



CANADA



USA

CONEC designs and manufactures products in modern facilities. The products are made in accordance to the highest quality standards and industry specifications.

CONEC provides reliable and effective solutions to OEM, EMS and cable houses.



OUR PHILOSOPHY – CUSTOMER SATISFACTION.



Quality is realized right from the beginning with Total Quality Management concept. Therefore our customers are included into all our processes, starting with design phase, first sampling, series production release and continuous sales support. The phases will be accompanied by drawings, samples and test reports. The entire quality process is documented and approved. CONEC is certified to ISO/TS16949:2002.

CONEC inhouse is equipped with modern test systems. We can verify the requirements and implement a continuous product improvement process to meet and exceed future requirements. To fulfill international and national requirements most of CONEC product series are registered by UL, CSA or VDE



CONEC IS YOUR SPECIALIST FOR DESIGN AND PRODUCTION OF SPECIAL CUSTOMIZED PRODUCTS.

Flexibility, assurance and rapid response are required in today's market more than ever before. CONEC fulfills these demands with central order-processing and well implemented quality control systems. Statistical process control as well as just in time deliveries are a common practice. Numerous customers honored this performance by approving CONEC to a "Preferred Supplier" status.



Are you looking for application-specific solutions?
Standard products do not meet your needs?
The implementation deadline is tight?

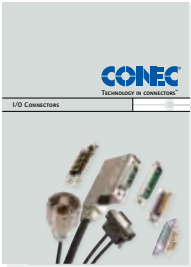
CONEC experienced design team can create your solution for you:

- Special Interconnect solutions to customers specifications
- Prototypes and small series production batches
- Connectors with increased IP ratings for harsh environments.

Contact us to discuss your special requirements.



PRODUCT LINES



I/O Connectors

D-SUB connectors, Standard, Combination and Water Resistant; D-SUB Hoods and D-SUB accessories; Filter D-SUB Connectors, Standard, Combination and Water Resistant; Filter Adapters; Filter Plates; RJ45-IP67 Industrial Ethernet Connector System; USB 2.0-IP67 Connector System; RJ45 Magnetic Modular Jacks



Embedded Connectors

DIN 41617 Connectors; DIN EN 60603-2 Connectors; DIN 41651 Insulation Displacement Connectors CompactPCI Connectors; AdvancedTCA Connectors; MicroTCA Connectors; PC104-, PC104+ Connectors



Sensor Actor Line / Circular Connectors

M12x1 Connectors, Overmolded and Field Attachable, Sockets, Junction Boxes, M12x1 Connector Systems for High Temperature, Food+Beverage, Bus Systems; M8x1 Overmolded Connectors; 7/8" Connectors; Rund24 Connectors; Valve Connectors



Fiber Optic

connectors; Adapter; Hybrid Adapter; Outdoor Connectors; Patch cords



Coaxial Connectors

SMA, SSMA, MMCX, TNC, N, MCX, Mixed Adapters und BNC connectors; D-SUB and DIN Coaxial Contacts; D-SUB and DIN High-Current Contacts

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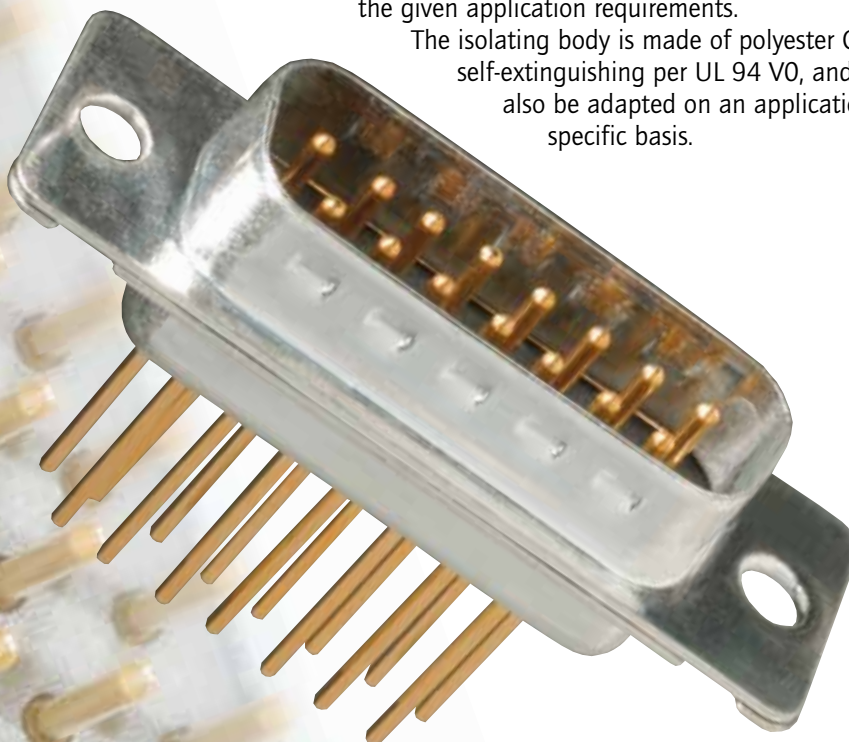
SECTION 1

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.

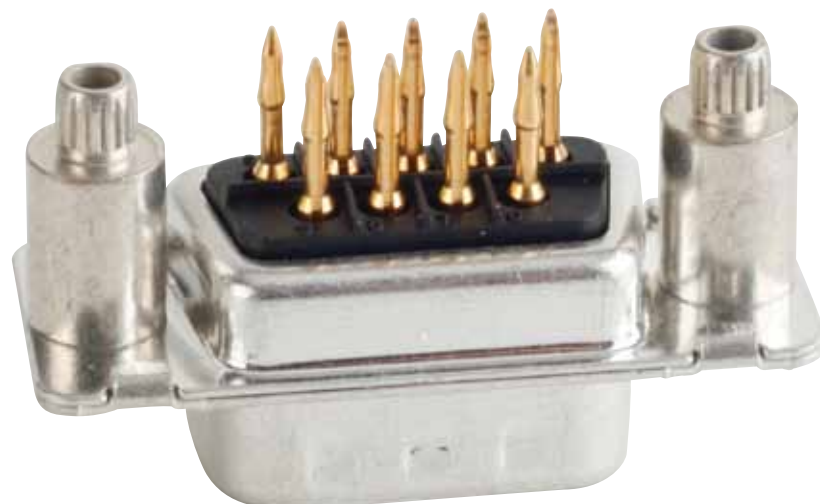




The trapezoid shaped housing (shell) provides mechanical protection, electrical shielding and ensures proper plug-in alignment. CONEC connectors are compatible with industry standards. Hoods and Backshells are configured for either straight or side cable entry.

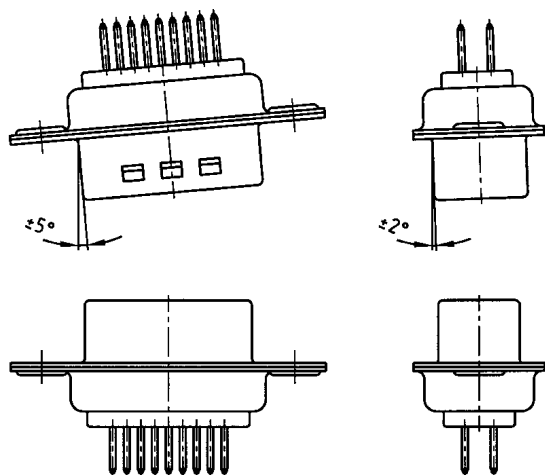
An extensive assortment consisting of protective caps, hard ware and latches can be supplied.

Need a custom design? Please contact us.

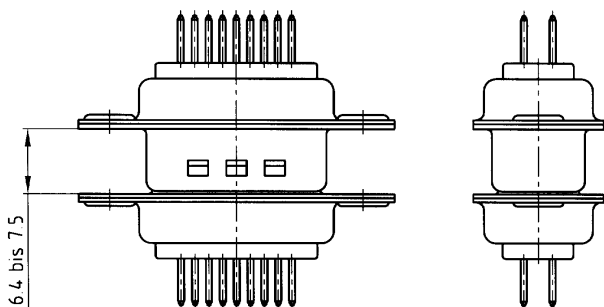


MATING CONDITIONS

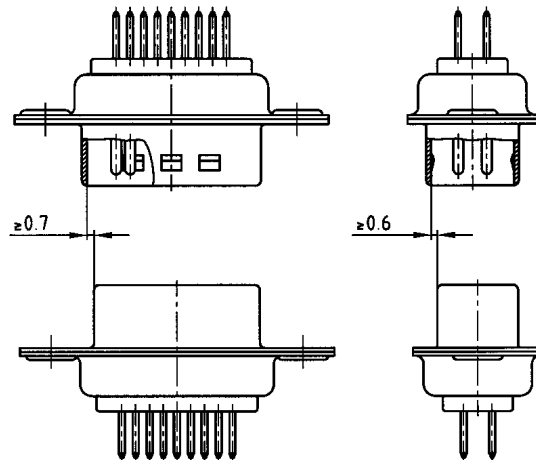
Float mount tolerance guide



Rigid mount vertical to tolerance guide

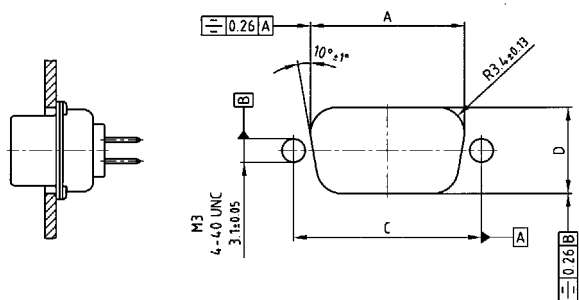


Rigid mount tolerance guide

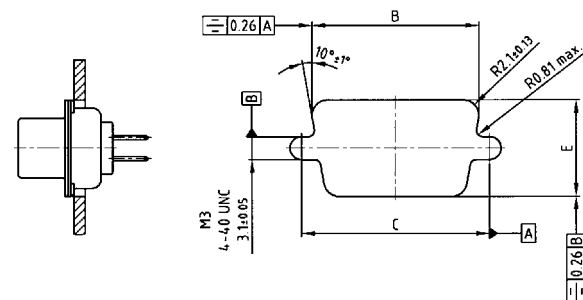


PANEL CUT-OUT

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
15	26	28.80	30.50	33.30	11.40
25	44	42.50	44.30	47.04	11.40
37	62	59.10	60.70	63.50	11.40
50	78	56.30	61.10	61.10	11.40

TECHNICAL DATA

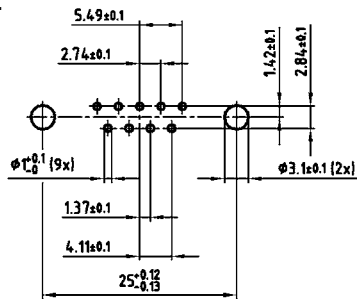
Materials	D-Subminiature, Standard 9, 15, 25, 37 and 50 position	D-Subminiature, High Density 15, 26, 44, 62 and 78 position
Insulator	Polyester GF UL94 V-0	
Contacts	CU alloy	
Contact plating	Gold plated over nickel	
Shell	Steel tin plated / brass tin plated / stainless steel	
Mechanical and electrical characteristics		
Test voltage U eff / NN	1000 V	
Working voltage	125 V \approx Depending on isolation coordination (refer to DIN VDE 0110 / IEC 664-1)	60 V \approx
Current rating	7,5 A (UL) / 5 A (CSA,VDE)	3 A (UL,VDE) / 2,5 A (CSA)
Contact resistance	Max. 10 m Ω prior to stressing, Δ R max. 10 m Ω after stressing per DIN 41652, Part 2	
Insulation resistance	≥ 5 G Ω	
Clearance and creepage distance	Contact – contact $\geq .004''/1.0$ mm Contact – earth $\geq .047''/1.2$ mm	$\geq .024''/0,6$ 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. ≤ 70 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 alterations are subject to change without notice.

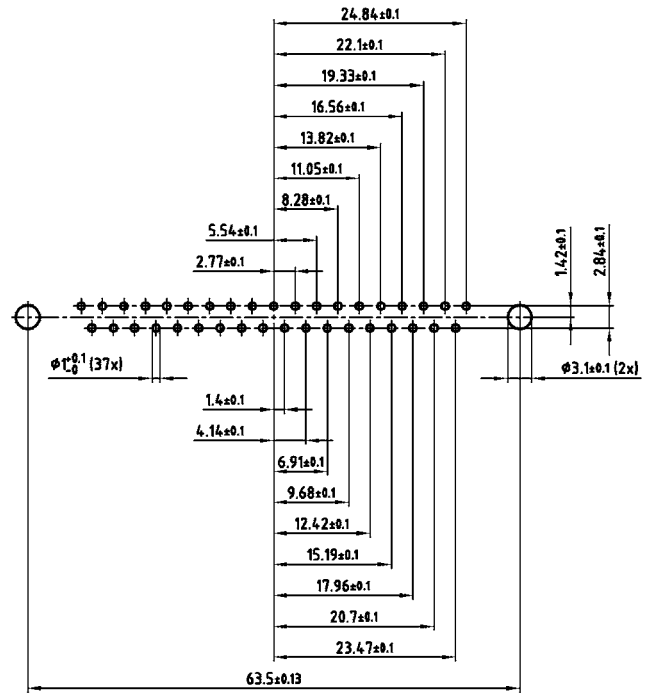
PCB LAYOUT, D-SUB STANDARD

Solder pin, straight – Plug and Socket connector

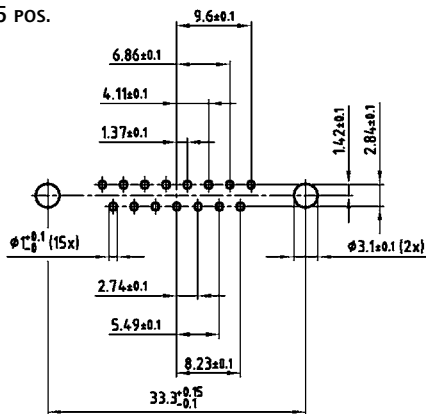
9 POS.



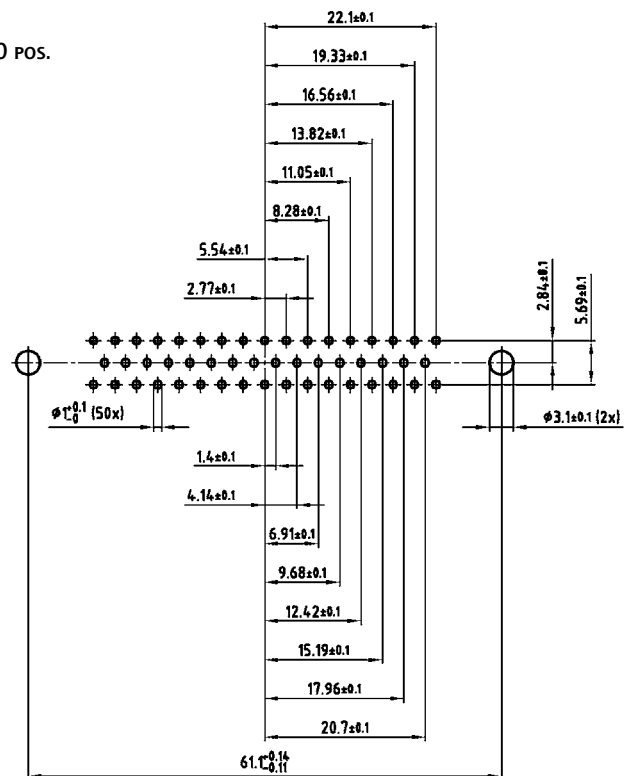
37 POS.



