XSHAA54X
44	Rear press-fit spacer .287"/7.3 mm	DSH3XSHAA54X
62	Rear press-fit spacer .287"/7.3 mm	DSH4XSHAA54X
78	Rear press-fit spacer .287"/7.3 mm	DSH5XSHAA54X

Plug connector

No. of pos.	Mounting style 4-40 UNC thread	Part Number
15	Rear press-fit spacer .268"/6.8 mm	DSH1XPGAA58X
26	Rear press-fit spacer .268"/6.8 mm	DSH2XPGAA58X
44	Rear press-fit spacer .268"/6.8 mm	DSH3XPGAA58X
62	Rear press-fit spacer .268"/6.8 mm	DSH4XPGAA58X
78	Rear press-fit spacer .268"/6.8 mm	DSH5XPGAA58X
15	Rear press-fit spacer .287"/7.3 mm	DSH1XPHAA54X
26	Rear press-fit spacer .287"/7.3 mm	DSH2XPHAA54X
44	Rear press-fit spacer .287"/7.3 mm	DSH3XPHAA54X
62	Rear press-fit spacer .287"/7.3 mm	DSH4XPHAA54X
78	Rear press-fit spacer .287"/7.3 mm	DSH5XPHAA54X

D-SUB High Density

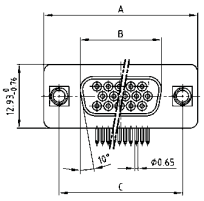
Solder pin – Angled – .350" / 7.98 mm – Precision machined contacts – Plastic bracket

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

- Mounting styles:
  - with mounting and grounding strap, 4-40 UNC or M3 threaded insert
  - with mounting and grounding strap, 4-40 UNC or M3 front spacer
  - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
  - with mounting bracket, PCB clip and 4-40 UNC or M3 front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

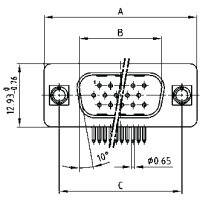
Socket connector



No. of pos.	A -0.76	B -0.25	C
15	31.19	16.46	25.00 +0.12
26	39.52	24.79	33.30 +0.15 -0.10
44	53.42	38.50	47.04 ±0.13
62	69.70	54.96	63.50 ±0.13

PCB-Layout: Kat1iU1A

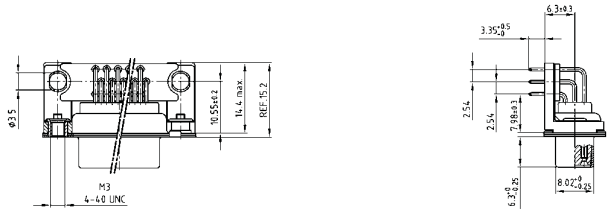
Plug connector



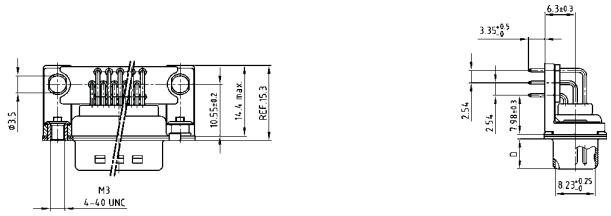
No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 +0.12	6.12
26	39.52	25.12	33.30 +0.15 -0.10	6.12
44	53.42	38.84	47.04 ±0.13	5.99
62	69.70	55.30	63.50 ±0.13	5.99

PCB-Layout: Kat1iU2A

Mounting style: Grounding strap, threaded insert



Mounting style: Grounding strap, threaded insert



Order data

Socket connector

No. of pos.	Mounting style	Part Number
15	Grounding strap / 4-40 UNC Threaded insert	164A18019X
26	Grounding strap / 4-40 UNC Threaded insert	164A18029X
44	Grounding strap / 4-40 UNC Threaded insert	164A18039X
62	Grounding strap / 4-40 UNC Threaded insert	164A18049X
15	Grounding strap / M3 Threaded insert	164A18059X
26	Grounding strap / M3 Threaded insert	164A18069X
44	Grounding strap / M3 Threaded insert	164A18079X
62	Grounding strap / M3 Threaded insert	164A18089X

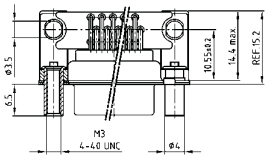
Plug connector

No. of pos.	Mounting style	Part Number
15	Grounding strap / 4-40 UNC Threaded insert	163A17609X
26	Grounding strap / 4-40 UNC Threaded insert	163A17619X
44	Grounding strap / 4-40 UNC Threaded insert	163A17629X
62	Grounding strap / 4-40 UNC Threaded insert	163A17639X
15	Grounding strap / M3 Threaded insert	163A17649X
26	Grounding strap / M3 Threaded insert	163A17659X
44	Grounding strap / M3 Threaded insert	163A17669X
62	Grounding strap / M3 Threaded insert	163A17679X

D-SUB High Density – Mounting styles

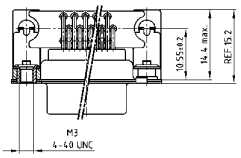
Solder pin – Angled – .350" / 7.98 mm – Precision machined contacts – Plastic bracket

Order data



Socket connector		
No. of pos.	Mounting style	Part Number
15	Grounding strap / 4-40 UNC Front spacer	164A18099X
26	Grounding strap / 4-40 UNC Front spacer	164A18109X
44	Grounding strap / 4-40 UNC Front spacer	164A18119X
62	Grounding strap / 4-40 UNC Front spacer	164A18129X
15	Grounding strap / M3 Front spacer	164A18139X
26	Grounding strap / M3 Front spacer	164A18149X
44	Grounding strap / M3 Front spacer	164A18159X
62	Grounding strap / M3 Front spacer	164A18169X

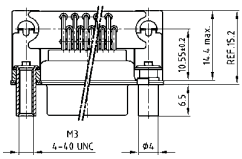
Plug connector		
No. of pos.	Mounting style	Part Number
15	Grounding strap / 4-40 UNC Front spacer	163A17689X
26	Grounding strap / 4-40 UNC Front spacer	163A17699X
44	Grounding strap / 4-40 UNC Front spacer	163A17709X
62	Grounding strap / 4-40 UNC Front spacer	163A17719X
15	Grounding strap / M3 Front spacer	163A17729X
26	Grounding strap / M3 Front spacer	163A17739X
44	Grounding strap / M3 Front spacer	163A17749X
62	Grounding strap / M3 Front spacer	163A17759X



Socket connector		
No. of pos.	Mounting style	Part Number
15	PCB clip / 4-40 UNC Threaded insert	164A20929X
26	PCB clip / 4-40 UNC Threaded insert	164A20939X
44	PCB clip / 4-40 UNC Threaded insert	164A20949X
62	PCB clip / 4-40 UNC Threaded insert	164A20959X
15	PCB clip / M3 Threaded insert	164A20969X
26	PCB clip / M3 Threaded insert	164A20979X
44	PCB clip / M3 Threaded insert	164A20989X
62	PCB clip / M3 Threaded insert	164A20999X

Plug connector		
No. of pos.	Mounting style	Part Number
15	PCB clip / 4-40 UNC Threaded insert	163A20489X
26	PCB clip / 4-40 UNC Threaded insert	163A20499X
44	PCB clip / 4-40 UNC Threaded insert	163A20509X
62	PCB clip / 4-40 UNC Threaded insert	163A20519X
15	PCB clip / M3 Threaded insert	163A20529X
26	PCB clip / M3 Threaded insert	163A20539X
44	PCB clip / M3 Threaded insert	163A20549X
62	PCB clip / M3 Threaded insert	163A20559X

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



Socket connector		
No. of pos.	Mounting style	Part Number
15	PCB clip / 4-40 UNC Front spacer	164A21009X
26	PCB clip / 4-40 UNC Front spacer	164A21019X
44	PCB clip / 4-40 UNC Front spacer	164A21029X
62	PCB clip / 4-40 UNC Front spacer	164A21039X
15	PCB clip / M3 Front spacer	164A21049X
26	PCB clip / M3 Front spacer	164A21059X
44	PCB clip / M3 Front spacer	164A21069X
62	PCB clip / M3 Front spacer	164A21079X

Plug connector		
No. of pos.	Mounting style	Part Number
15	PCB clip / 4-40 UNC Front spacer	163A20569X
26	PCB clip / 4-40 UNC Front spacer	163A20579X
44	PCB clip / 4-40 UNC Front spacer	163A20589X
62	PCB clip / 4-40 UNC Front spacer	163A20599X
15	PCB clip / M3 Front spacer	163A20609X
26	PCB clip / M3 Front spacer	163A20619 X
44	PCB clip / M3 Front spacer	163A20629X
62	PCB clip / M3 Front spacer	163A20639X

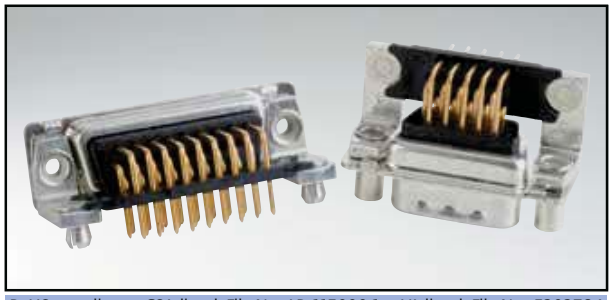
PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

PCB-Layout: Kat1iU1A

PCB-Layout: Kat1iU2A

D-SUB High Density

Solder pin – Angled – .350"/7.98 mm – Precision machined contacts – Metal bracket

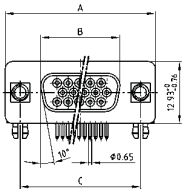


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

- Mounting styles:
  - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
  - with mounting bracket, PCB clip and 4-40 UNC or M3 front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

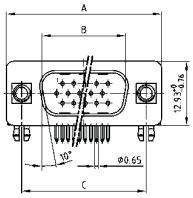
Socket connector



No. of pos.	A -0.76	B -0.25	C
15	31.19	16.46	25.00 +0.12
26	39.52	24.79	33.30 +0.15 -0.10
44	53.42	38.50	47.04 ±0.13
62	69.70	54.96	63.50 ±0.13
78	67.31	52.55	61.10 +0.14 -0.11

PCB-Layout: Kat1iU1A

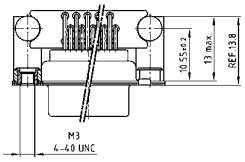
Plug connector



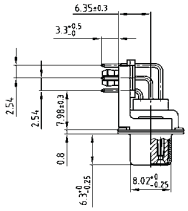
No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 +0.12	6.12
26	39.52	25.12	33.30 +0.15 -0.10	6.12
44	53.42	38.84	47.04 ±0.13	5.99
62	69.70	55.30	63.50 ±0.13	5.99
78	67.31	52.68	61.10 +0.14 -0.11	5.99

PCB-Layout: Kat1iU2A

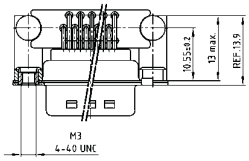
Mounting style: PCB clip, threaded insert



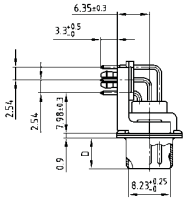
15-62 pos.



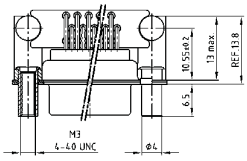
Mounting style: PCB clip, threaded insert



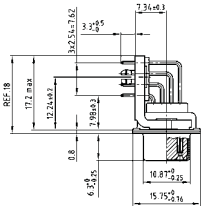
15-62 pos.



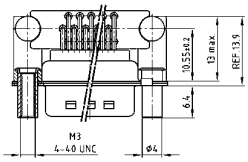
Mounting style: PCB clip, front spacer



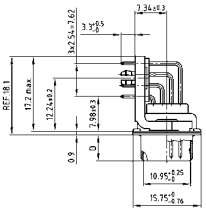
78 pos.



Mounting style: PCB clip, front spacer



78 pos.



Order data

Socket connector

No. of pos.	Mounting style	Part Number
15	PCB clip / 4-40 UNC Threaded insert	164A18179X
26	PCB clip / 4-40 UNC Threaded insert	164A18189X
44	PCB clip / 4-40 UNC Threaded insert	164A18199X
62	PCB clip / 4-40 UNC Threaded insert	164A18209X
78	PCB clip / 4-40 UNC Threaded insert	164A18629X
15	PCB clip / M3 Threaded insert	164A18219X
26	PCB clip / M3 Threaded insert	164A18229X
44	PCB clip / M3 Threaded insert	164A18239X
62	PCB clip / M3 Threaded insert	164A18249X
78	PCB clip / M3 Threaded insert	164A18639X
15	PCB clip / 4-40 UNC Front spacer	164A18259X
26	PCB clip / 4-40 UNC Front spacer	164A18269X
44	PCB clip / 4-40 UNC Front spacer	164A18279X
62	PCB clip / 4-40 UNC Front spacer	164A18289X
78	PCB clip / 4-40 UNC Front spacer	164A18649X
15	PCB clip / M3 Front spacer	164A18299X
26	PCB clip / M3 Front spacer	164A18309X
44	PCB clip / M3 Front spacer	164A18319X
62	PCB clip / M3 Front spacer	164A18329X
78	PCB clip / M3 Front spacer	164A18659X

Plug connector

No. of pos.	Mounting style	Part Number
15	PCB clip / 4-40 UNC Threaded insert	163A17769X
26	PCB clip / 4-40 UNC Threaded insert	163A17779X
44	PCB clip / 4-40 UNC Threaded insert	163A17789X
62	PCB clip / 4-40 UNC Threaded insert	163A17799X
78	PCB clip / 4-40 UNC Threaded insert	163A18219X
15	PCB clip / M3 Threaded insert	163A17809X
26	PCB clip / M3 Threaded insert	163A17819X
44	PCB clip / M3 Threaded insert	163A17829X
62	PCB clip / M3 Threaded insert	163A17839X
78	PCB clip / M3 Threaded insert	163A18229X
15	PCB clip / 4-40 UNC Front spacer	163A17849X
26	PCB clip / 4-40 UNC Front spacer	163A17859X
44	PCB clip / 4-40 UNC Front spacer	163A17869X
62	PCB clip / 4-40 UNC Front spacer	163A17879X
78	PCB clip / 4-40 UNC Front spacer	163A18239X
15	PCB clip / M3 Front spacer	163A17889X
26	PCB clip / M3 Front spacer	163A17899X
44	PCB clip / M3 Front spacer	163A17909X
62	PCB clip / M3 Front spacer	163A17919X
78	PCB clip / M3 Front spacer	163A18249X

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

D-SUB High Density

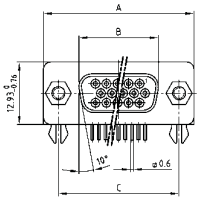
Solder pin – Angled – .350"/7.98 mm – Stamped contacts – Plastic bracket

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

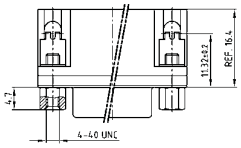
Description

- Mounting styles:
  - with mounting bracket, PCB clip and 4-40 UNC hex bolt
  - with mounting bracket, PCB clip and 4-40 UNC threaded insert
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

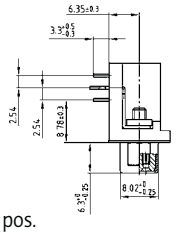
Socket connector



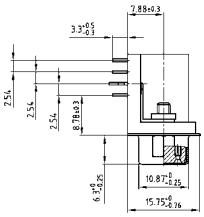
No. of pos.	A -0.76	B +0.25	C
15	31.19	16.46	25.00 +0.12
26	39.52	24.79	33.30 +0.15 -0.10
44	53.42	38.50	47.04 ±0.13
62	69.70	54.96	63.50 ±0.13
78	67.31	52.55	61.10 +0.14 -0.11



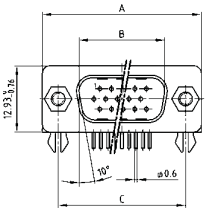
15-62 pos.



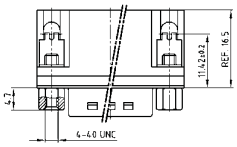
78 pos.



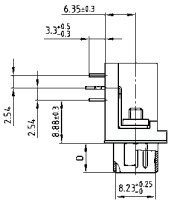
Plug connector



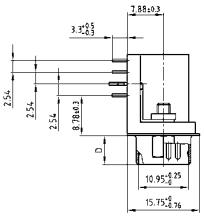
No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 +0.12	6.12
26	39.52	25.12	33.30 +0.15 -0.10	6.12
44	53.42	38.84	47.04 ±0.13	5.99
62	69.70	55.30	63.50 ±0.13	5.99
78	67.31	52.68	61.10 +0.14 -0.11	5.99



15-62 pos.



78 pos.



Order data

Socket connector

No. of pos.	Mounting style 4-40 UNC	Part Number
15	PCB clip / Hex bolt	302A10869X
26	PCB clip / Hex bolt	302A10879X
44	PCB clip / Hex bolt	302A10889X
62	PCB clip / Hex bolt	302A10899X
78	PCB clip / Hex bolt	302A11629X

Plug connector

No. of pos.	Mounting style 4-40 UNC	Part Number
15	PCB clip / Hex bolt	301A10869X
26	PCB clip / Hex bolt	301A10879X
44	PCB clip / Hex bolt	301A10889X
62	PCB clip / Hex bolt	301A10899X
78	PCB clip / Hex bolt	301A11369X

Socket connector

No. of pos.	Mounting style 4-40 UNC	Part Number
15	PCB clip / Threaded insert	DLH1XS8AK53X
26	PCB clip / Threaded insert	DLH2XS8AK53X
44	PCB clip / Threaded insert	DLH3XS8AK53X
62	PCB clip / Threaded insert	DLH4XS8AK53X
78	PCB clip / Threaded insert	DLH5XS8AK53X

Plug connector

No. of pos.	Mounting style 4-40 UNC	Part Number
15	PCB clip / Threaded insert	DLH1XP8AK53X
26	PCB clip / Threaded insert	DLH2XP8AK53X
44	PCB clip / Threaded insert	DLH3XP8AK53X
62	PCB clip / Threaded insert	DLH4XP8AK53X
78	PCB clip / Threaded insert	DLH5XP8AK53X

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

D-SUB High Density

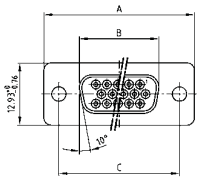
Crimp body (without contacts) – For wire size AWG 28 - 22

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

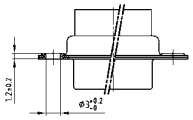
- For wire size **AWG 22** precision machined contacts
- Mounting style:
  with through-hole Ø .118" / 3 mm
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

Socket connector

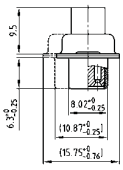


No. of pos.	A -0.76	B -0.25	C
15	31.19	16.46	25.00 +0.12
26	39.52	24.79	33.30 +0.15 -0.10
44	53.42	38.50	47.04 ±0.13
62	69.70	54.96	63.50 ±0.13
78	67.31	52.55	61.10 +0.14 -0.11

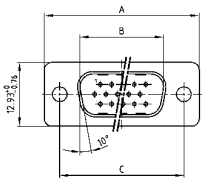
Mounting style: Through-hole



78 pos. = Dim. in (_ _)

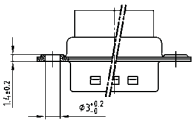


Plug connector

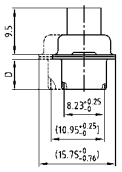


No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 +0.12	6.12
26	39.52	25.12	33.30 +0.15 -0.10	6.12
44	53.42	38.84	47.04 ±0.13	5.99
62	69.70	55.30	63.50 ±0.13	5.99
78	67.31	52.68	61.10 +0.14 -0.11	5.99

Mounting style: Through-hole



78 pos. = Dim. in (_ _)



Order data

Socket connector

No. of pos.	Mounting style	Part Number
15	Through-hole	164X11949X
26	Through-hole	164X11959X
44	Through-hole	164X11969X
62	Through-hole	164X11979X
78	Through-hole	164X11989X

Plug connector

No. of pos.	Mounting style	Part Number
15	Through-hole	163X10169X
26	Through-hole	163X10179X
44	Through-hole	163X10189X
62	Through-hole	163X10199X
78	Through-hole	163X10209X

D-SUB High Density

Crimp Contacts – Screw machine design – For wire size AWG 28 - 22

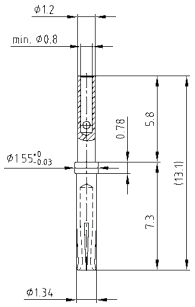
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

Description

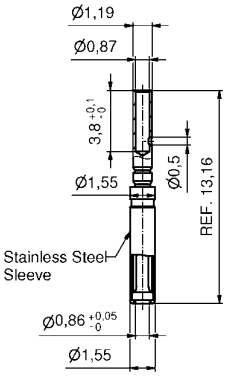
- For wire size **AWG 28-22**
- Loose contacts, in poly bag (500 pieces)
- Quality class 3 (also available in quality class 1)