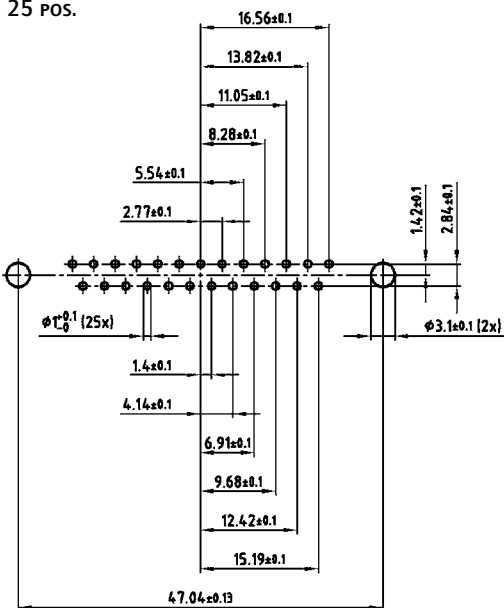
15 POS.



50 POS.



25 POS.

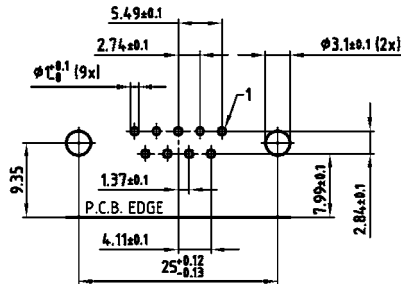


PCB layout Kat1 kFUA (View: component side)

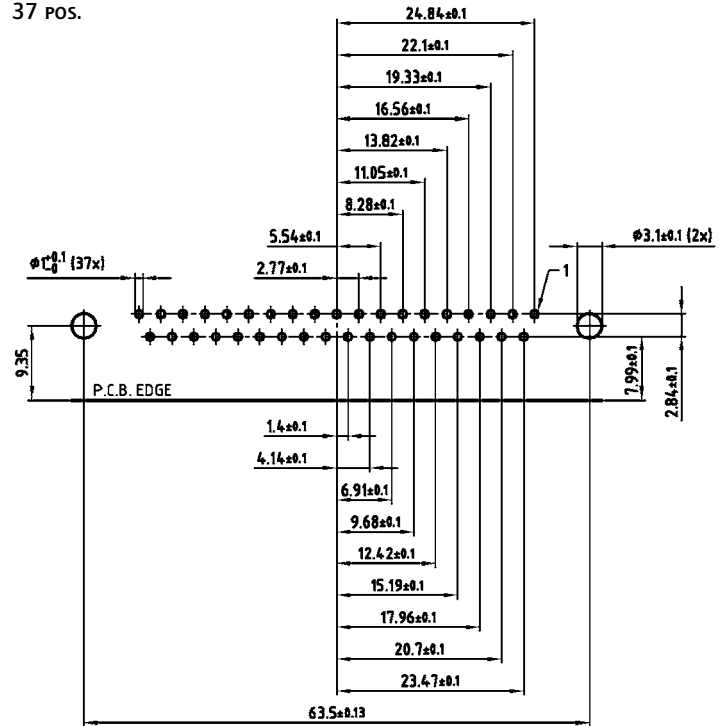
PCB LAYOUT, D-SUB STANDARD

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

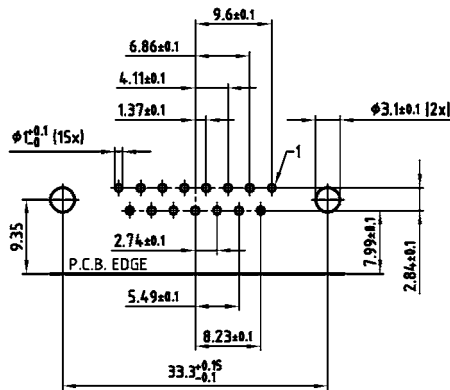
9 POS.



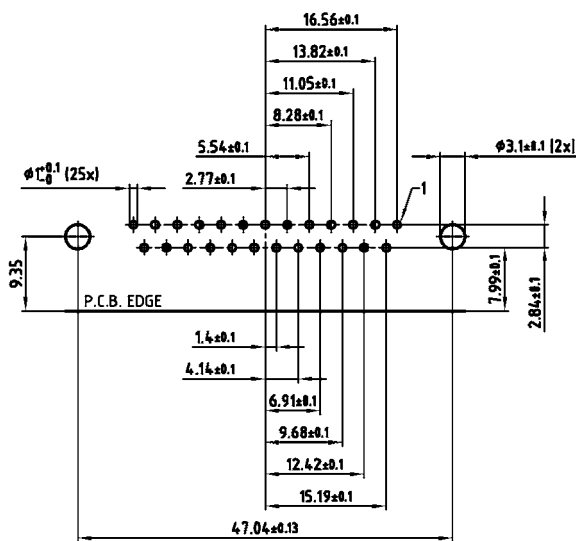
37 POS.



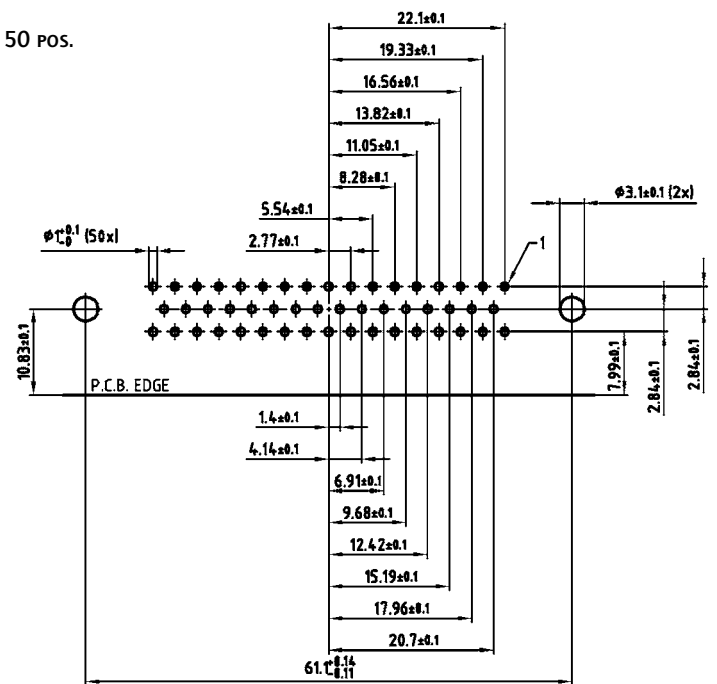
15 POS.



25 POS.



50 POS.

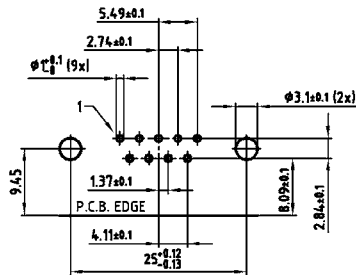


PCB layout Kat1 kGEA (View: component side)

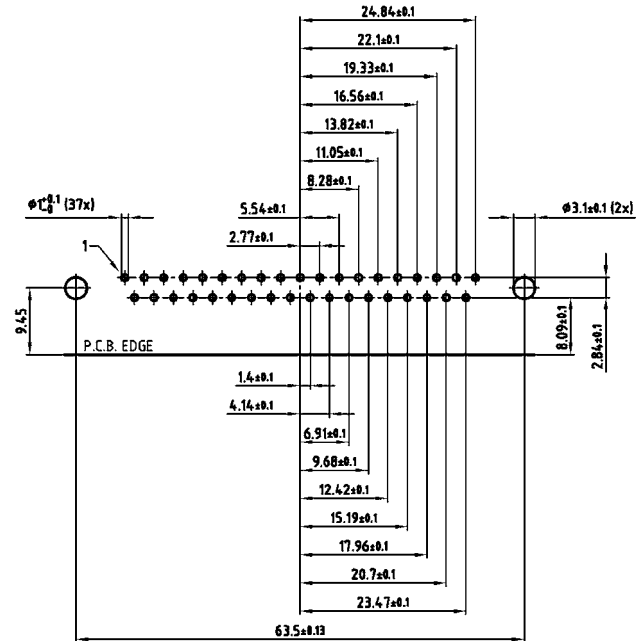
PCB LAYOUT, D-SUB STANDARD

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

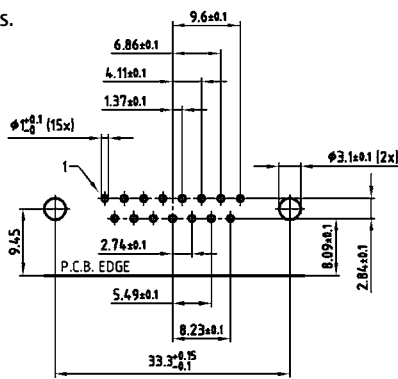
9 POS.



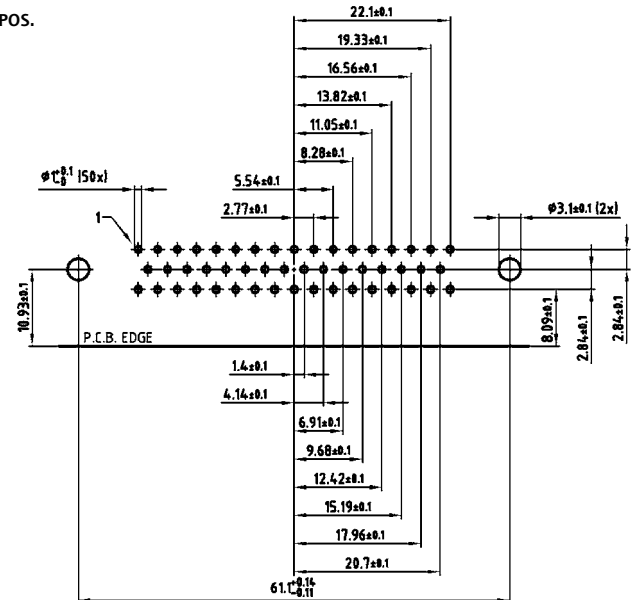
37 POS.



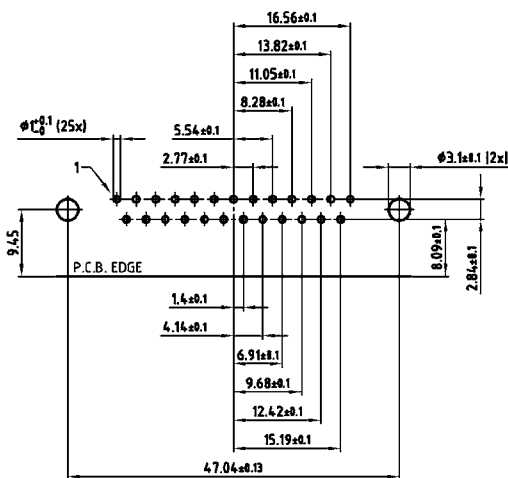
15 POS.



50 POS.



25 POS.

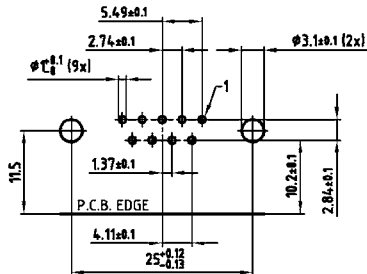


PCB layout Kat1 kgFA (View: component side)

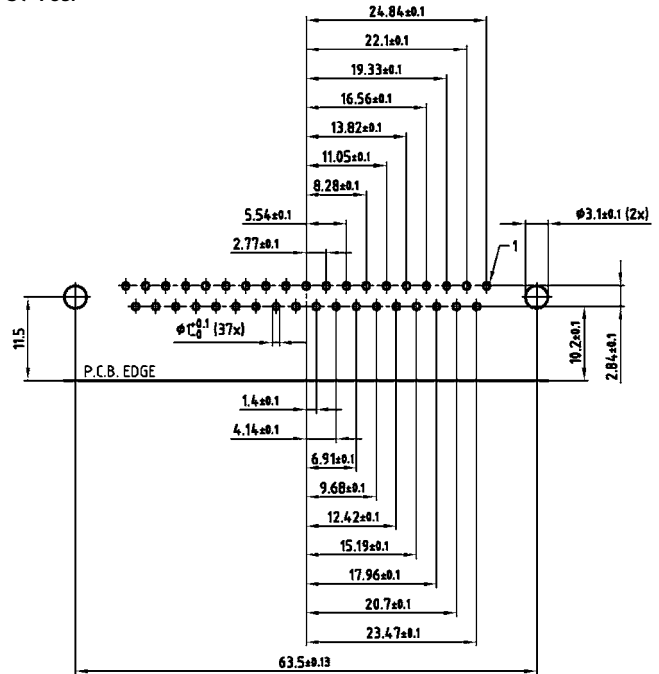
PCB LAYOUT, D-SUB STANDARD

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

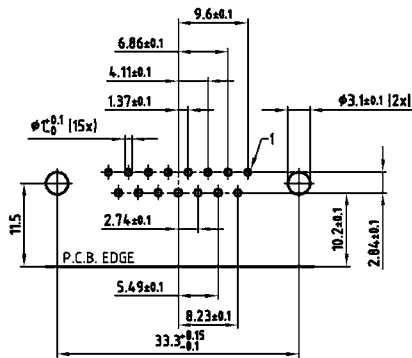
9 POS.



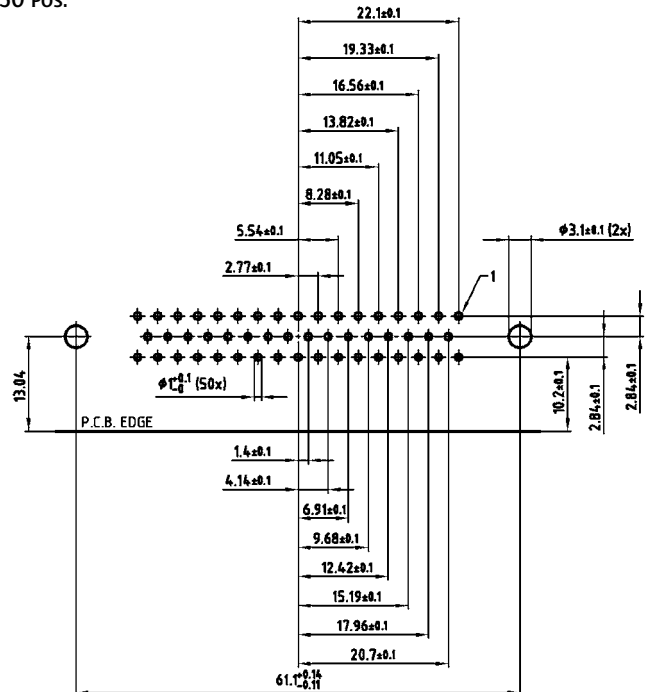
37 POS.



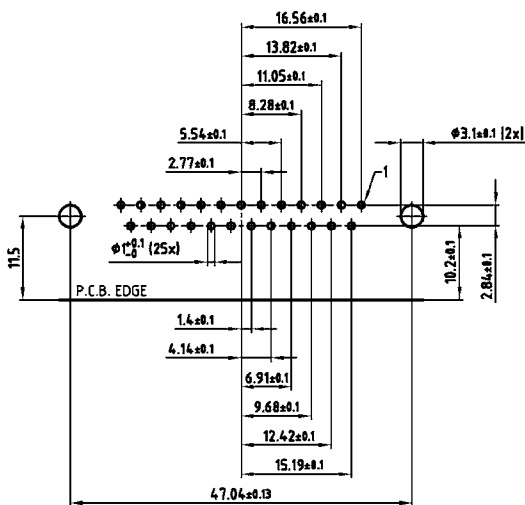
15 POS.



50 POS.



25 POS.

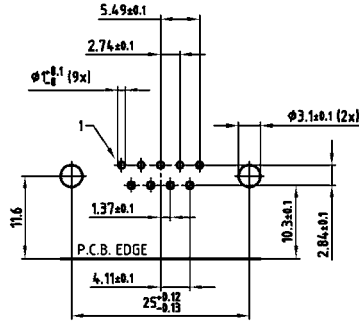


PCB layout Kat1 kGGA (View: component side)

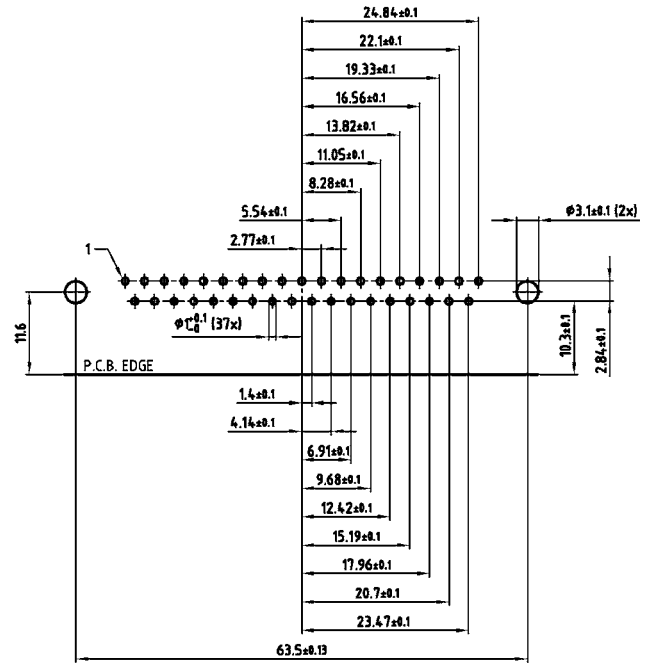
PCB LAYOUT, D-SUB STANDARD

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

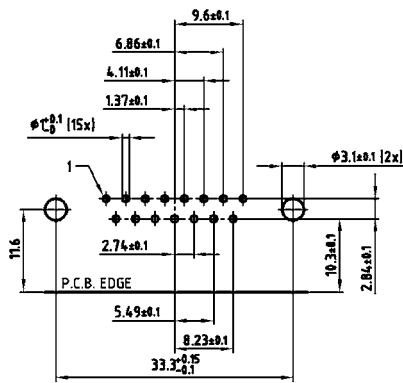
9 POS.



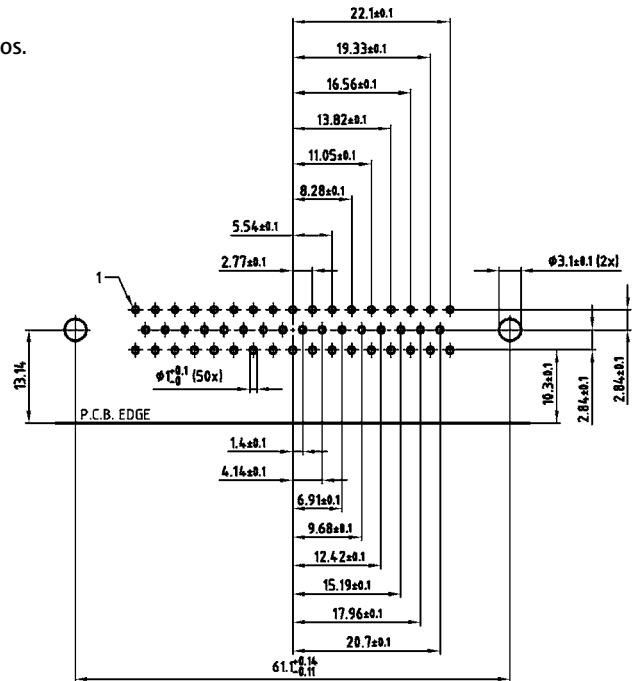
37 POS.



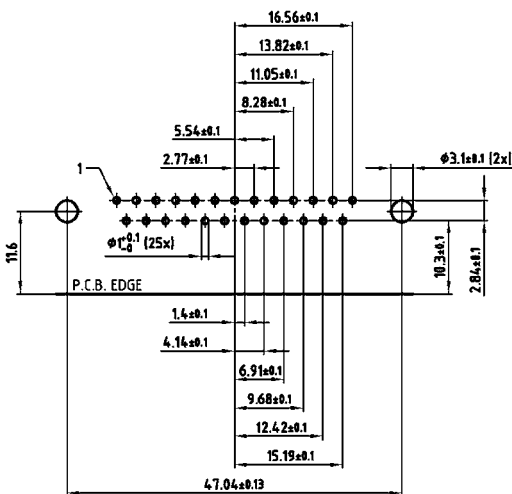
15 POS.



50 POS.



25 POS.

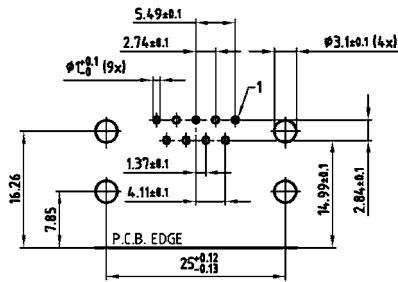


PCB layout Kat1 kGHA (View: component side)

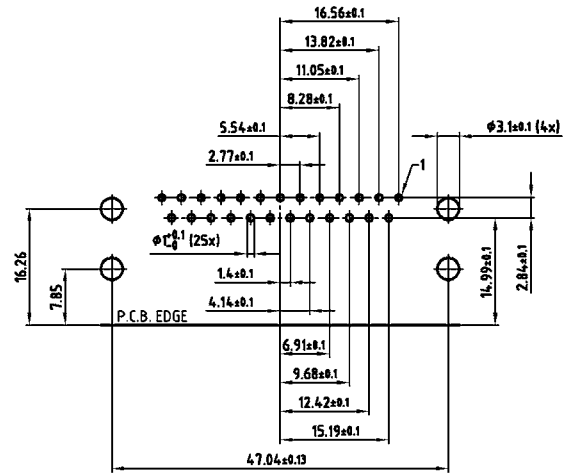
PCB LAYOUT, D-SUB STANDARD

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

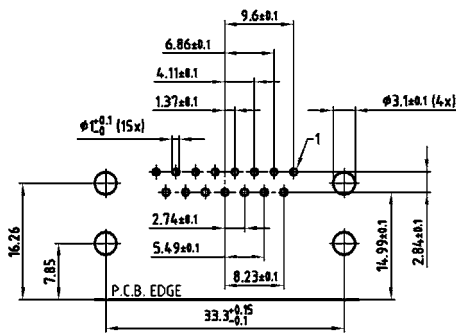
9 pos.



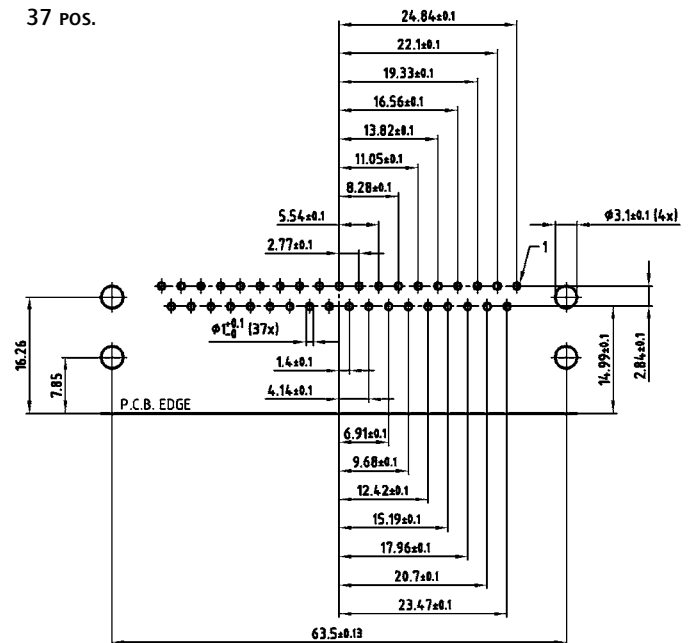
25 pos.



15 pos.



37 pos.

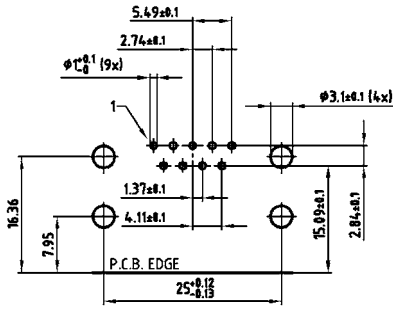


PCB layout Kat1 kGIA (View: component side)

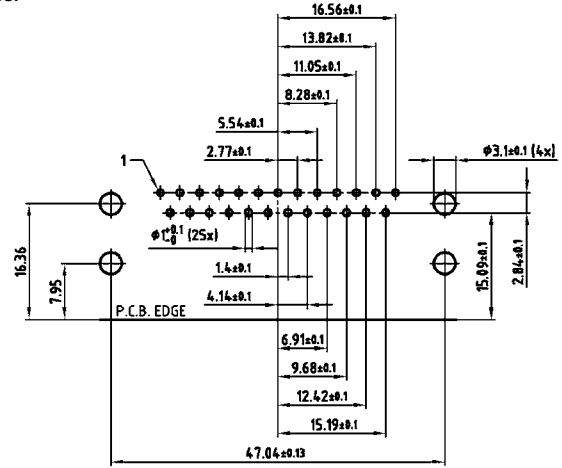
PCB LAYOUT, – D-SUB STANDARD

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

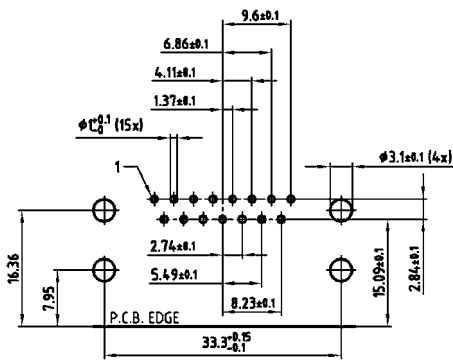
9 POS.



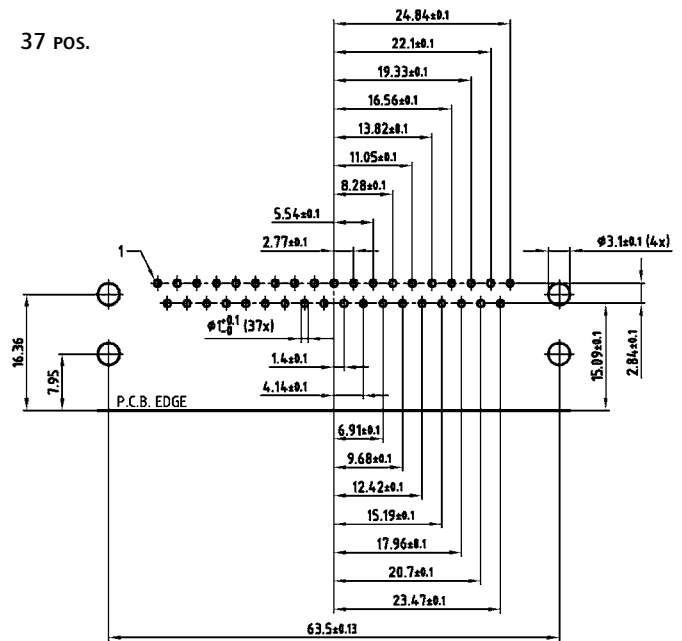
25 POS.



15 POS.



37 POS.

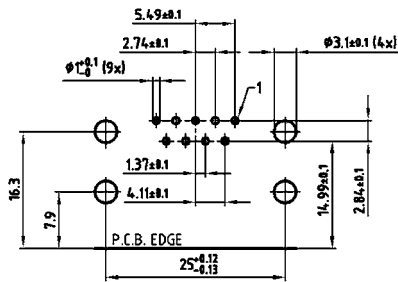


PCB layout Kat1 kGJA (View: component side)

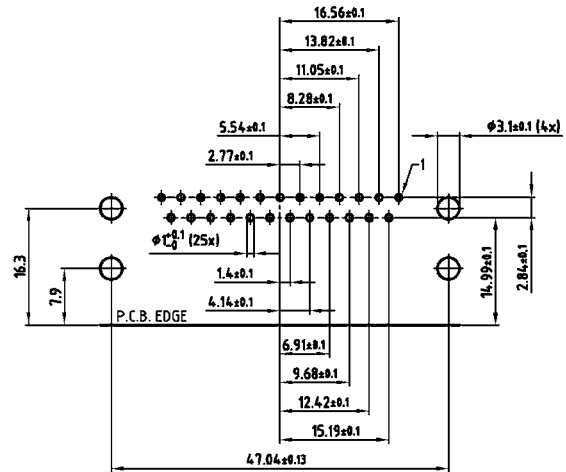
PCB LAYOUT, D-SUB STANDARD

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

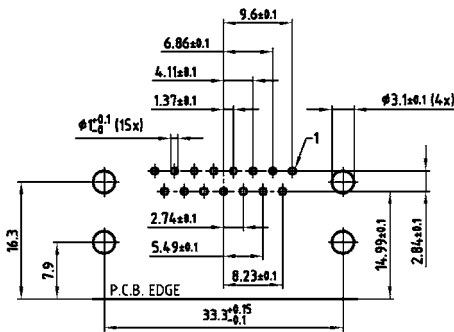
9 POS.



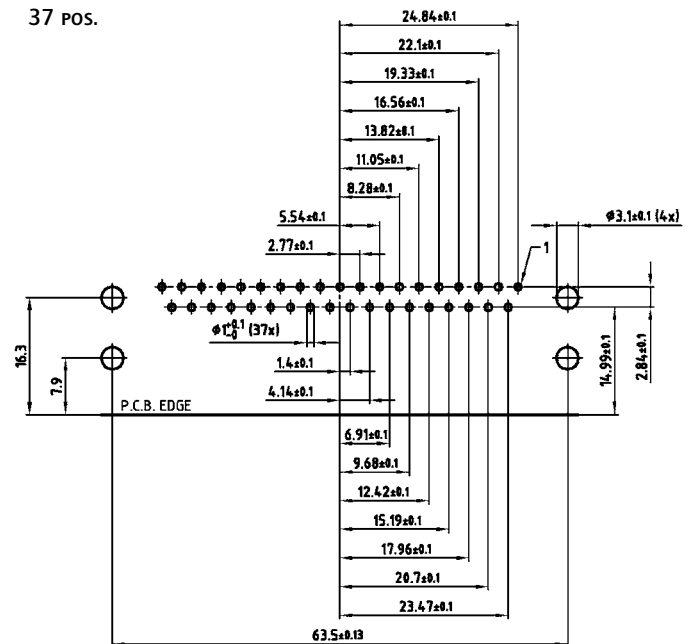
25 POS.