Socket connector

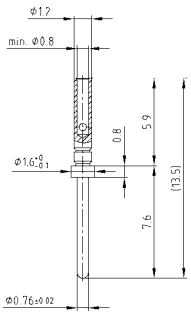
Standard version



Closed entry version



Plug connector



Technical Data	
Contact material Precision machined contacts	Brass
Contact plating	Gold plated over nickel
Temperature range	-55°C to +125°C
Rated current for AWG 24	3 A
Contact resistance	≤ 10 mΩ

Order data

Female contacts

Contact type	Part Number
AWG 22/Loose contact	162A18419X
AWG 22/Loose contact closed entry version	16-000693

Male contacts

Contact type	Part Number
AWG 22/Loose contact	161A18009X

D-SUB High Density

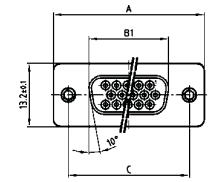
Interface adapter – Connector Saver

RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

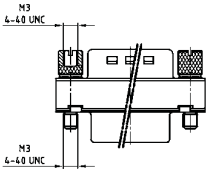
Description

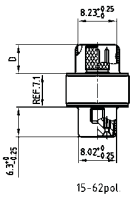
- Variation plug to socket
- Precision machined contacts
- Threaded lock, 4-40 UNC or M3, on the plug side
- Threaded lock on the socket side available on request
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated

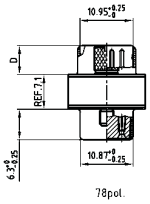
Product drawing

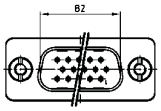


No. of pos.	A -0.76	B1 -0.25	B2 +0.25	C	D -0.30
15	31.19	16.46	16.79	25.00 +0.12	6.12
26	39.52	24.79	25.12	33.30 +0.15 -0.10	6.12
44	53.42	38.50	38.84	47.04 ±0.13	5.99
62	69.70	54.96	55.30	63.50 ±0.13	5.99
78	67.31	52.55	52.68	61.10 +0.14 -0.1	5.99









Order data

Plug connector – Socket connector		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Threaded lock	164A03399X
26	4-40 UNC Threaded lock	164A03919X
44	4-40 UNC Threaded lock	164A03929X
62	4-40 UNC Threaded lock	164A03939X
78	4-40 UNC Threaded lock	DAH5XAAAR04X

Plug connector – Socket connector		
No. of pos.	Mounting style	Part Number
15	M3 Threaded lock	164A03949X
26	M3 Threaded lock	164A03959X
44	M3 Threaded lock	164A03969X
62	M3 Threaded lock	164A03979X
78	M3 Threaded lock	DAH5XAAAR03X

D-SUB Standard

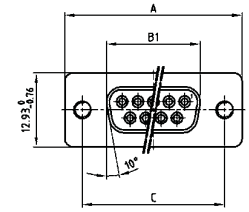
Interface adapter – Connector Saver

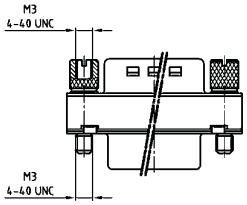
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

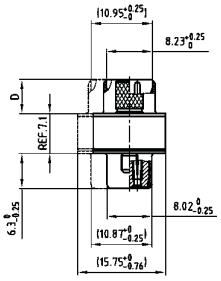
Description

- Variation plug to socket
- Precision machined contacts
- Threaded lock, 4-40 UNC or M3, on the plug side
- Threaded lock on the socket side available on request
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated

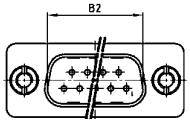
Product drawing







50 pos. = Dim. in (_ _)



No. of pos.	A -0.76	B1 -0.25	B2 +0.25	C	D -0.30
09	31.19	16.46	16.79	25.00 +0.12	6.12
15	39.52	24.79	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.50	38.84	47.04 ±0.13	5.99
37	69.70	54.96	55.30	63.50 ±0.13	5.99
50	67.31	52.55	52.68	61.10 +0.14 -0.1	5.99

Order data

Plug connector – Socket connector

No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded lock	163A50009X
15	4-40 UNC Threaded lock	163A50019X
25	4-40 UNC Threaded lock	163A50029X
37	4-40 UNC Threaded lock	163A50039X
50	4-40 UNC Threaded lock	163A50049X

Plug connector – Socket connector

No. of pos.	Mounting style	Part Number
09	M3 Threaded lock	163A50059X
15	M3 Threaded lock	163A50069X
25	M3 Threaded lock	163A50079X
37	M3 Threaded lock	163A50089X
50	M3 Threaded lock	163A50099X

D-SUB Standard

Interface adapter – Gender Changer – Configuration of contacts 1:1

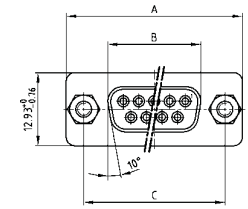
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

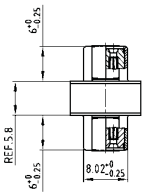
Description

- Variation plug to plug and socket to socket
- Stamped contacts
- 4-40 UNC threaded lock
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

Socket connector

Variation socket to socket

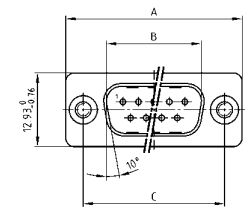


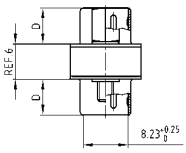


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 +0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

Plug connector

Variation plug to plug





No. of pos.	A -0.76	B +0.25	C	D -0.30
09	31.19	16.79	25.00 +0.12	16.46
15	39.52	25.12	33.30 +0.15 +0.10	24.79
25	53.42	38.84	47.04 ±0.13	38.50
37	69.70	55.30	63.50 ±0.13	54.96

Order data

Socket connector – socket connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded lock	320X12519X
15	Threaded lock	320X12539X
25	Threaded lock	320X10559X
37	Threaded lock	320X12559X

Plug connector – Plug connector		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded lock	320X12509X
15	Threaded lock	320X12529X
25	Threaded lock	320X10549X
37	Threaded lock	320X12549X

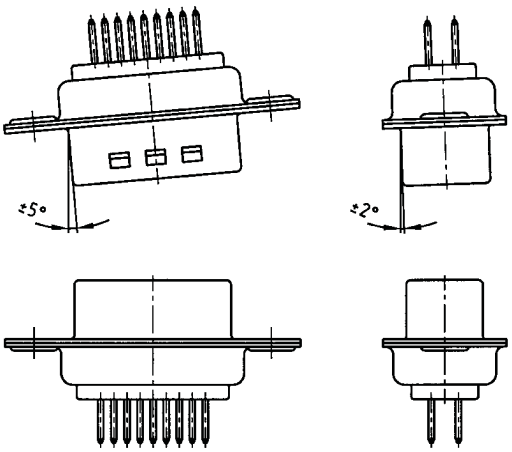
Technical Data

Materials	D-Subminiature, Standard 9, 15, 25, 37 and 50 position	D-Subminiature, High Density 15, 26, 44, 62 and 78 position
Insulator	Polyester GF UL94 V-0	
Contacts	CU alloy	
Contact plating	Gold plated over nickel	
Shell	Steel tin plated (on request: brass tin plated / stainless steel)	
Mechanical and electrical characteristics		
Test voltage U eff / NN	1000 V	
Working voltage	125 V ≈	60 V ≈
	Depending on isolation coordination (refer to DIN VDE 0110 / IEC 664-1)	
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 per DIN 41652, Part 2	
Insulation resistance	≥5 GΩ	
Clearance and creepage distance	Contact – contact ≥ 0.04"/1.0 mm Contact – earth ≥ .047"/1.2 mm	≥ .024"/0,6 mm
Operating temperature	- 55 °C to + 125 °C	
Mating and unmating forces	9 pos. ≤ 30 N 15 pos. ≤ 50 N 25 pos. ≤ 83 N 37 pos. ≤ 123 N 50 pos. ≤ 167 N	15 pos. ≤ 50 N 26 pos. ≤ 84 N 44 pos. ≤ 120 N 62 pos. ≤ 170 N 78 pos. ≤ 200 N
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles	

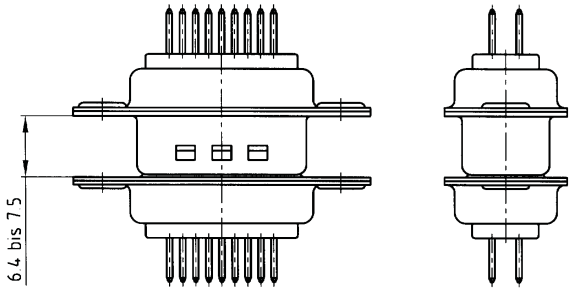
Technical specifications are subject to change without notice.

Mating conditions

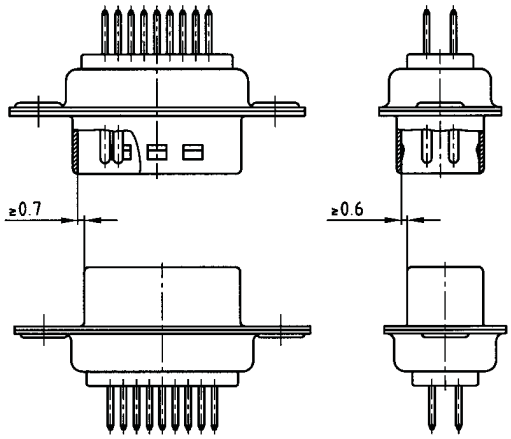
Float mount tolerance guide



Rigid mount vertical to tolerance guide

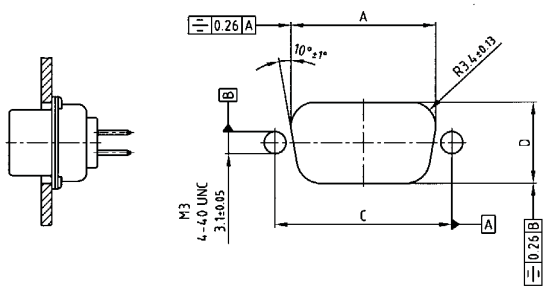


Rigid mount tolerance guide

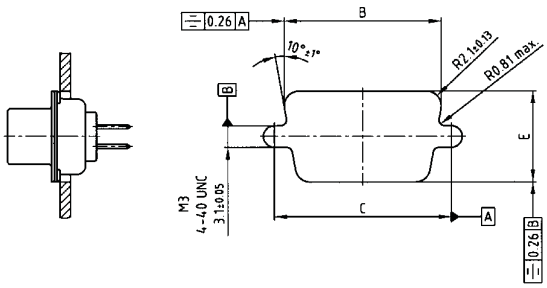


Panel cut-out

Rear panel mounting



Front panel mounting

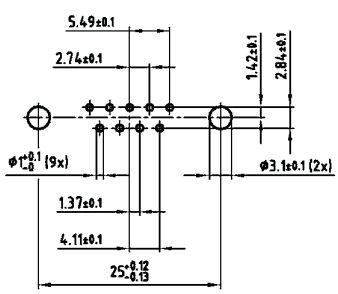


Shell size		A ± 0,13	B ± 0,13	C ± 0,13	D ± 0,13	E ± 0,13
9	15	20.50	22.20	25.00	11.40	13.00
15	26	28.80	30.50	33.30	11.40	13.00
25	44	42.50	44.30	47.04	11.40	13.00
37	62	59.10	60.70	63.50	11.40	13.00
50	78	56.30	61.10	61.10	11.40	15.80

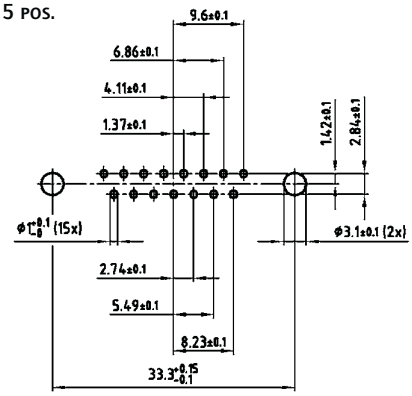
PCB layout D-SUB Standard

Solder pin, straight – Plug and Socket connector

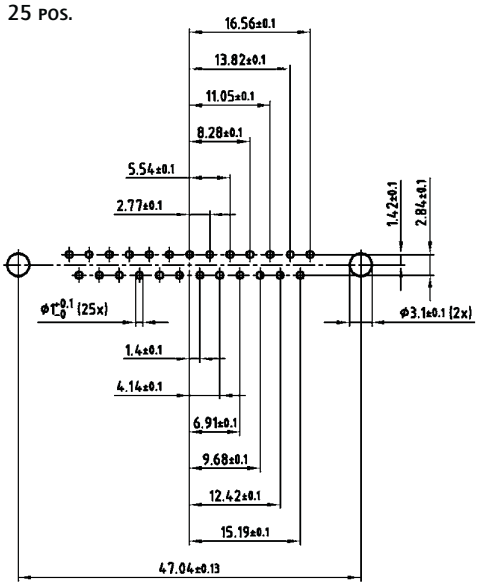
9 pos.



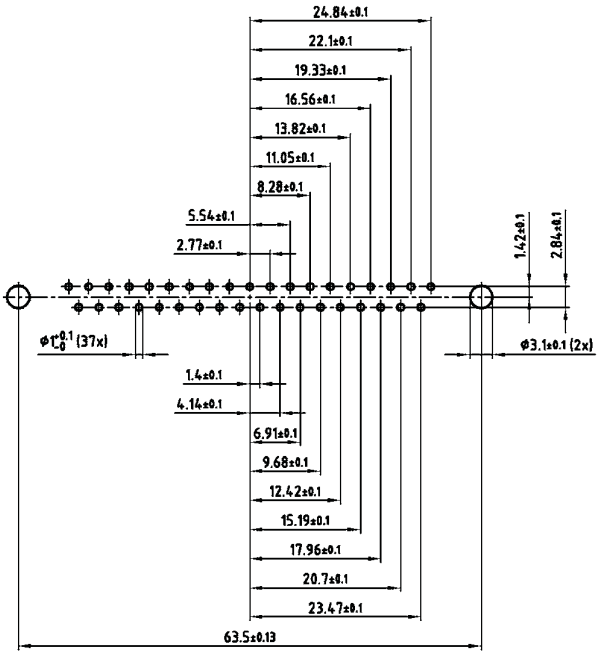
15 pos.



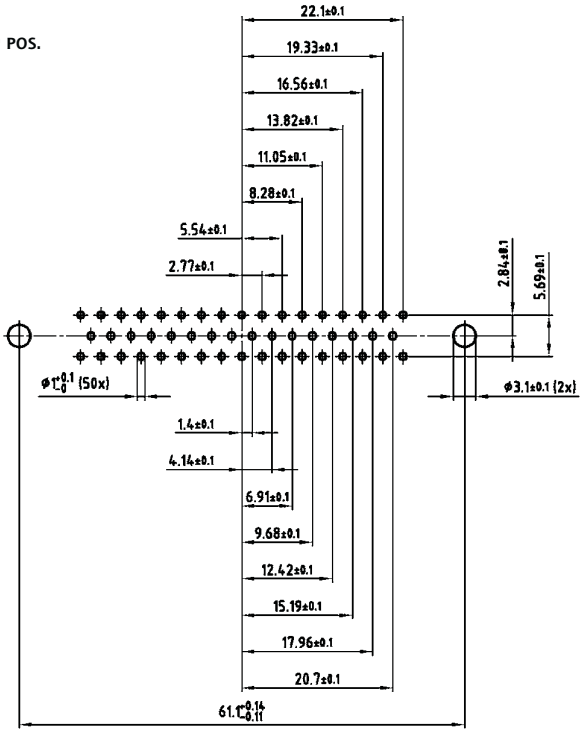
25 pos.



37 pos.



50 pos.

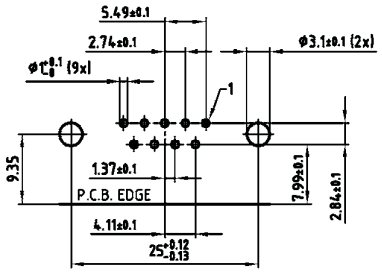


PCB layout Kat1kFUA (View: component side)

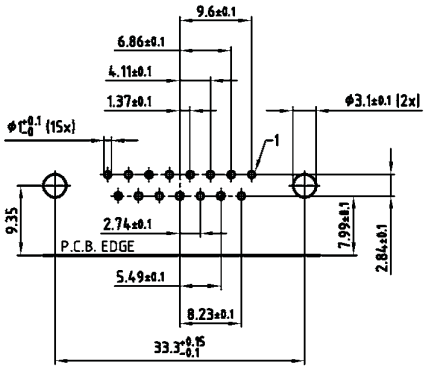
PCB layout D-SUB Standard

Solder pin, angled – .318" / 7.19 mm – Socket connector

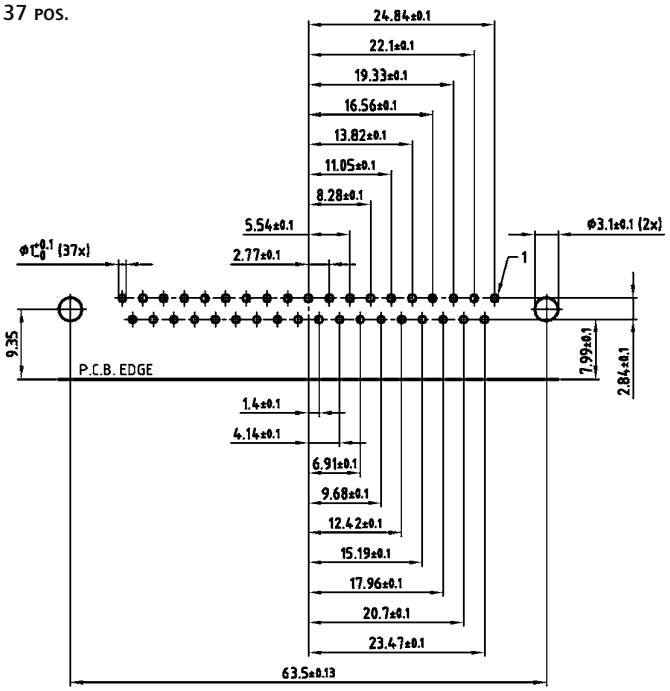
9 pos.



15 pos.



37 pos.



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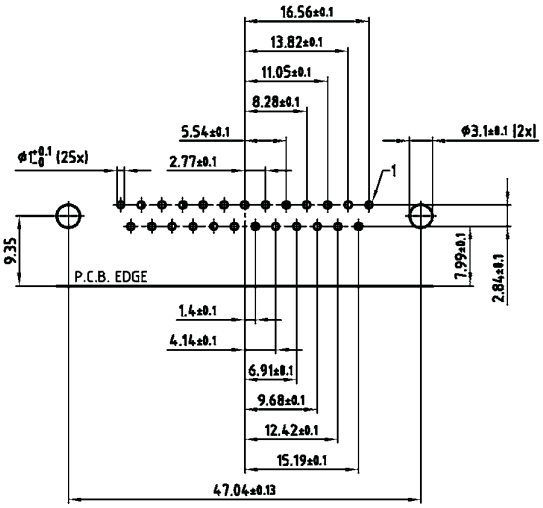
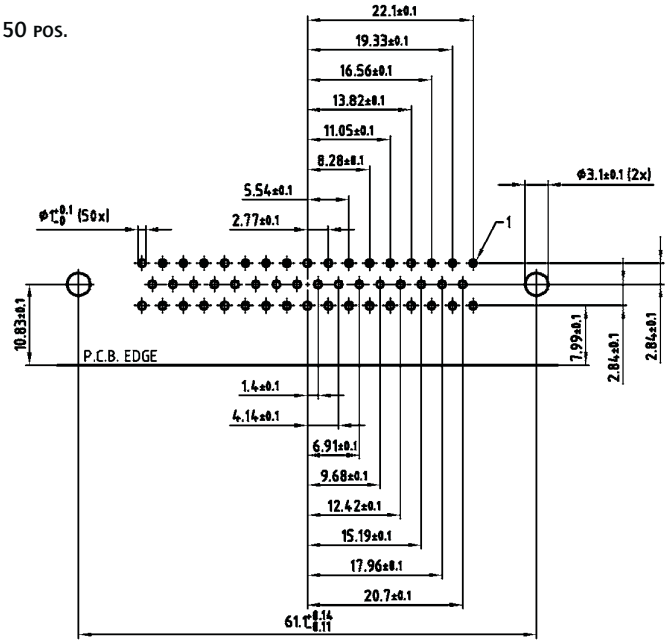


50 pos.

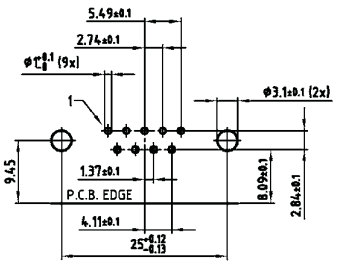


PCB layout Kat1kGEA (View: component side)

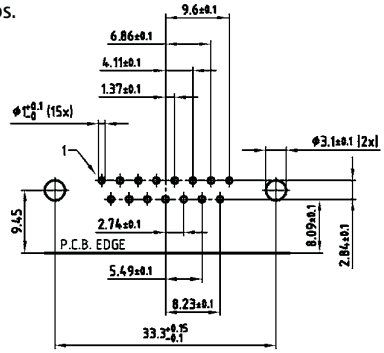
PCB layout D-SUB Standard

Solder pin, angled – .318" / 7.19 mm – Plug connector

9 pos.