15 POS.



37 POS.

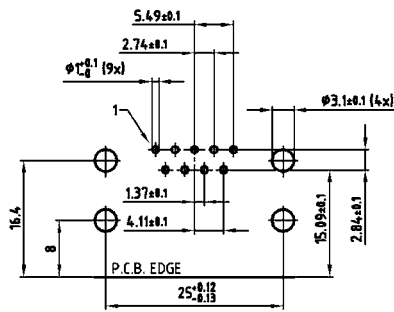


PCB layout Kat1 kGKA (View: component side)

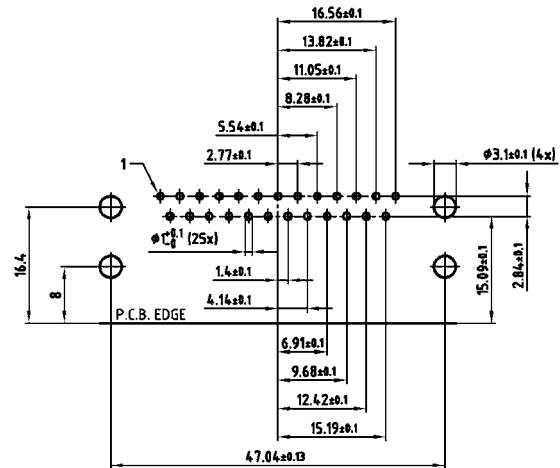
PCB LAYOUT, D-SUB STANDARD

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

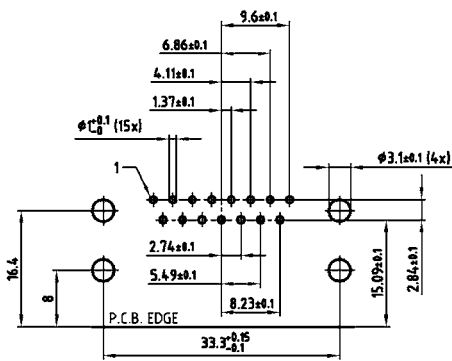
9 pos.



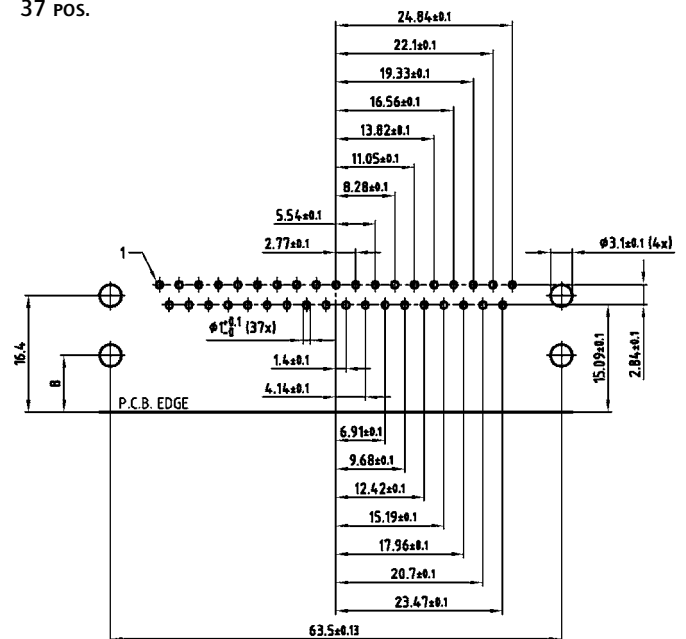
25 pos.



15 pos.



37 pos.

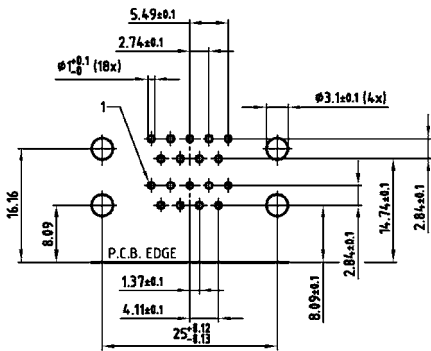


PCB layout Kat1 kGLA (View: component side)

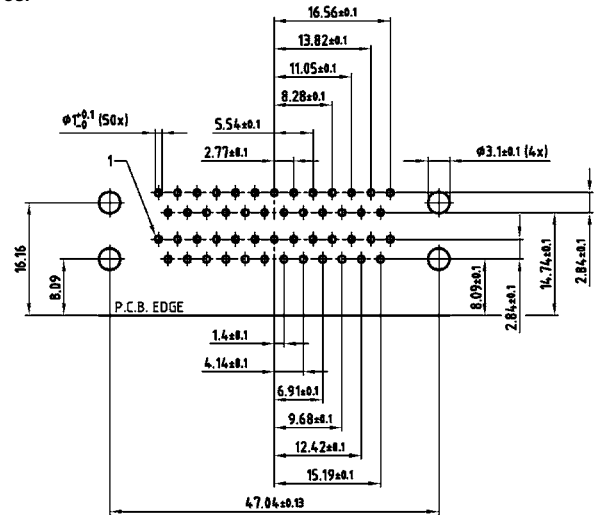
PCB LAYOUT, D-SUB STANDARD

Dual port style – Plug connector bottom

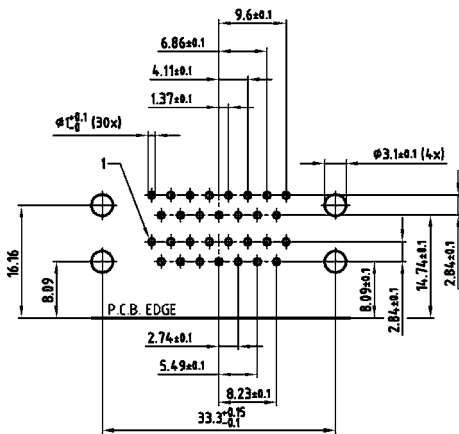
2x9 Pos.



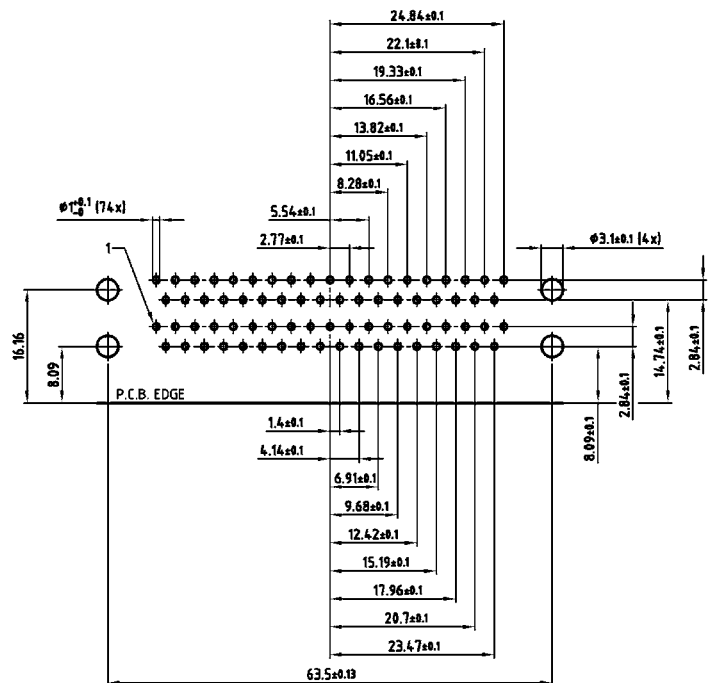
2x25 Pos.



2x15 Pos.



2x37 Pos.

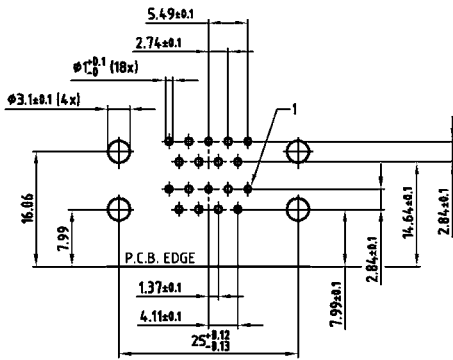


PCB layout Kat1iU5A (View: component side)

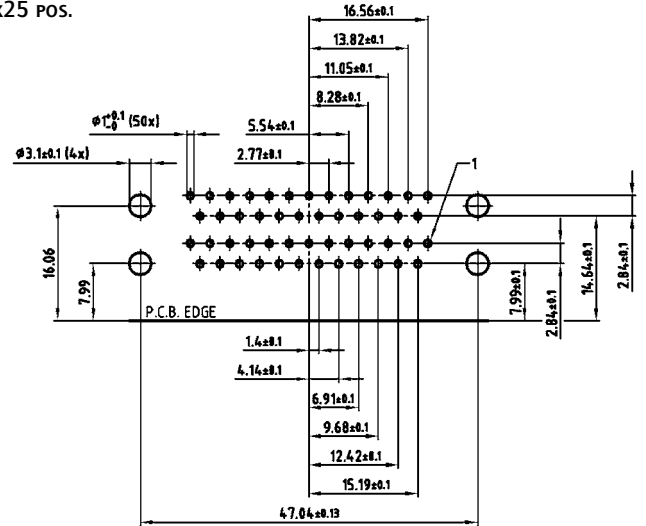
PCB LAYOUT, D-SUB STANDARD

Dual port style – Socket connector bottom

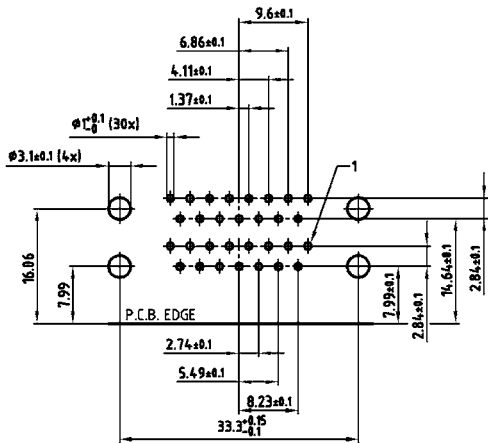
2x9 POS.



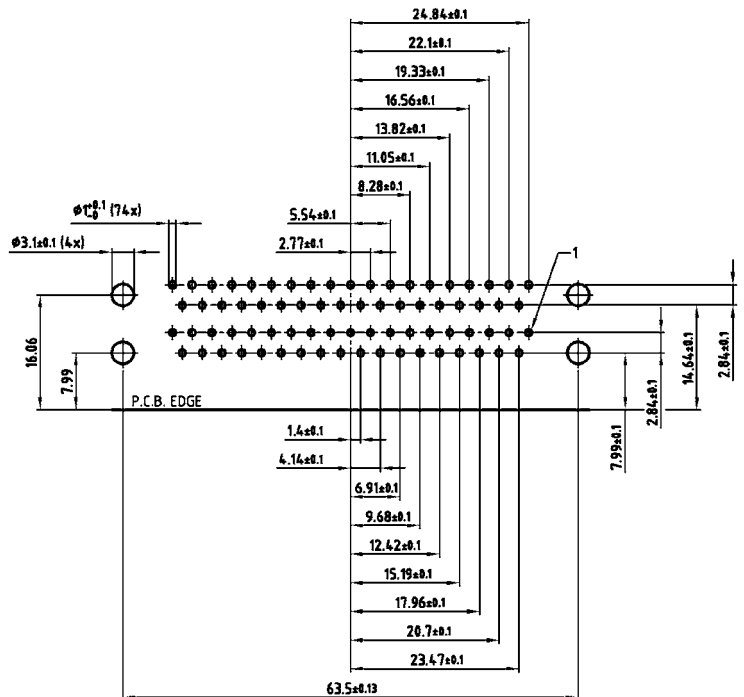
2x25 POS.



2x15 POS.



2x37 POS.

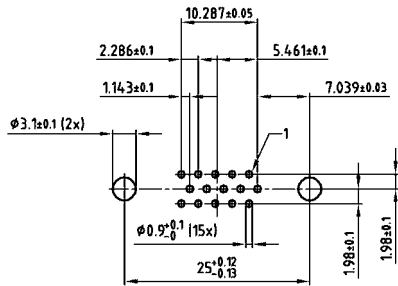


PCB layout Kat1iU6A (View: component side)

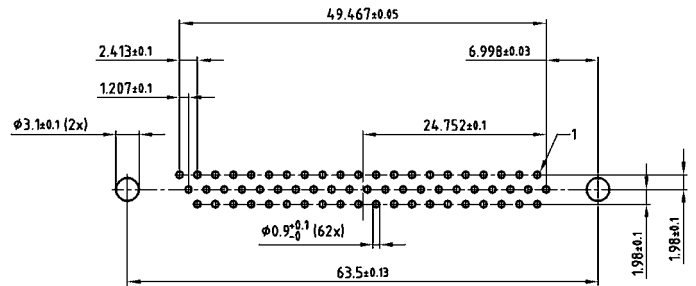
PCB LAYOUT, D-SUB HIGH DENSITY

Solder pin, straight – Socket connector

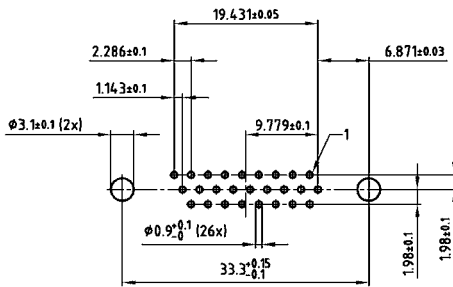
15 POS.



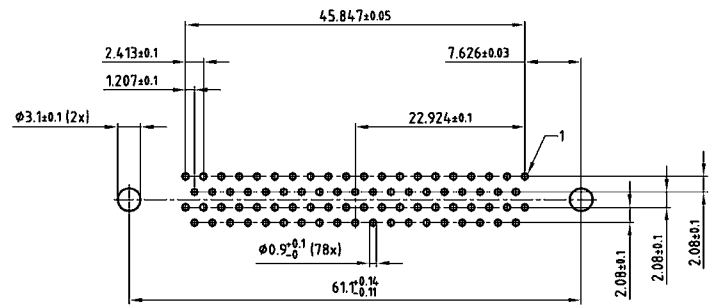
62 POS.



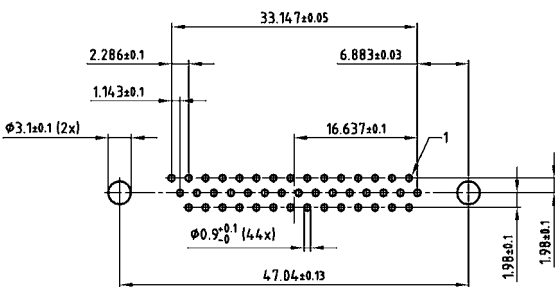
26 POS.



78 POS.



44 POS.

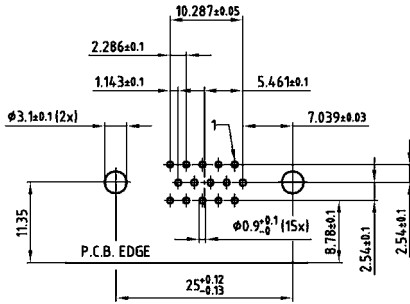


PCB layout Kat1it9A (View: component side)

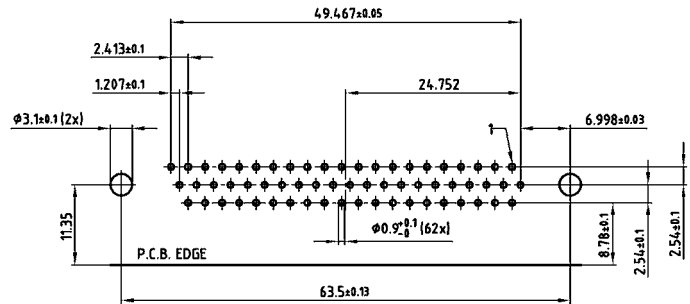
PCB LAYOUT, D-SUB HIGH DENSITY

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

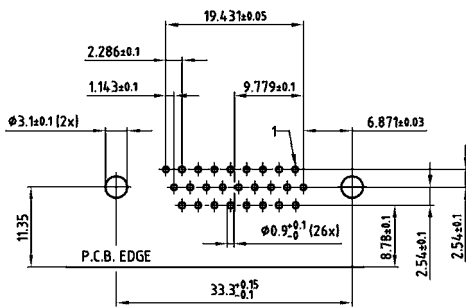
15 POS.