15 pos.



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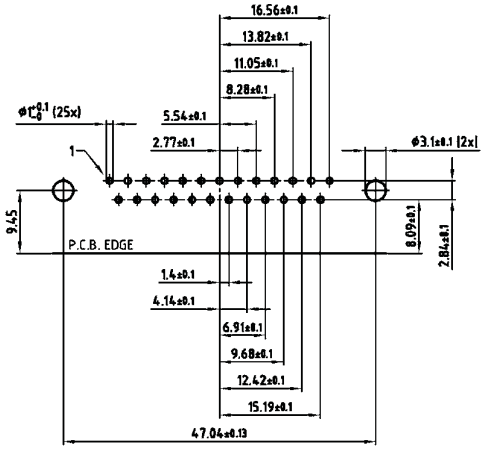
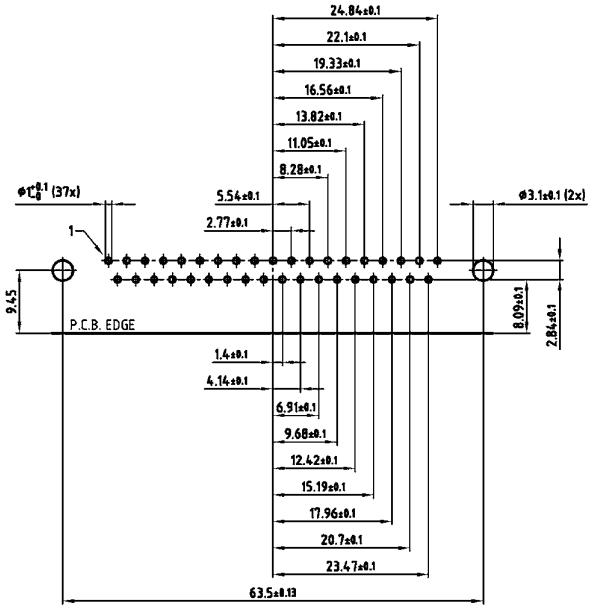
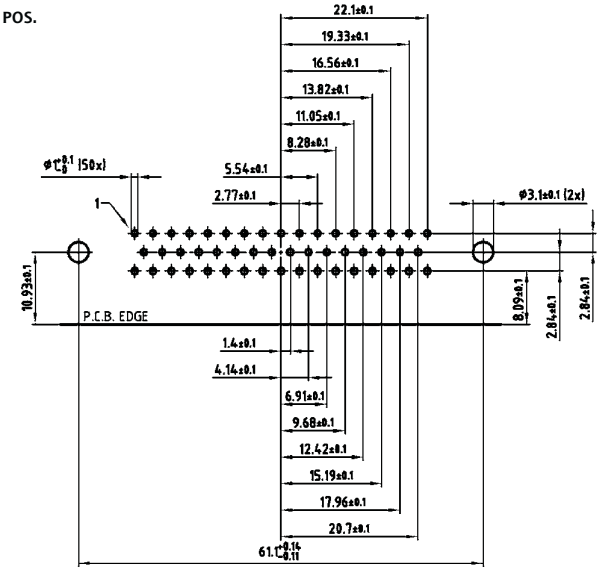


37 pos.



50 pos.

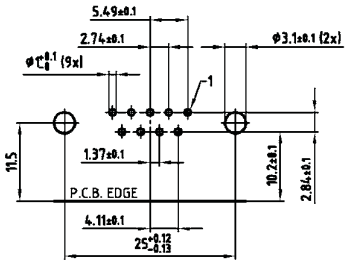


PCB layout Kat1kGFA (View: component side)

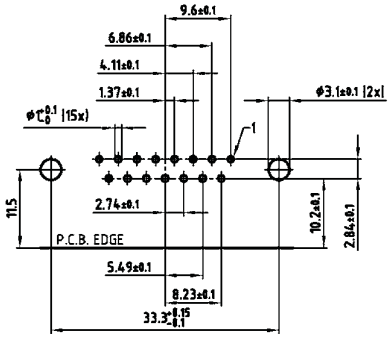
PCB layout D-SUB Standard

Solder pin, angled – .370" / 9.4 mm – Socket connector

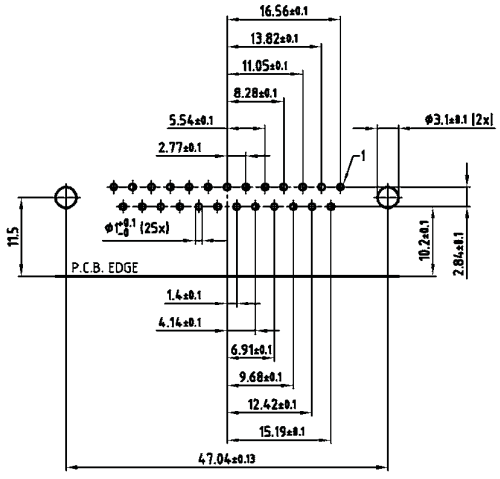
9 pos.



15 pos.



25 pos.



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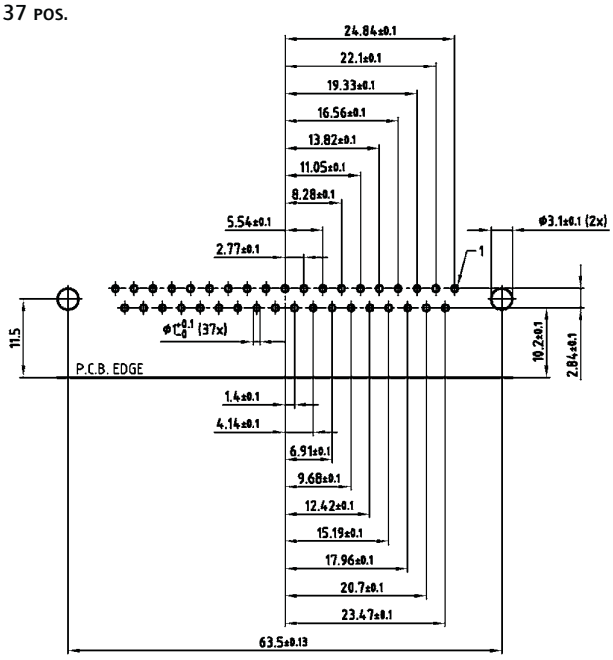

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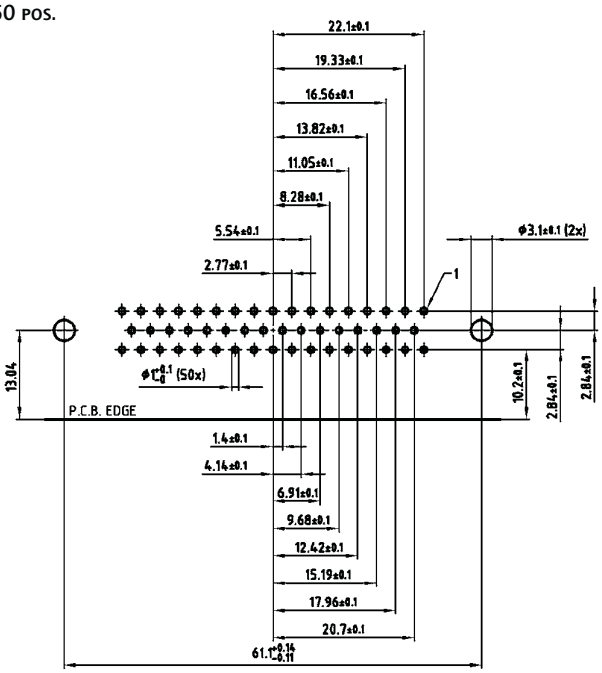
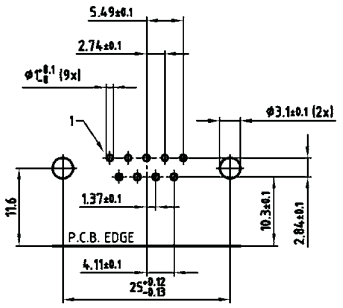


PCB layout Kat1kGGA (View: component side)

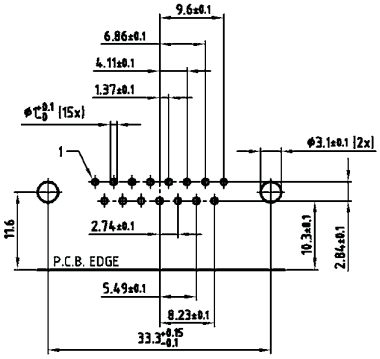
PCB layout D-SUB Standard

Solder pin, angled – .370" / 9.4 mm – Plug connector

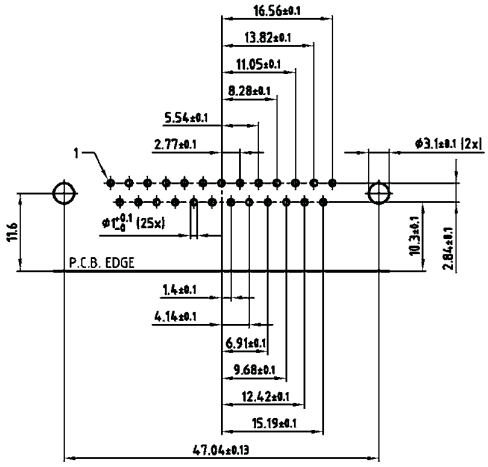
9 pos.



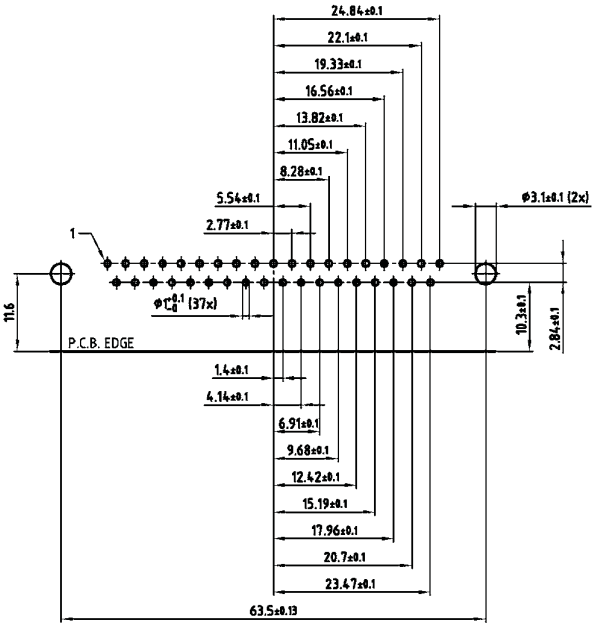
15 pos.



25 pos.



37 pos.



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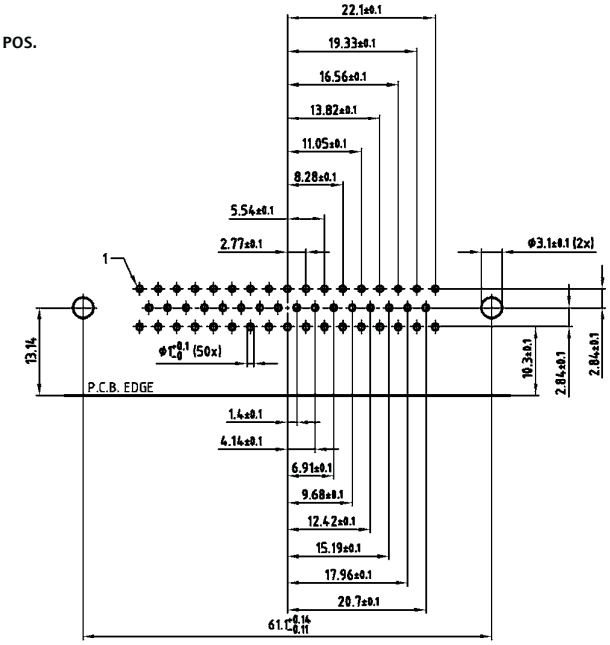
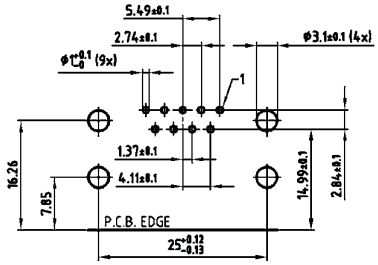


PCB layout Kat1kGHA (View: component side)

PCB layout D-SUB Standard

Solder pin, angled – .590" / 14.19 mm – Metal bracket – Socket connector

9 pos.



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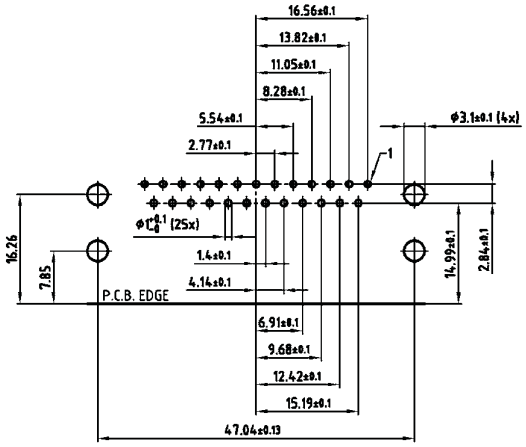

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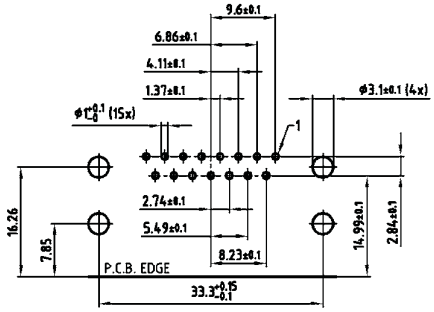
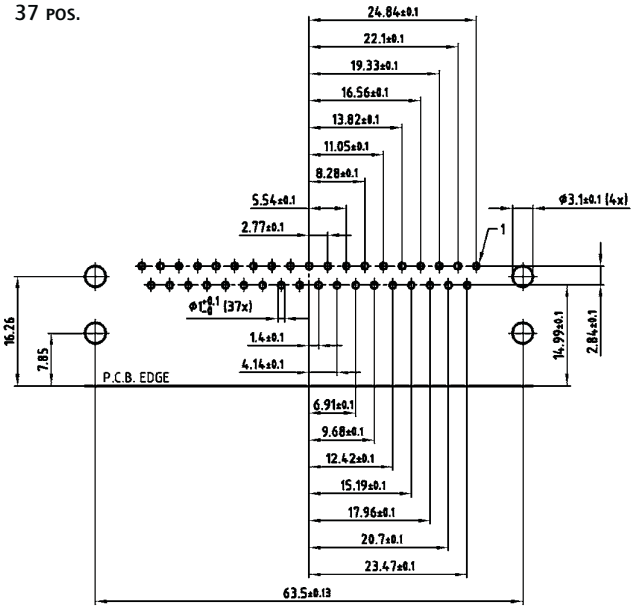


37 pos.

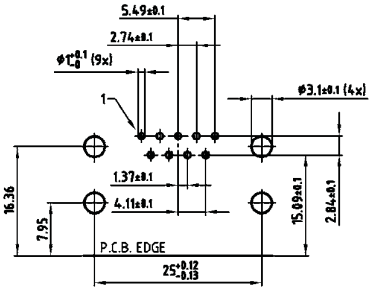


PCB layout Kat1kGIA (View: component side)

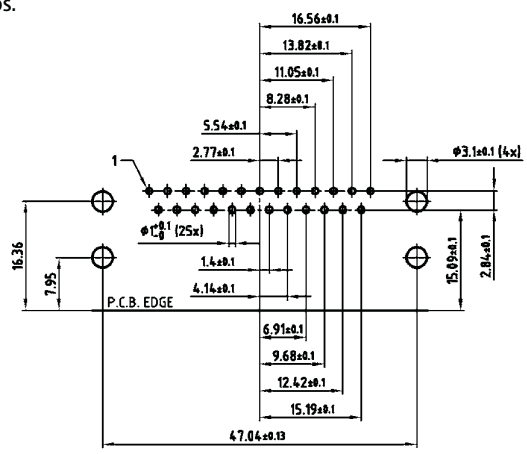
PCB layout – D-SUB Standard

Solder pin, angled – .590" / 14.19 mm – Metal bracket – Plug connector

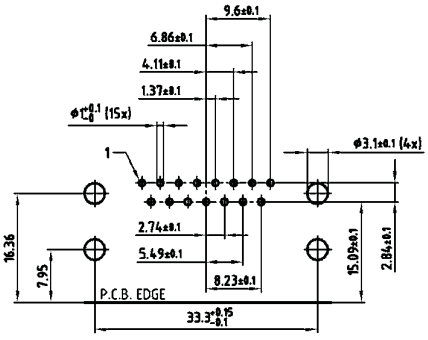
9 pos.



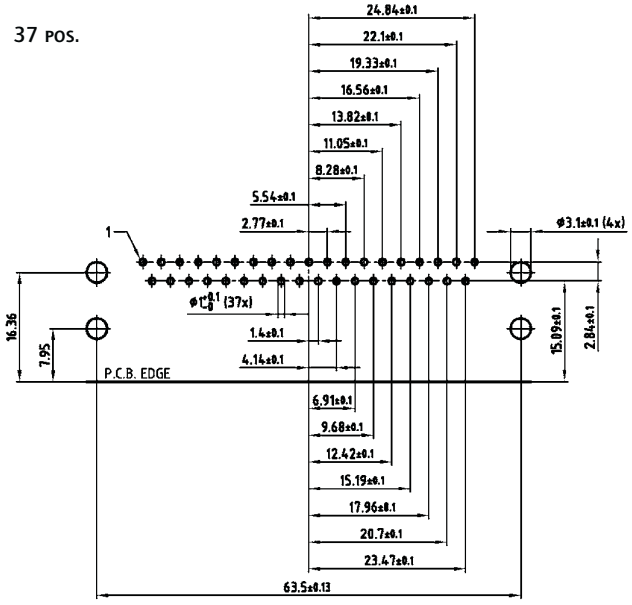
25 pos.



15 pos.



37 pos.

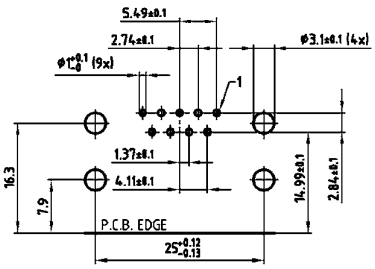


PCB layout Kat1kGJA (View: component side)

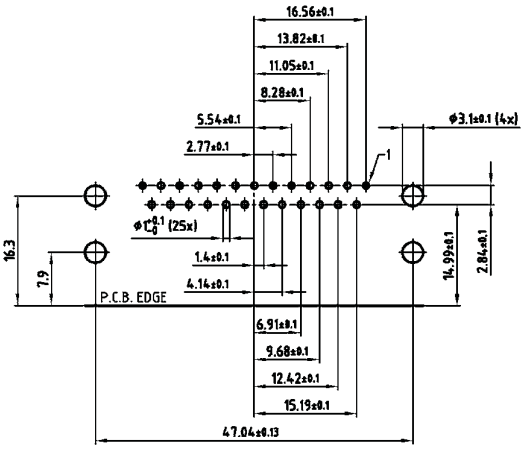
PCB layout D-SUB Standard

Solder pin, angled – .590" / 14.19 mm – Plastic bracket – Socket connector

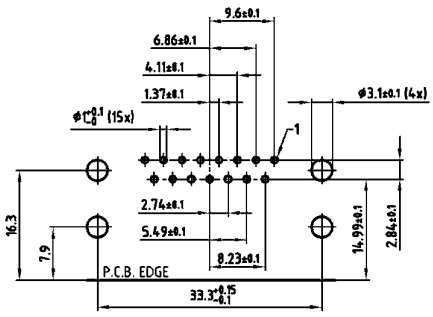
9 pos.



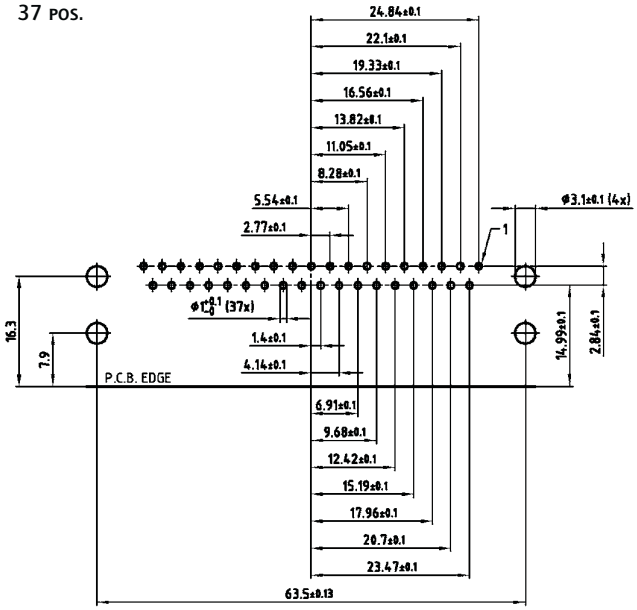
25 pos.



15 pos.



37 pos.