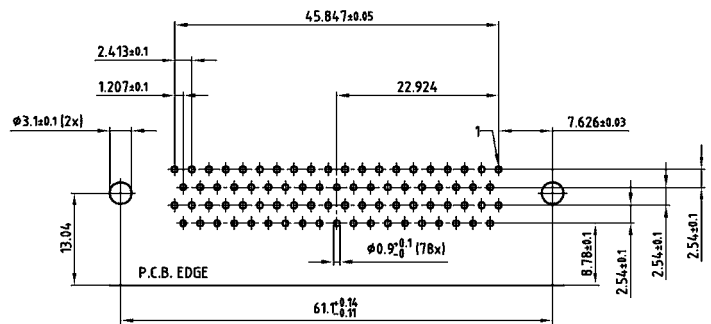
62 POS.



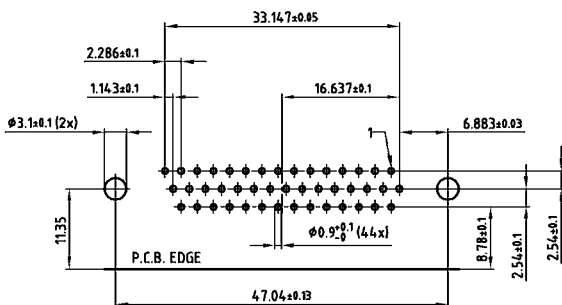
26 POS.



78 POS.



44 POS.

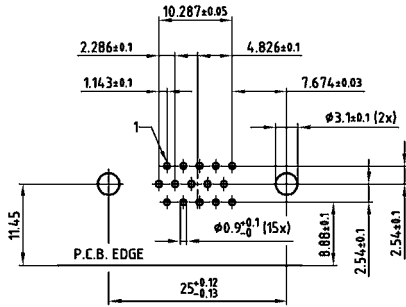


PCB layout Kat1iU1A (View: component side)

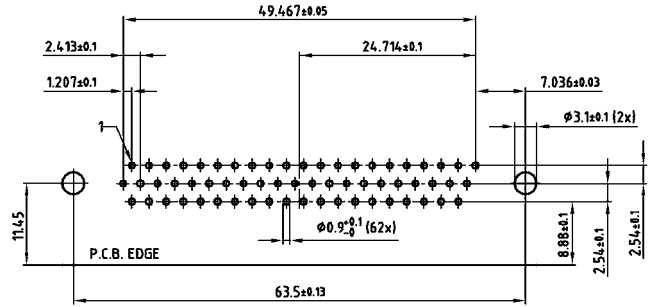
PCB LAYOUT, D-SUB HIGH DENSITY

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

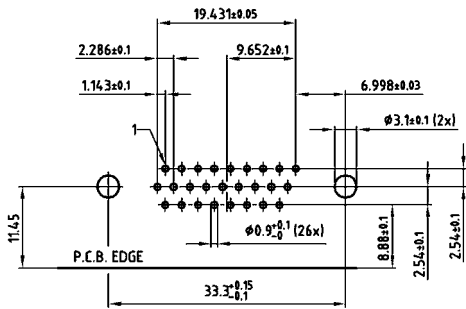
15 POS.



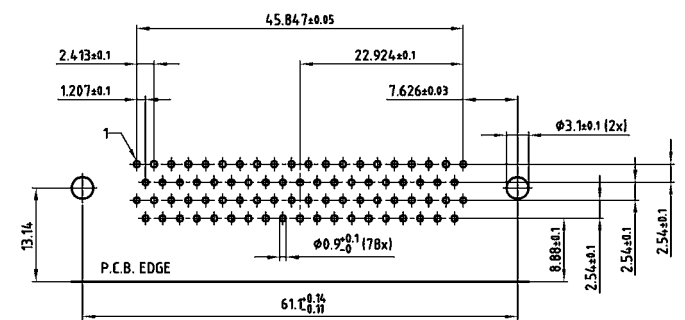
62 POS.



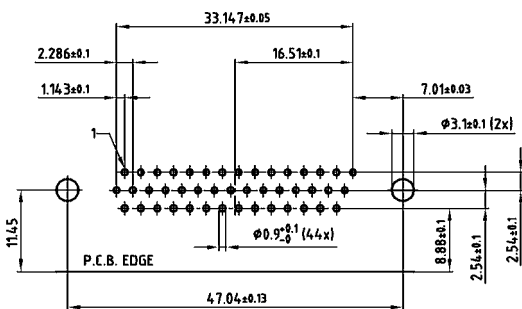
26 POS.



78 POS.



44 POS.



PCB layout Kat1iU2A (View: component side)

SOLDER PROFILE

Connector Type	Preheating		Solder terminal dipping parameters	
	max. Temperature	Duration	max. Solder bath Temperature	max. Terminal Immersion Time
Filter D-SUB	100°C	30s	260°C	5s
Combo D-SUB Filter	120°C	120s	260°C	5s
Filter D-SUB Water Resistant	100°C	30s	240°C	5s
Combo D-SUB Water Resistant	120°C	120s	240°C	5s
D-SUB Water Resistant	120°C	120s	240°C	5s
D-SUB Solid Body Type Water Resistant	150°C	180s	265°C	8s
RJ45 Modular Jack Filtered	150°C	180s	265°C	8s
Filter Plates	150°C	180s	265°C	8s

Recommended wave-solder parameters for CONEC connectors.

D-SUB STANDARD

Solder cup – Stamped contacts – For wire size AWG 20

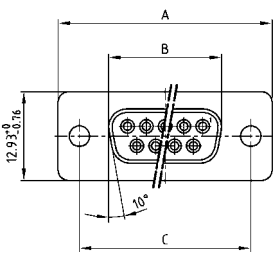


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

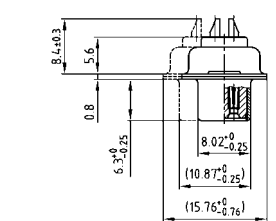
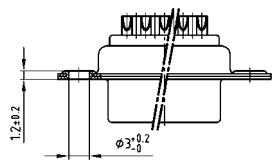
- Suitable for wire size **AWG 20**
- Mounting style: with through-hole, Ø .118" / 3 mm
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

SOCKET CONNECTOR



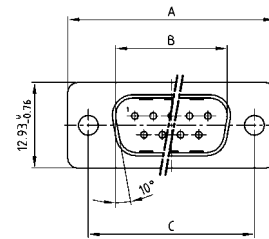
Mounting style: Through-hole

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



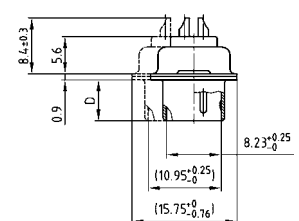
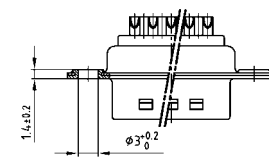
50 pos. = Dim. in (_)

PLUG CONNECTOR



Mounting style: Through-hole

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



50 pos. = Dim. in (_)

ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	302 A 10019 X
15	Through-hole	302 A 10029 X
25	Through-hole	302 A 10059 X
37	Through-hole	302 A 10069 X
50	Through-hole	302 A 10079 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	301 A 10019 X
15	Through-hole	301 A 10029 X
25	Through-hole	301 A 10059 X
37	Through-hole	301 A 10069 X
50	Through-hole	301 A 10079 X

D-SUB STANDARD

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

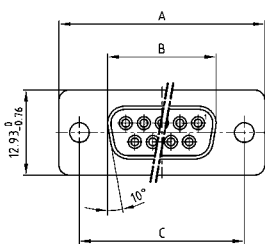


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

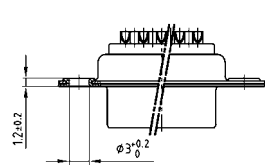
- Suitable for wire size **AWG 20**
- Mounting styles:
 - with through-hole, $\varnothing .118'' / 3 \text{ mm}$
 - with M3 or 4-40 UNC threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

SOCKET CONNECTOR

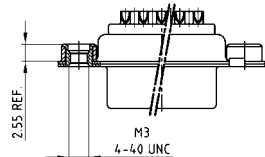


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 +0.13
37	69.70	54.96	63.50 +0.13
50	67.31	52.55	61.10 +0.14 -0.11

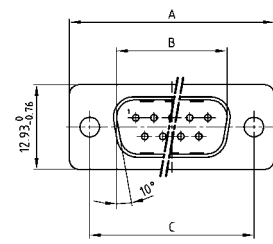
Mounting style: Through-hole



Mounting style: Threaded insert

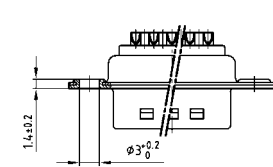


PLUG CONNECTOR

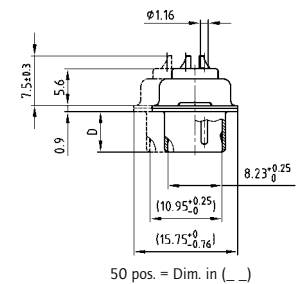
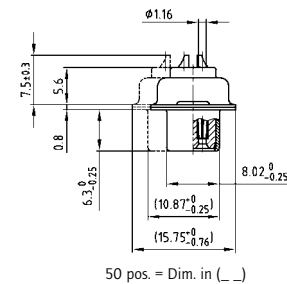
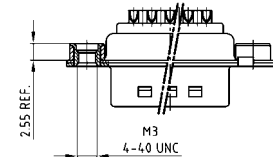


No. of pos.	A -0.76	B -0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 +0.13	5.99
37	69.70	55.30	63.50 +0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

Mounting style: Through-hole



Mounting style: Threaded insert



ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	164 A 10019 X
15	Through-hole	164 A 10029 X
25	Through-hole	164 A 10039 X
37	Through-hole	164 A 10049 X
50	Through-hole	164 A 10059 X
09	4-40 UNC Threaded insert	164 A 10219 X
15	4-40 UNC Threaded insert	164 A 10229 X
25	4-40 UNC Threaded insert	164 A 10239 X
37	4-40 UNC Threaded insert	164 A 10249 X
50	4-40 UNC Threaded insert	164 A 10259 X
09	M3 Threaded insert	164 A 10269 X
15	M3 Threaded insert	164 A 10279 X
25	M3 Threaded insert	164 A 10289 X
37	M3 Threaded insert	164 A 10299 X
50	M3 Threaded insert	164 A 10309 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	163 A 11069 X
15	Through-hole	163 A 11079 X
25	Through-hole	163 A 11089 X
37	Through-hole	163 A 11099 X
50	Through-hole	163 A 11109 X
09	4-40 UNC Threaded insert	163 A 11269 X
15	4-40 UNC Threaded insert	163 A 11279 X
25	4-40 UNC Threaded insert	163 A 11289 X
37	4-40 UNC Threaded insert	163 A 11299 X
50	4-40 UNC Threaded insert	163 A 11309 X
09	M3 Threaded insert	163 A 11319 X
15	M3 Threaded insert	163 A 11329 X
25	M3 Threaded insert	163 A 11339 X
37	M3 Threaded insert	163 A 11349 X
50	M3 Threaded insert	163 A 11359 X

D-SUB STANDARD

Solder pin – Straight – Stamped contacts



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

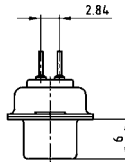
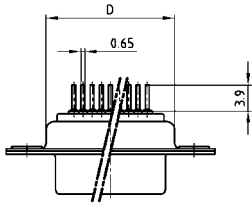
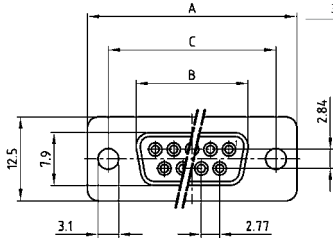
DESCRIPTION

- Mounting styles:
 - with through-hole, \varnothing .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.

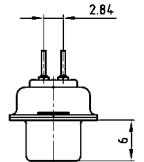
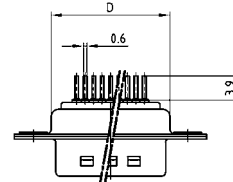
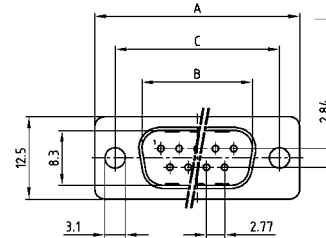
No. of pos.	A	B	C	D
09	30.80	16.30	25.00	19.20
15	39.20	24.60	33.30	27.70
25	53.10	38.30	47.04	41.10
37	69.40	54.80	63.50	57.30



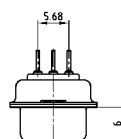
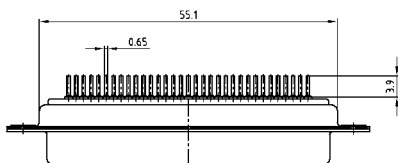
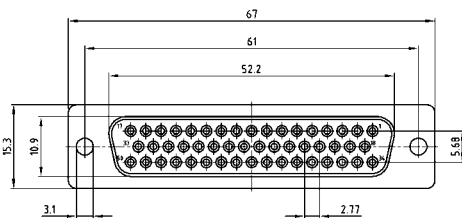
PLUG CONNECTOR

9-37 pos.

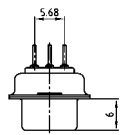
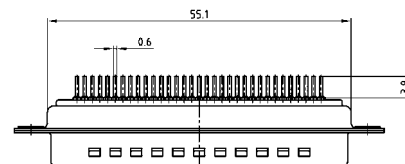
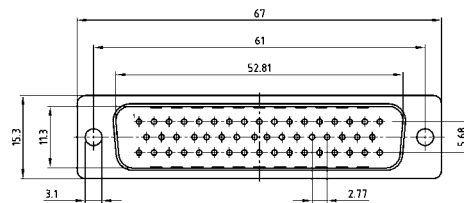
No. of pos.	A	B	C	D
09	30.80	16.92	25.00	19.20
15	39.20	25.25	33.30	27.70
25	53.10	38.96	47.04	41.10
37	69.40	55.42	63.50	57.30



50 pos.



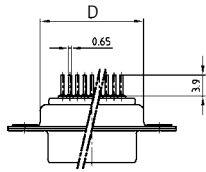
50 pos.