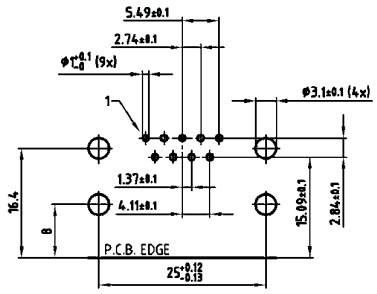


PCB layout Kat1kGKA (View: component side)

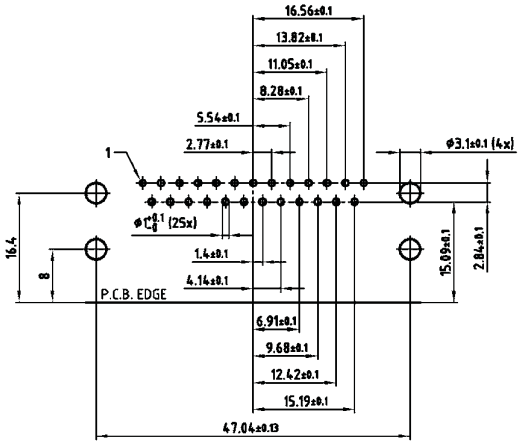
PCB layout D-SUB Standard

Solder pin, angled – .590" / 14.19 mm – Plastic bracket – Plug connector

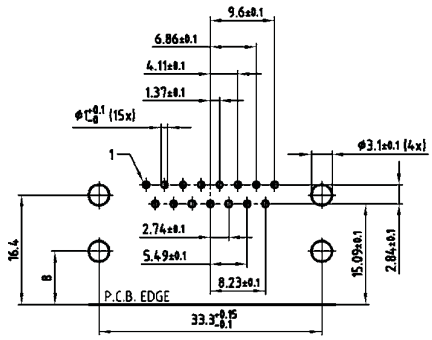
9 pos.



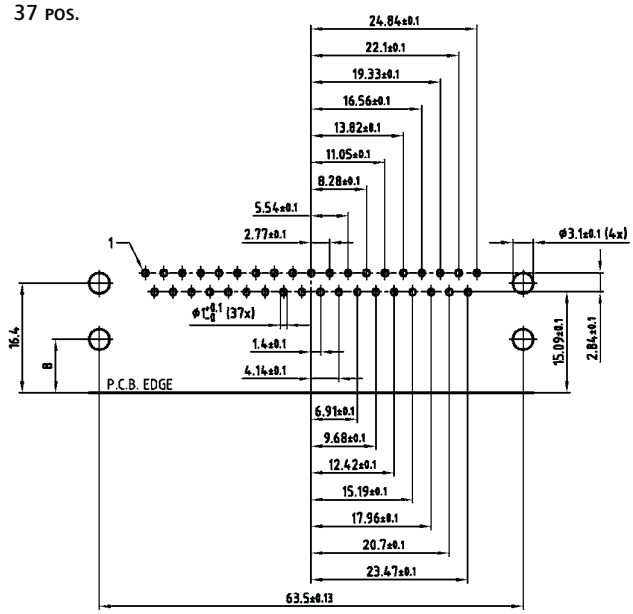
25 pos.



15 pos.



37 pos.

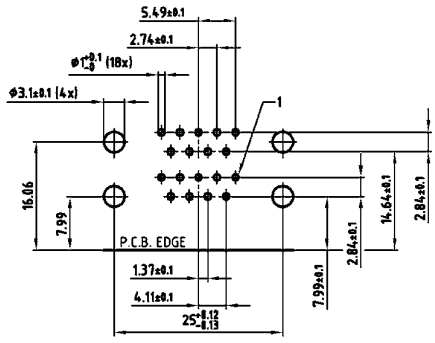


PCB layout Kat1kGLA (View: component side)

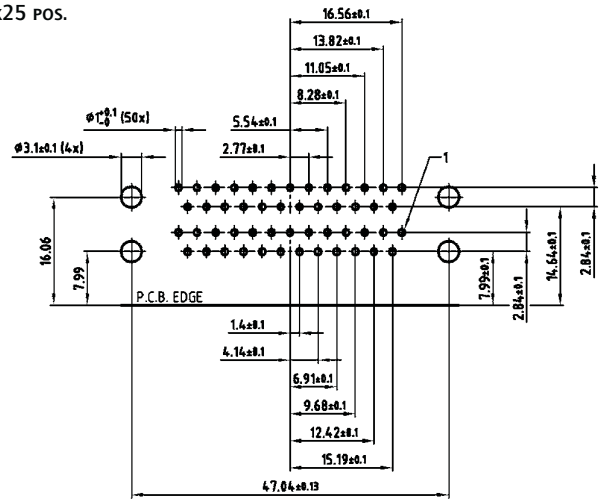
PCB layout D-SUB Standard

Dual port style – Socket connector bottom

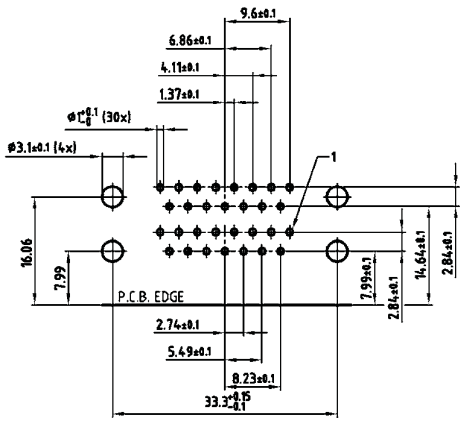
2x9 pos.



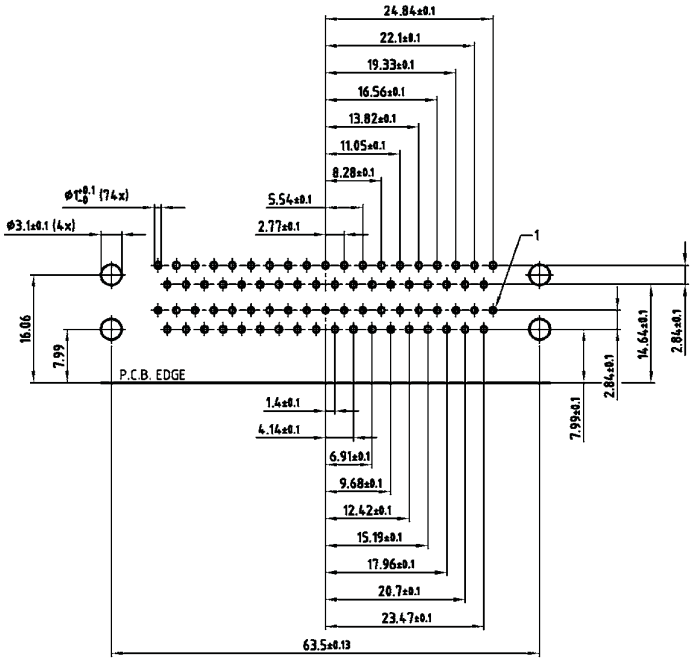
2x25 pos.



2x15 pos.



2x37 pos.

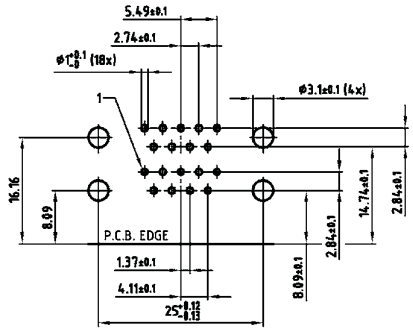


PCB layout Kat1iU6A (View: component side)

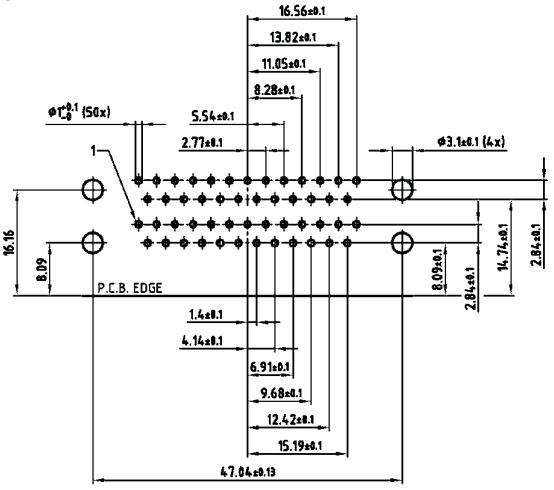
PCB layout D-SUB Standard

Dual port style – Plug connector bottom

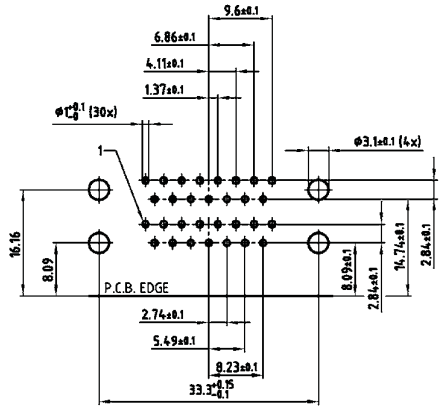
2x9 pos.



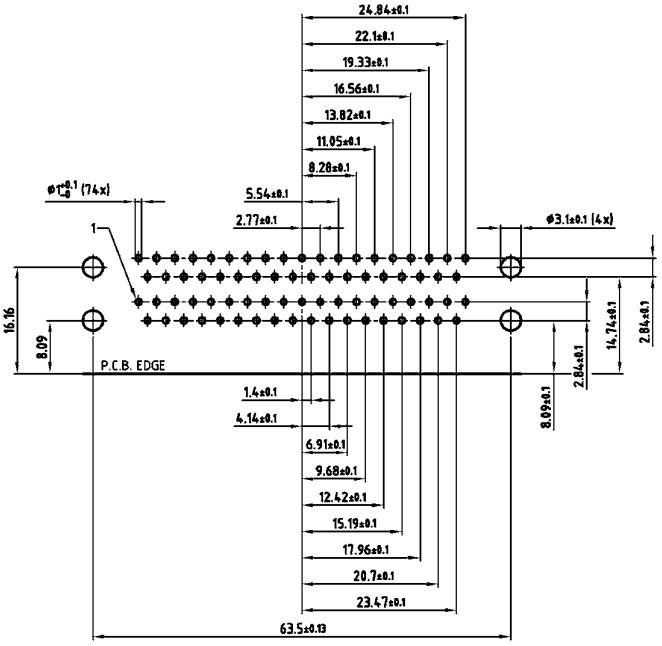
2x25 pos.



2x15 pos.



2x37 pos.

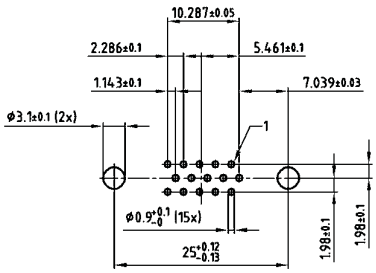


PCB layout Kat1iU5A (View: component side)

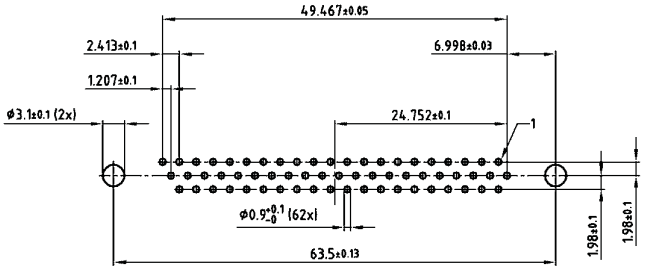
PCB layout D-SUB High Density

Solder pin, straight – Socket connector

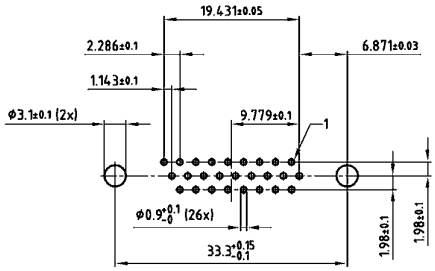
15 pos.



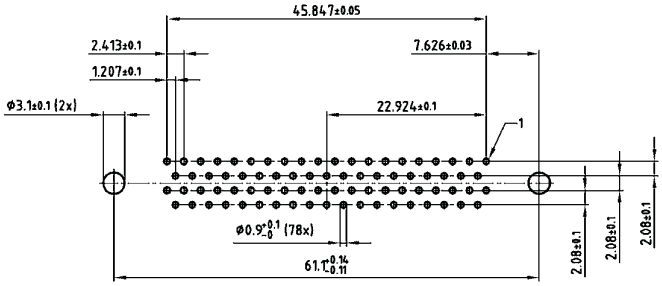
62 pos.



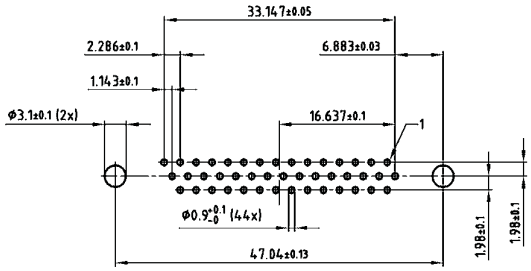
26 pos.



78 pos.



44 pos.

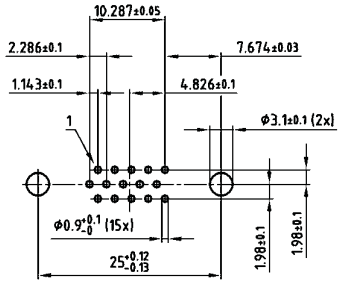


PCB layout Kat1iT9A (View: component side)

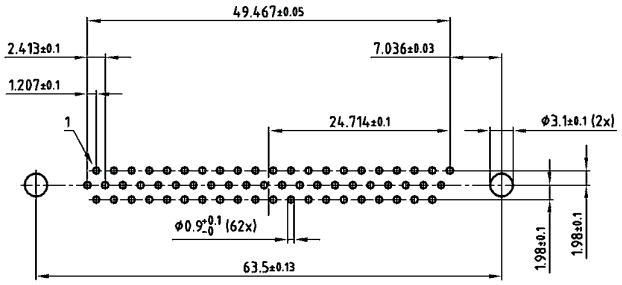
PCB layout D-SUB High Density

Solder pin, straight – Plug connector

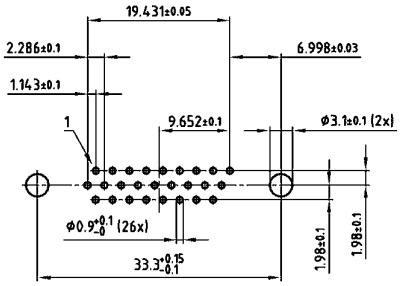
15 pos.



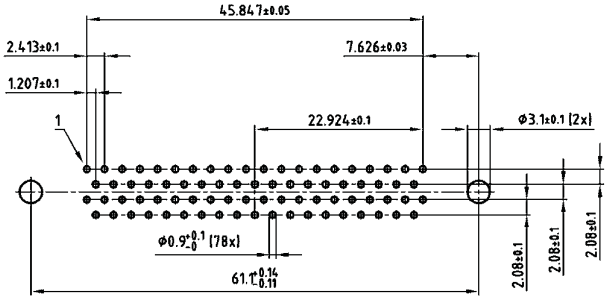
62 pos.



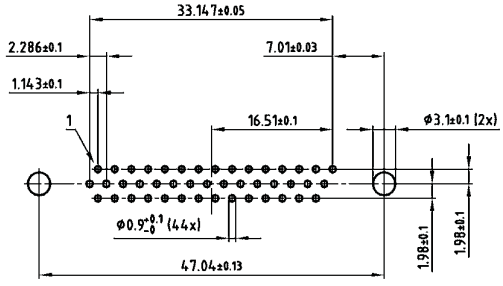
26 pos.



78 pos.



44 pos.

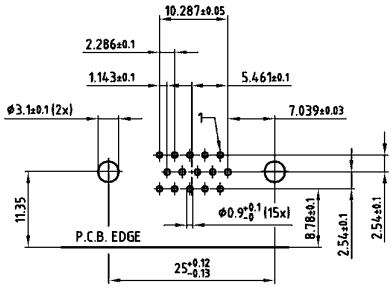


PCB layout Kat1iU0A (View: component side)

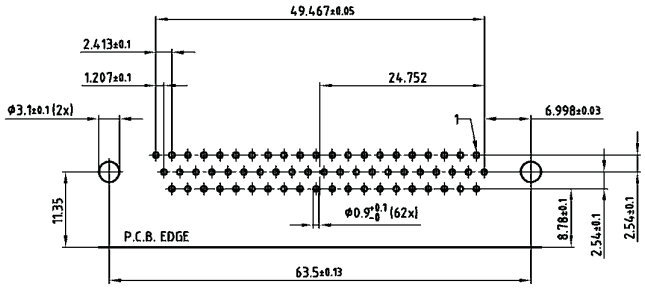
PCB layout D-SUB High Density

Solder pin, angled – .350" / 7.98 mm – Socket connector

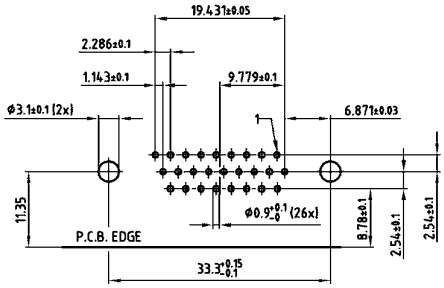
15 pos.



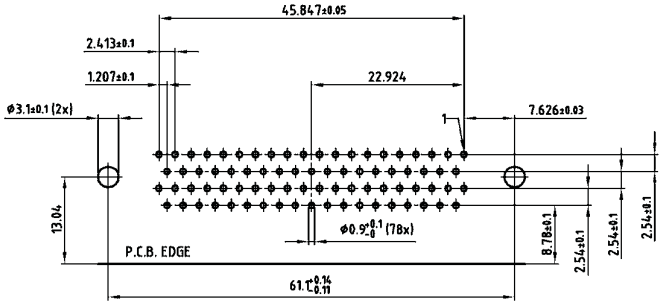
62 pos.



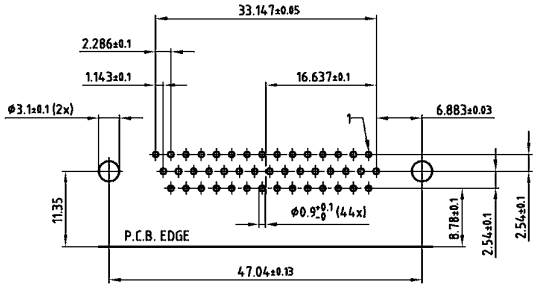
26 pos.



78 pos.



44 pos.

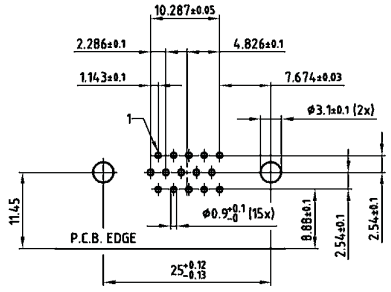


PCB layout Kat1iU1A (View: component side)

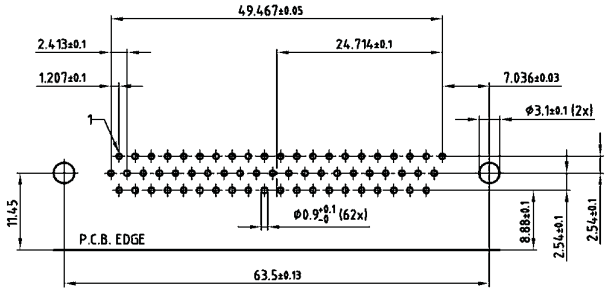
PCB layout D-SUB High Density

Solder pin, angled – .350" / 7.98 mm – Plug connector

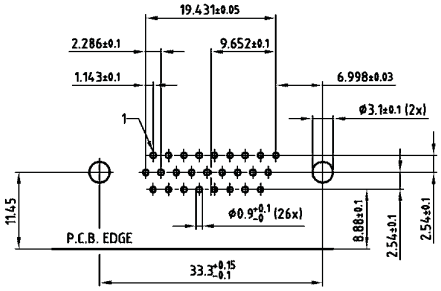
15 pos.



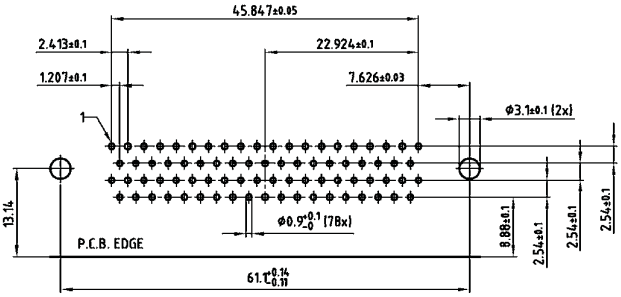
62 pos.



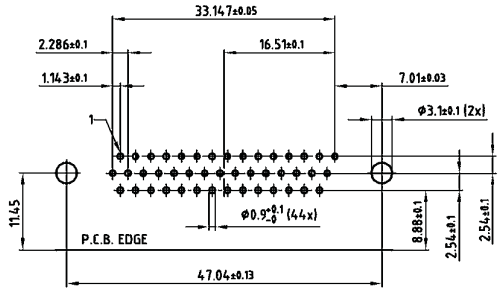
26 pos.



78 pos.



44 pos.



PCB layout Kat1iU2A (View: component side)