D-SUB STANDARD – MOUNTING STYLES

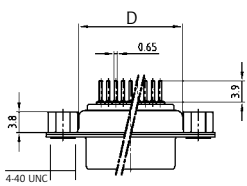
Solder pin – Straight – Stamped contacts

ORDER DATA



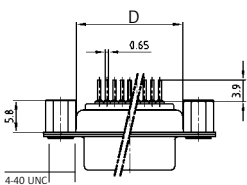
SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	DLS 1XS4AD01 X
15	Through-hole	DLS 2XS4AD01 X
25	Through-hole	DLS 3XS4AD01 X
37	Through-hole	DLS 4XS4AD01 X
50	Through-hole	DLS 5XS4AD01 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	DLS 1XP4AD01 X
15	Through-hole	DLS 2XP4AD01 X
25	Through-hole	DLS 3XP4AD01 X
37	Through-hole	DLS 4XP4AD01 X
50	Through-hole	DLS 5XP4AD01 X



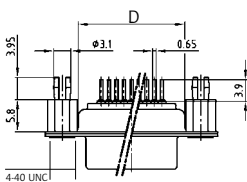
SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	DLS 1XS4AG06 X
15	Threaded insert	DLS 2XS4AG06 X
25	Threaded insert	DLS 3XS4AG06 X
37	Threaded insert	DLS 4XS4AG06 X
50	Threaded insert	DLS 5XS4AG06 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	DLS 1XP4AG06 X
15	Threaded insert	DLS 2XP4AG06 X
25	Threaded insert	DLS 3XP4AG06 X
37	Threaded insert	DLS 4XP4AG06 X
50	Threaded insert	DLS 5XP4AG06 X



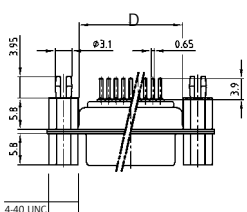
SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer	DLS 1XS4AA37 X
15	Threaded rear spacer	DLS 2XS4AA37 X
25	Threaded rear spacer	DLS 3XS4AA37 X
37	Threaded rear spacer	DLS 4XS4AA37 X
50	Threaded rear spacer	DLS 5XS4AA37 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer	DLS 1XP4AA37 X
15	Threaded rear spacer	DLS 2XP4AA37 X
25	Threaded rear spacer	DLS 3XP4AA37 X
37	Threaded rear spacer	DLS 4XP4AA37 X
50	Threaded rear spacer	DLS 5XP4AA37 X



SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer PCB clip	DLS 1XS4AA35 X
15	Threaded rear spacer PCB clip	DLS 2XS4AA35 X
25	Threaded rear spacer PCB clip	DLS 3XS4AA35 X
37	Threaded rear spacer PCB clip	DLS 4XS4AA35 X
50	Threaded rear spacer PCB clip	DLS 5XS4AA35 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer PCB clip	DLS 1XP4AA35 X
15	Threaded rear spacer PCB clip	DLS 2XP4AA35 X
25	Threaded rear spacer PCB clip	DLS 3XP4AA35 X
37	Threaded rear spacer PCB clip	DLS 4XP4AA35 X
50	Threaded rear spacer PCB clip	DLS 5XP4AA35 X



SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front/Threaded rear spacer PCB clip	DLS 1XS4AA39 X
15	Front/Threaded rear spacer PCB clip	DLS 2XS4AA39 X
25	Front/Threaded rear spacer PCB clip	DLS 3XS4AA39 X
37	Front/Threaded rear spacer PCB clip	DLS 4XS4AA39 X
50	Front/Threaded rear spacer PCB clip	DLS 5XS4AA39 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front/Threaded rear spacer PCB clip	DLS 1XP4AA39 X
15	Front/Threaded rear spacer PCB clip	DLS 2XP4AA39 X
25	Front/Threaded rear spacer PCB clip	DLS 3XP4AA39 X
37	Front/Threaded rear spacer PCB clip	DLS 4XP4AA39 X
50	Front/Threaded rear spacer PCB clip	DLS 5XP4AA39 X

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

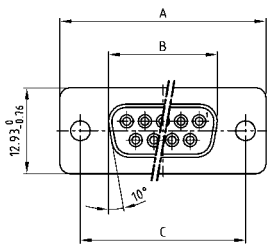
D-SUB STANDARD

Solder pin – Straight – Precision machined contacts



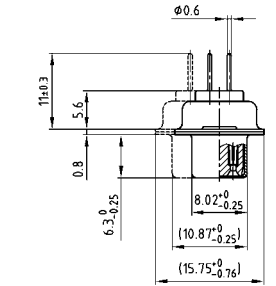
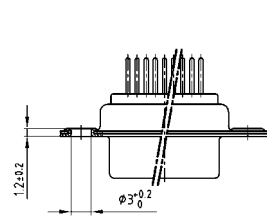
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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

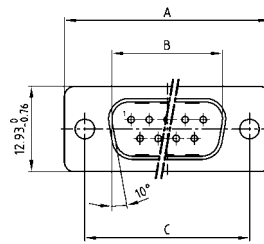


50 pos. = Dim. in (_)

DESCRIPTION

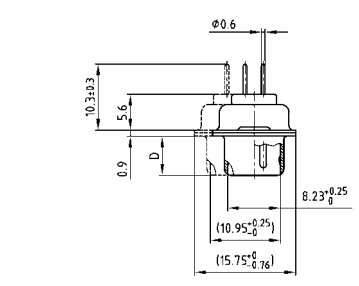
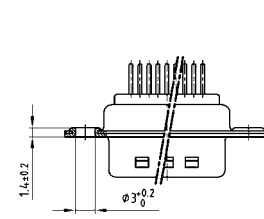
- Mounting styles:
 - with through-hole, Ø .118" / 3 mm
 - with 4-40 UNC or M3 threaded insert
 - with 4-40 UNC or M3 threaded rear spacer
 - with 4-40 UNC or M3 front and threaded rear spacer
 - with 4-40 UNC front / M3 threaded rear spacer
 - with M3 front / 4-40 UNC or M3 threaded rear spacer with 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)

PLUG CONNECTOR



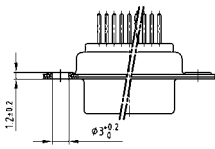
No. of pos.	A -0.76	B -0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 +0.13	5.99
37	69.70	55.30	63.50 +0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

PCB layout: Kat1kFUA



50 pos. = Dim. in (_)

ORDER DATA

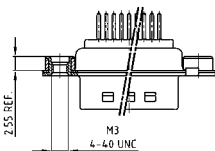


SOCKET CONNECTOR

No. of pos.	Mounting style	Part Number
09	Through-hole	164 A 10069 X
15	Through-hole	164 A 10079 X
25	Through-hole	164 A 10089 X
37	Through-hole	164 A 10099 X
50	Through-hole	164 A 10109 X

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	Through-hole	163 A 11119 X
15	Through-hole	163 A 11129 X
25	Through-hole	163 A 11139 X
37	Through-hole	163 A 11149 X
50	Through-hole	163 A 11159 X



SOCKET CONNECTOR

No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	164 A 10319 X
15	4-40 UNC Threaded insert	164 A 10329 X
25	4-40 UNC Threaded insert	164 A 10339 X
37	4-40 UNC Threaded insert	164 A 10349 X
50	4-40 UNC Threaded insert	164 A 10359 X
09	M3 Threaded insert	164 A 10369 X
15	M3 Threaded insert	164 A 10379 X
25	M3 Threaded insert	164 A 10389 X
37	M3 Threaded insert	164 A 10399 X
50	M3 Threaded insert	164 A 10409 X

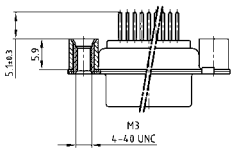
PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	163 A 11369 X
15	4-40 UNC Threaded insert	163 A 11379 X
25	4-40 UNC Threaded insert	163 A 11389 X
37	4-40 UNC Threaded insert	163 A 11399 X
50	4-40 UNC Threaded insert	163 A 11409 X
09	M3 Threaded insert	163 A 11419 X
15	M3 Threaded insert	163 A 11429 X
25	M3 Threaded insert	163 A 11439 X
37	M3 Threaded insert	163 A 11449 X
50	M3 Threaded insert	163 A 11459 X

D-SUB STANDARD – MOUNTING STYLES

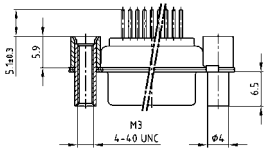
Solder pin – Straight – Precision machined contacts

ORDER DATA



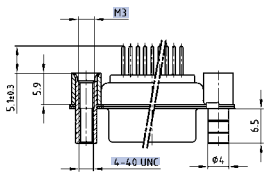
SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded rear spacer	164 A 12029 X
15	4-40 UNC Threaded rear spacer	164 A 12039 X
25	4-40 UNC Threaded rear spacer	164 A 12049 X
37	4-40 UNC Threaded rear spacer	164 A 12059 X
50	4-40 UNC Threaded rear spacer	164 A 12069 X
09	M3 Threaded rear spacer	164 A 12079 X
15	M3 Threaded rear spacer	164 A 12089 X
25	M3 Threaded rear spacer	164 A 12099 X
37	M3 Threaded rear spacer	164 A 12109 X
50	M3 Threaded rear spacer	164 A 12119 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded rear spacer	163 A 13629 X
15	4-40 UNC Threaded rear spacer	163 A 13639 X
25	4-40 UNC Threaded rear spacer	163 A 13649 X
37	4-40 UNC Threaded rear spacer	163 A 13659 X
50	4-40 UNC Threaded rear spacer	163 A 13669 X
09	M3 Threaded rear spacer	163 A 13679 X
15	M3 Threaded rear spacer	163 A 13689 X
25	M3 Threaded rear spacer	163 A 13699 X
37	M3 Threaded rear spacer	163 A 13709 X
50	M3 Threaded rear spacer	163 A 13719 X



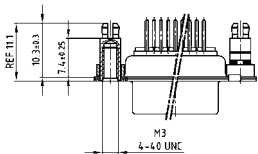
SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front/ Threaded rear spacer	164 A 12129 X
15	4-40 UNC Front/ Threaded rear spacer	164 A 12139 X
25	4-40 UNC Front/ Threaded rear spacer	164 A 12149 X
37	4-40 UNC Front/ Threaded rear spacer	164 A 12159 X
50	4-40 UNC Front/ Threaded rear spacer	164 A 12169 X
09	M3 Front/ Threaded rear spacer	164 A 12179 X
15	M3 Front/ Threaded rear spacer	164 A 12189 X
25	M3 Front/ Threaded rear spacer	164 A 12199 X
37	M3 Front/ Threaded rear spacer	164 A 12209 X
50	M3 Front/ Threaded rear spacer	164 A 12219 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front/ Threaded rear spacer	163 A 13729 X
15	4-40 UNC Front/ Threaded rear spacer	163 A 13739 X
25	4-40 UNC Front/ Threaded rear spacer	163 A 13749 X
37	4-40 UNC Front/ Threaded rear spacer	163 A 13759 X
50	4-40 UNC Front/ Threaded rear spacer	163 A 13769 X
09	M3 Front/ Threaded rear spacer	163 A 13779 X
15	M3 Front/ Threaded rear spacer	163 A 13789 X
25	M3 Front/ Threaded rear spacer	163 A 13799 X
37	M3 Front/ Threaded rear spacer	163 A 13809 X
50	M3 Front/ Threaded rear spacer	163 A 13819 X



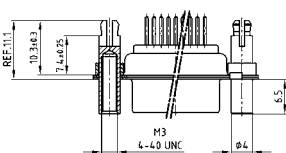
SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front / M3 Threaded rear spacer	164 A 12919 X
15	4-40 UNC Front / M3 Threaded rear spacer	164 A 12929 X
25	4-40 UNC Front / M3 Threaded rear spacer	164 A 12939 X
37	4-40 UNC Front / M3 Threaded rear spacer	164 A 12949 X
50	4-40 UNC Front / M3 Threaded rear spacer	164 A 12959 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front / M3 Threaded rear spacer	163 A 14439 X
15	4-40 UNC Front / M3 Threaded rear spacer	163 A 14449 X
25	4-40 UNC Front / M3 Threaded rear spacer	163 A 14459 X
37	4-40 UNC Front / M3 Threaded rear spacer	163 A 14469 X
50	4-40 UNC Front / M3 Threaded rear spacer	163 A 14479 X



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded rear spacer PCB clip	164 A 16569 X
15	4-40 UNC Threaded rear spacer PCB clip	164 A 16579 X
25	4-40 UNC Threaded rear spacer PCB clip	164 A 16589 X
37	4-40 UNC Threaded rear spacer PCB clip	164 A 16599 X
50	4-40 UNC Threaded rear spacer PCB clip	164 A 16609 X
09	M3 Threaded rear spacer PCB clip	164 A 16619 X
15	M3 Threaded rear spacer PCB clip	164 A 16629 X
25	M3 Threaded rear spacer PCB clip	164 A 16639 X
37	M3 Threaded rear spacer PCB clip	164 A 16649 X
50	M3 Threaded rear spacer PCB clip	164 A 16659 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded rear spacer PCB clip	163 A 16159 X
15	4-40 UNC Threaded rear spacer PCB clip	163 A 16169 X
25	4-40 UNC Threaded rear spacer PCB clip	163 A 16179 X
37	4-40 UNC Threaded rear spacer PCB clip	163 A 16189 X
50	4-40 UNC Threaded rear spacer PCB clip	163 A 16199 X
09	M3 Threaded rear spacer PCB clip	163 A 16209 X
15	M3 Threaded rear spacer PCB clip	163 A 16219 X
25	M3 Threaded rear spacer PCB clip	163 A 16229 X
37	M3 Threaded rear spacer PCB clip	163 A 16239 X
50	M3 Threaded rear spacer PCB clip	163 A 16249 X



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front/ Threaded rear spacer PCB clip	164 A 16669 X
15	4-40 UNC Front/ Threaded rear spacer PCB clip	164 A 16679 X
25	4-40 UNC Front/ Threaded rear spacer PCB clip	164 A 16689 X
37	4-40 UNC Front/ Threaded rear spacer PCB clip	164 A 16699 X
50	4-40 UNC Front/ Threaded rear spacer PCB clip	164 A 16709 X
09	M3 Front/ Threaded rear spacer PCB clip	164 A 16719 X
15	M3 Front/ Threaded rear spacer PCB clip	164 A 16729 X
25	M3 Front/ Threaded rear spacer PCB clip	164 A 16739 X
37	M3 Front/ Threaded rear spacer PCB clip	164 A 16749 X
50	M3 Front/ Threaded rear spacer PCB clip	164 A 16759 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front/ Threaded rear spacer PCB clip	163 A 16259 X
15	4-40 UNC Front/ Threaded rear spacer PCB clip	163 A 16269 X
25	4-40 UNC Front/ Threaded rear spacer PCB clip	163 A 16279 X
37	4-40 UNC Front/ Threaded rear spacer PCB clip	163 A 16289 X
50	4-40 UNC Front/ Threaded rear spacer PCB clip	163 A 16299 X
09	M3 Front/ Threaded rear spacer PCB clip	163 A 16309 X
15	M3 Front/ Threaded rear spacer PCB clip	163 A 16319 X
25	M3 Front/ Threaded rear spacer PCB clip	163 A 16329 X
37	M3 Front/ Threaded rear spacer PCB clip	163 A 16339 X
50	M3 Front/ Threaded rear spacer PCB clip	163 A 16349 X

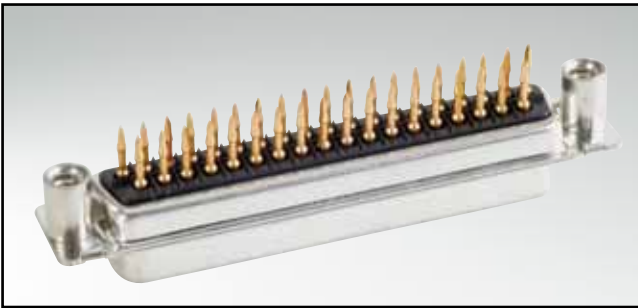
PCB clip for .126" / 3.2 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness.

PCB layout: Kat1kFUA

PCB layout: Kat1kFUA

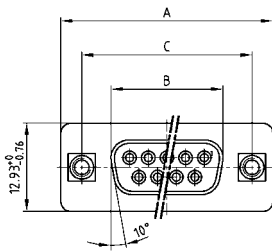
D-SUB STANDARD

Press-fit contact – Straight – Precision machined contacts



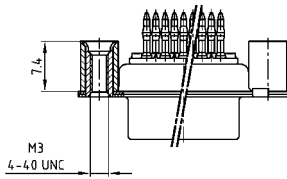
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

SOCKET CONNECTOR

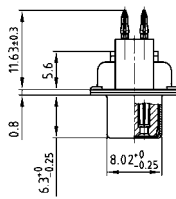
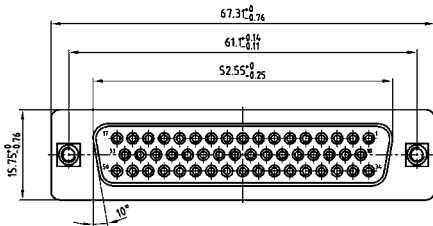


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 ± 0.12
15	39.52	24.79	33.30 ± 0.15
25	53.42	38.50	47.04 ± 0.13
37	69.70	54.96	63.50 ± 0.13

9-37 pos.



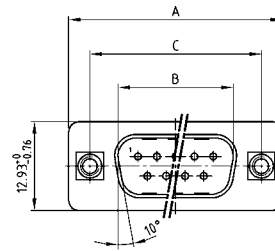
50 pos.



DESCRIPTION

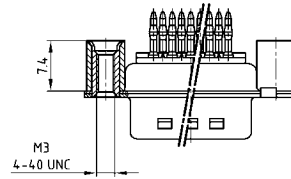
- Mounting style:
with M3 or 4-40 UNC threaded rear spacer
- For .040" / 1.0 mm $\pm \begin{matrix} .0037 / 0.09 \text{ mm} \\ .0027 / 0.06 \text{ mm} \end{matrix}$ finished through-hole diameter
Refer to product drawing for details
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)
- Order press-fit tool separately

PLUG CONNECTOR

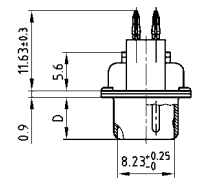
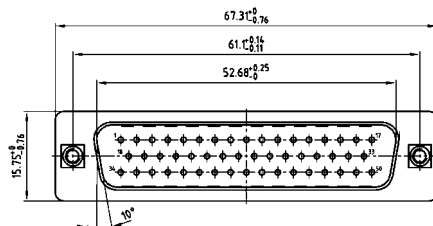


No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 ± 0.12	6.12
15	39.52	25.12	33.30 ± 0.15	6.12
25	53.42	38.84	47.04 ± 0.13	5.99
37	69.70	55.30	63.50 ± 0.13	5.99

9-37 pos.



50 pos.



ORDER DATA

SOCKET CONNECTOR			
No. of pos.	Mounting style	Part Number	
09	4-40 UNC Threaded rear spacer	DSS 1XSFAA49 X	
15	4-40 UNC Threaded rear spacer	DSS 2XSFAA49 X	
25	4-40 UNC Threaded rear spacer	DSS 3XSFAA49 X	
37	4-40 UNC Threaded rear spacer	DSS 4XSFAA49 X	
50	4-40 UNC Threaded rear spacer	DSS 5XSFAA49 X	
09	M3 Threaded rear spacer	DSS 1XSFAA50 X	
15	M3 Threaded rear spacer	DSS 2XSFAA50 X	
25	M3 Threaded rear spacer	DSS 3XSFAA50 X	
37	M3 Threaded rear spacer	DSS 4XSFAA50 X	
50	M3 Threaded rear spacer	DSS 5XSFAA50 X	

PLUG CONNECTOR			
No. of pos.	Mounting style	Part Number	
09	4-40 UNC Threaded rear spacer	DSS 1XPFAA49 X	
15	4-40 UNC Threaded rear spacer	DSS 2XPFAA49 X	
25	4-40 UNC Threaded rear spacer	DSS 3XPFAA49 X	
37	4-40 UNC Threaded rear spacer	DSS 4XPFAA49 X	
50	4-40 UNC Threaded rear spacer	DSS 5XPFAA49 X	
09	M3 Threaded rear spacer	DSS 1XPFAA50 X	
15	M3 Threaded rear spacer	DSS 2XPFAA50 X	
25	M3 Threaded rear spacer	DSS 3XPFAA50 X	
37	M3 Threaded rear spacer	DSS 4XPFAA50 X	
50	M3 Threaded rear spacer	DSS 5XPFAA50 X	

D-SUB STANDARD

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

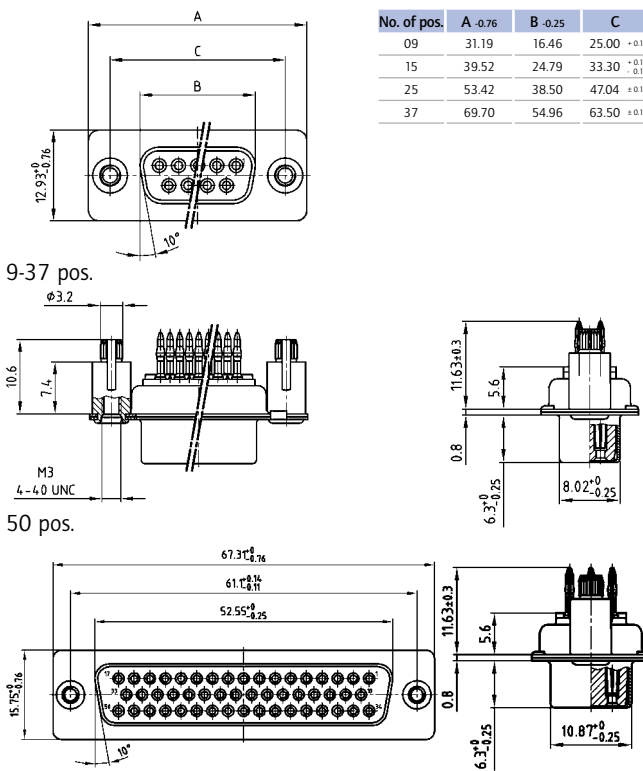


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

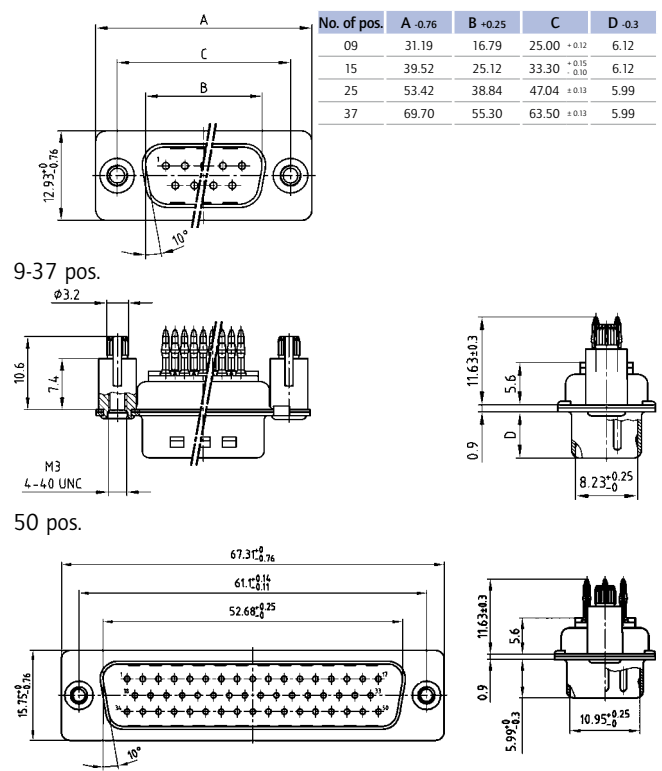
DESCRIPTION

- Mounting style:
with M3 or 4-40 UNC rear press-fit spacer
- For .040" / 1.0 mm ± $\frac{0.003}{.002}$ / $\frac{0.09}{0.06}$ 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



PLUG CONNECTOR



ORDER DATA

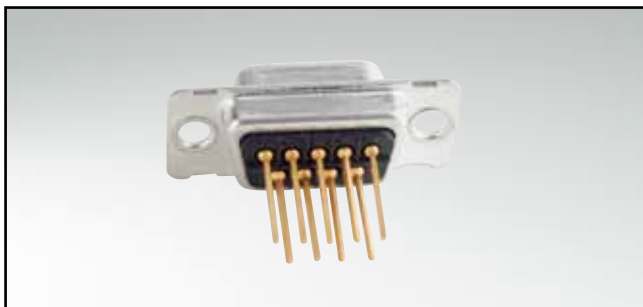
SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Rear press-fit spacer	DSS 1XSFAA54 X
15	4-40 UNC Rear press-fit spacer	DSS 2XSFAA54 X
25	4-40 UNC Rear press-fit spacer	DSS 3XSFAA54 X
37	4-40 UNC Rear press-fit spacer	DSS 4XSFAA54 X
50	4-40 UNC Rear press-fit spacer	DSS 5XSFAA54 X
09	M3 Rear press-fit spacer	DSS 1XSFAA53 X
15	M3 Rear press-fit spacer	DSS 2XSFAA53 X
25	M3 Rear press-fit spacer	DSS 3XSFAA53 X
37	M3 Rear press-fit spacer	DSS 4XSFAA53 X
50	M3 Rear press-fit spacer	DSS 5XSFAA53 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Rear press-fit spacer	DSS 1XPFAA54 X
15	4-40 UNC Rear press-fit spacer	DSS 2XPFAA54 X
25	4-40 UNC Rear press-fit spacer	DSS 3XPFAA54 X
37	4-40 UNC Rear press-fit spacer	DSS 4XPFAA54 X
50	4-40 UNC Rear press-fit spacer	DSS 5XPFAA54 X
09	M3 Rear press-fit spacer	DSS 1XPFAA53 X
15	M3 Rear press-fit spacer	DSS 2XPFAA53 X
25	M3 Rear press-fit spacer	DSS 3XPFAA53 X
37	M3 Rear press-fit spacer	DSS 4XPFAA53 X
50	M3 Rear press-fit spacer	DSS 5XPFAA53 X

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

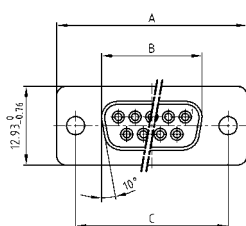


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

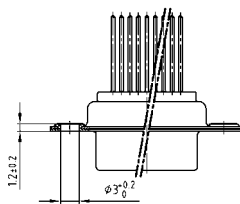
- Mounting styles:
 - with through-hole, $\varnothing .118'' / 3 \text{ mm}$
 - with 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

SOCKET CONNECTOR

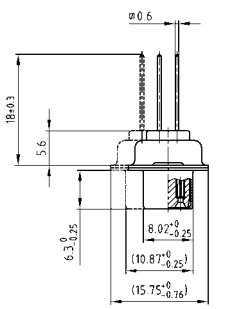
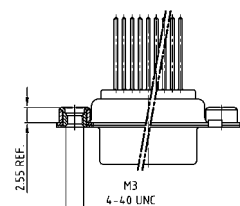


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 $+0.12$
15	39.52	24.79	33.30 $+0.15$ -0.10
25	53.42	38.50	47.04 $+0.13$
37	69.70	54.96	63.50 $+0.13$
50	67.31	52.55	61.10 $+0.14$ -0.11

Mounting style: Through-hole

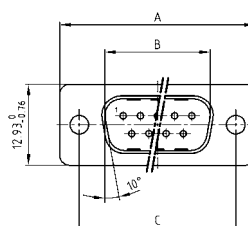


Mounting style: Threaded insert



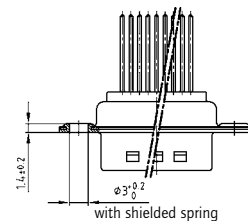
50 pos. = Dim. in (_)

PLUG CONNECTOR

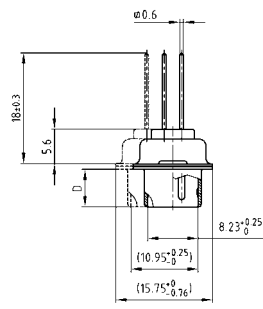
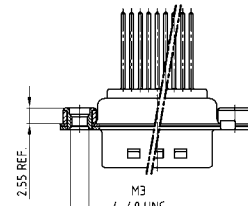


No. of pos.	A -0.76	B -0.25	C	D -0.3
09	31.19	16.79	25.00 $+0.12$	6.12
15	39.52	25.12	33.30 $+0.15$ -0.10	6.12
25	53.42	38.84	47.04 $+0.13$	5.99
37	69.70	55.30	63.50 $+0.13$	5.99
50	67.31	52.68	61.10 $+0.14$ -0.11	5.99

Mounting style: Through-hole



Mounting style: Threaded insert



50 pos. = Dim. in (_)

ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	164 A 10119 X
15	Through-hole	164 A 10129 X
25	Through-hole	164 A 10139 X
37	Through-hole	164 A 10149 X
50	Through-hole	164 A 10159 X
09	4-40 UNC Threaded insert	164 A 10419 X
15	4-40 UNC Threaded insert	164 A 10429 X
25	4-40 UNC Threaded insert	164 A 10439 X
37	4-40 UNC Threaded insert	164 A 10449 X
50	4-40 UNC Threaded insert	164 A 10459 X
09	M3 Threaded insert	164 A 10469 X
15	M3 Threaded insert	164 A 10479 X
25	M3 Threaded insert	164 A 10489 X
37	M3 Threaded insert	164 A 10499 X
50	M3 Threaded insert	164 A 10509 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	163 A 11169 X
15	Through-hole	163 A 11179 X
25	Through-hole	163 A 11189 X
37	Through-hole	163 A 11199 X
50	Through-hole	163 A 11209 X
09	4-40 UNC Threaded insert	163 A 11469 X
15	4-40 UNC Threaded insert	163 A 11479 X
25	4-40 UNC Threaded insert	163 A 11489 X
37	4-40 UNC Threaded insert	163 A 11499 X
50	4-40 UNC Threaded insert	163 A 11509 X
09	M3 Threaded insert	163 A 11519 X
15	M3 Threaded insert	163 A 11529 X
25	M3 Threaded insert	163 A 11539 X
37	M3 Threaded insert	163 A 11549 X
50	M3 Threaded insert	163 A 11559 X

D-SUB STANDARD

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

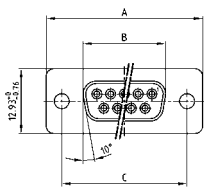


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

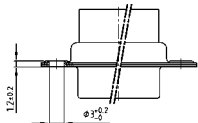
- For machined and stamped contacts, AWG 24...20 and AWG 28...24
- Mounting styles:
 - with through-hole, Ø .118" / 3 mm
 - with 4-40 UNC or M3 threaded insert
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

SOCKET CONNECTOR



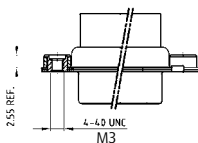
No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13
50	67.31	52.55	61.10 +0.14 -0.11

Mounting style: Through-hole

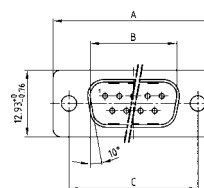


50 pos. = Dim. in (_)

Mounting style: Threaded insert

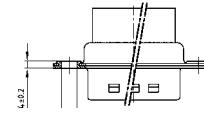


PLUG CONNECTOR



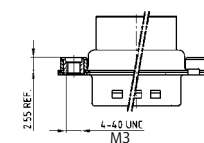
No. of pos.	A -0.76	B -0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

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	164X 11769 X
15	Through-hole	164X 11779 X
25	Through-hole	164X 11789 X
37	Through-hole	164X 11799 X
50	Through-hole	164X 11809 X
09	4-40 UNC Threaded insert	DSS 1XSXXG04 X
15	4-40 UNC Threaded insert	DSS 2XSXXG04 X
25	4-40 UNC Threaded insert	DSS 3XSXXG04 X
37	4-40 UNC Threaded insert	DSS 4XSXXG04 X
50	4-40 UNC Threaded insert	DSS 5XSXXG04 X
09	M3 Threaded insert	DSS 1XPXXG03 X
15	M3 Threaded insert	DSS 2XPXXG03 X
25	M3 Threaded insert	DSS 3XPXXG03 X
37	M3 Threaded insert	DSS 4XPXXG03 X
50	M3 Threaded insert	DSS 5XPXXG03 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	163X 10019 X
15	Through-hole	163X 10029 X
25	Through-hole	163X 10039 X
37	Through-hole	163X 10049 X
50	Through-hole	163X 10059 X
09	4-40 UNC Threaded insert	DSS 1XPXXG04 X
15	4-40 UNC Threaded insert	DSS 2XPXXG04 X
25	4-40 UNC Threaded insert	DSS 3XPXXG04 X
37	4-40 UNC Threaded insert	DSS 4XPXXG04 X
50	4-40 UNC Threaded insert	DSS 5XPXXG04 X
09	M3 Threaded insert	DSS 1XPXXG03 X
15	M3 Threaded insert	DSS 2XPXXG03 X
25	M3 Threaded insert	DSS 3XPXXG03 X
37	M3 Threaded insert	DSS 4XPXXG03 X
50	M3 Threaded insert	DSS 5XPXXG03 X

D-SUB STANDARD

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

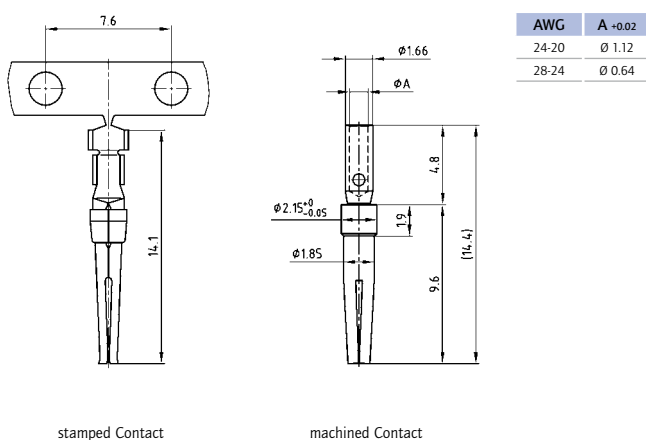


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

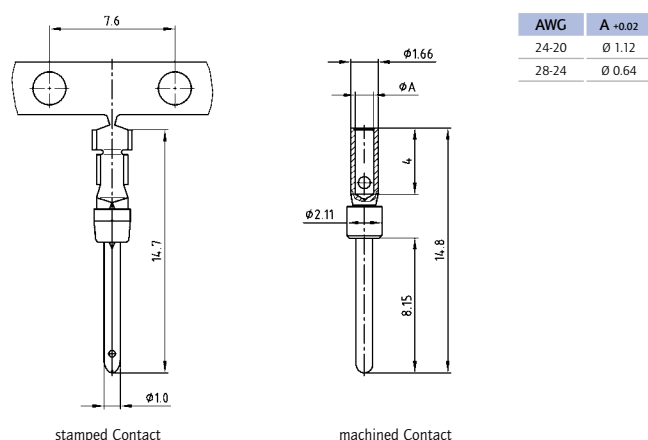
DESCRIPTION

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

FEMALE CONTACT



MALE CONTACT



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)	162 A 11819 X
Stamped / 24...20 / Big reel wheeled right (10.000)	162 A 11829 X
Stamped / 24...20 / Small reel wheeled right (500)	162 A 11839 X
Stamped / 24...20 / Loose contacts (500)	162 A 11849 X
Machined / 24...20 / Loose contacts (500)	162 A 18709 X
Stamped / 28...24 / Big reel wheeled left (10.000)	162 A 11859 X
Stamped / 28...24 / Big reel wheeled right (10.000)	162 A 11869 X
Stamped / 28...24 / small reel wheeled right (500)	162 A 11879 X
Stamped / 28...24 / Loose contacts (500)	162 A 11889 X
Machined / 28...24 / Loose contacts (500)	162 A 18719 X

MALE CONTACTS	
Contact type / AWG	Part Number
Stamped / 24...20 / Big reel wheeled left (10.000)	161 A 13369 X
Stamped / 24...20 / Big reel wheeled right (10.000)	161 A 13379 X
Stamped / 24...20 / Small reel wheeled right (500)	161 A 13389 X
Stamped / 24...20 / Loose contacts (500)	161 A 13399 X
Machined / 24...20 / Loose contacts (500)	161 A 18299 X
Stamped / 28...24 / Big reel wheeled left (10.000)	161 A 13409 X
Stamped / 28...24 / Big reel wheeled right (10.000)	161 A 13419 X
Stamped / 28...24 / Small reel wheeled right (500)	161 A 13429 X
Stamped / 28...24 / Loose contacts (500)	161 A 13439 X
Machined / 28...24 / Loose contacts (500)	161 A 18309 X

D-SUB STANDARD

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

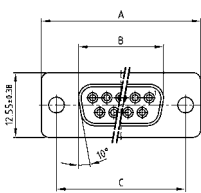


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

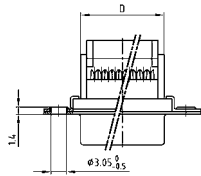
DESCRIPTION

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

SOCKET CONNECTOR



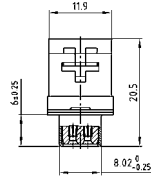
No. of pos.	A ±0.25	B ±0.25	C ±0.13	D ±0.25
09	30.80	16.46	25.00	16.10
15	39.10	24.79	33.30	24.00
25	53.09	38.50	47.04	38.14
37	69.40	54.96	63.50	54.60



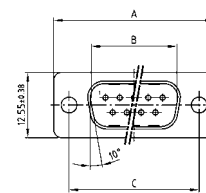
Strain relief



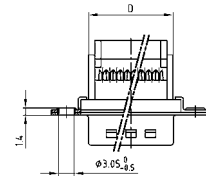
Upper part gouted with strain relief



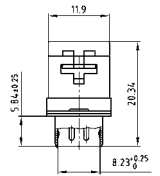
PLUG CONNECTOR



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



Strain relief



ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	302 A 10089 X
15	Through-hole	302 A 10099 X
25	Through-hole	302 A 10109 X
37	Through-hole	302 A 10119 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	301 A 10089 X
15	Through-hole	301 A 10099 X
25	Through-hole	301 A 10109 X
37	Through-hole	301 A 10119 X

D-SUB STANDARD

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



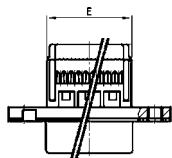
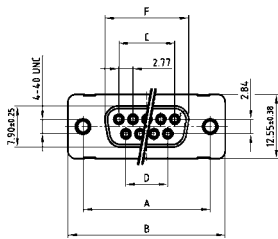
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

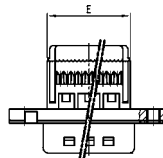
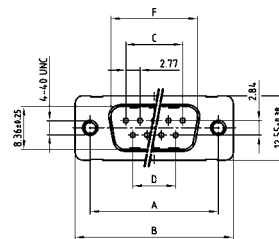
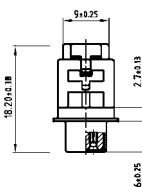
- For wire size **AWG 26...28** flat cable
- Mounting style:
with 4-40 UNC threaded insert
- Connector includes strain relief
- Quality class 3 (other quality classes on request)
- Not suitable for hood assembly
- Shell: Steel tin plated

SOCKET CONNECTOR

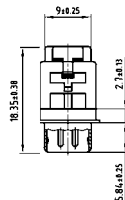
No. of pos.	A ±0.13	B ±0.25	C ±0.13	D ±0.13	E ±0.25	F ±0.25
09	24.99	30.80	11.08	8.31	16.10	16.33
15	33.32	39.10	19.39	16.62	24.00	24.66
25	47.04	53.09	33.24	30.47	38.14	38.38
37	63.50	69.40	49.86	47.09	54.60	54.84



Strain relief



Strain relief



PLUG CONNECTOR

No. of pos.	A ±0.13	B ±0.25	C ±0.13	D ±0.13	E ±0.25	F ±0.25
09	24.99	30.80	11.08	8.31	16.10	16.92
15	33.32	39.10	19.39	16.62	24.00	25.25
25	47.04	53.09	33.24	30.47	38.14	38.96
37	63.50	69.40	49.86	47.09	54.60	55.45

ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	DLS 1XSSAG04 X
15	Threaded insert	DLS 2XSSAG04 X
25	Threaded insert	DLS 3XSSAG04 X
37	Threaded insert	DLS 4XSSAG04 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	DLS 1XPSAG04 X
15	Threaded insert	DLS 2XPSAG04 X
25	Threaded insert	DLS 3XPSAG04 X
37	Threaded insert	DLS 4XPSAG04 X

CONVERSION TABLE

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

D-SUB STANDARD

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

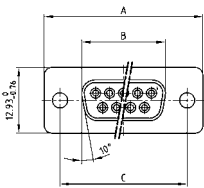


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

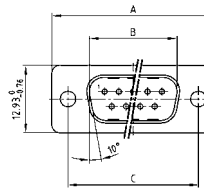
- For wire size **AWG 26...28** flat cable
- Mounting style:
with through-hole, Ø .118" / 3 mm
- Strain relief need to be ordered separately
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated

SOCKET CONNECTOR



No. of pos.	A -0.76	B +0.25	C	E +0.10
09	30.80	16.30	25.00 +0.12	18.73
15	39.20	24.60	33.30 +0.15 -0.10	26.86
25	53.10	38.30	47.04 ±0.13	40.78
37	69.40	54.80	63.50 ±0.13	57.04

PLUG CONNECTOR



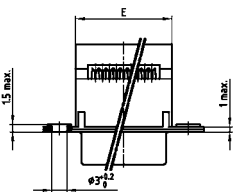
No. of pos.	A -0.76	B +0.25	C	E +0.10
09	30.80	16.79	25.00 +0.12	18.73
15	39.20	25.12	33.30 +0.15 -0.10	26.86
25	53.10	38.84	47.04 ±0.13	40.78
37	69.40	55.30	63.50 ±0.13	57.04

Mounting style: Through-hole

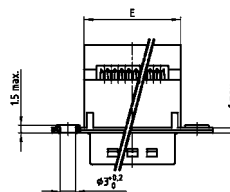
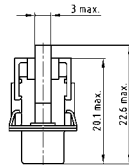
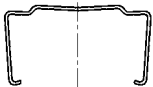
Upper part grouted with strain relief

Mounting style: Through-hole

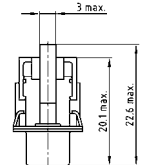
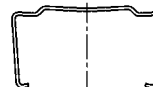
Upper part grouted with strain relief



Strain relief



Strain relief



ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	162 A 11899 X
15	Through-hole	162 A 11909 X
25	Through-hole	162 A 11919 X
37	Through-hole	162 A 11929 X
09	Strain relief	160 X 10019 X
15	Strain relief	160 X 10029 X
25	Strain relief	160 X 10039 X
37	Strain relief	160 X 10049 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	161 A 13499 X
15	Through-hole	161 A 13509 X
25	Through-hole	161 A 13519 X
37	Through-hole	161 A 13529 X
09	Strain relief	160 X 10019 X
15	Strain relief	160 X 10029 X
25	Strain relief	160 X 10039 X
37	Strain relief	160 X 10049 X

D-SUB STANDARD

IDC for flat cable – Stamped contacts – 50 pos. – For wire size AWG 26...28

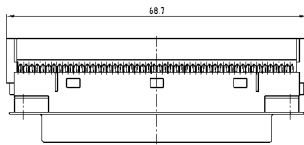
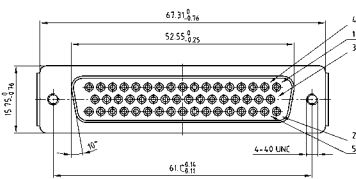


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

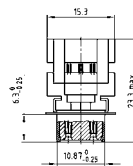
DESCRIPTION

- For wire size **AWG 26...28** flat cable
- Mounting style:
with 4-40 UNC threaded insert
- Strain relief need to be ordered separately
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated

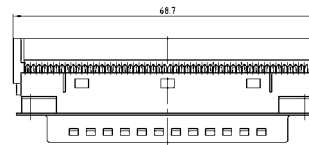
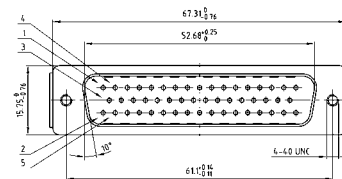
SOCKET CONNECTOR



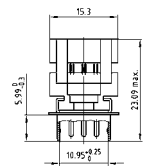
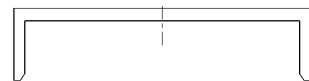
Strain relief



PLUG CONNECTOR



Strain relief



ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
50	4-40 UNC Threaded insert	162 A 11939 X
50	Strain relief	160 X 10059 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
50	4-40 UNC Threaded insert	161 A 13539 X
50	Strain relief	160 X 10059 X

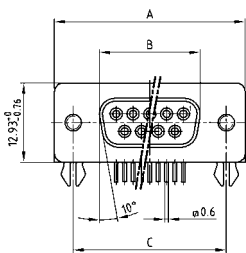
D-SUB STANDARD

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



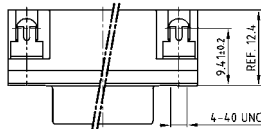
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

SOCKET CONNECTOR

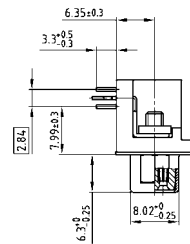
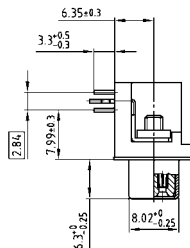
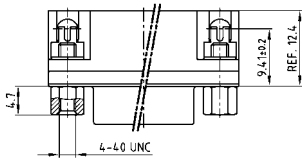


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 ±0.12
15	39.52	24.79	33.30 ±0.15 ±0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

Mounting style: PCB clip, threaded insert



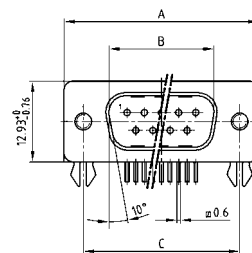
Mounting style: PCB clip, front spacer



DESCRIPTION

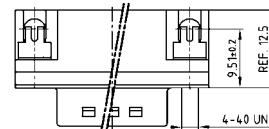
- Mounting styles:
 - with mounting bracket, PCB clip and 4-40 UNC threaded insert
 - with mounting bracket, PCB clip and 4-40 UNC hex bolt
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

PLUG CONNECTOR

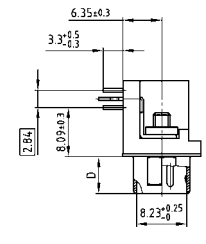
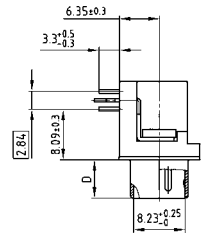
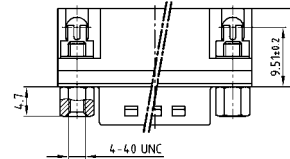


No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 ±0.12	6.12
15	39.52	25.12	33.30 ±0.15 ±0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

Mounting style: PCB clip, threaded insert



Mounting style: PCB clip, front spacer



ORDER DATA

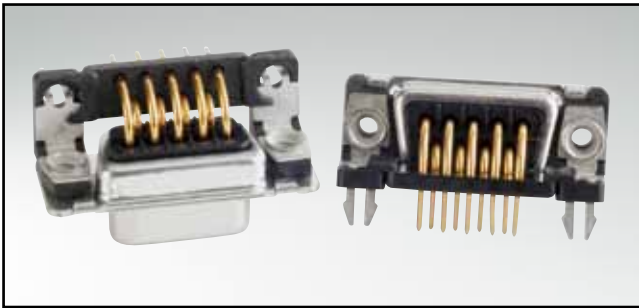
SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip/Threaded insert	302 A 11339 X
15	PCB clip/Threaded insert	302 A 11349 X
25	PCB clip/Threaded insert	302 A 11359 X
37	PCB clip/Threaded insert	302 A 11369 X
09	PCB clip/Hex bolt	302 A 11249 X
15	PCB clip/Hex bolt	302 A 11259 X
25	PCB clip/Hex bolt	302 A 11269 X
37	PCB clip/Hex bolt	302 A 11279 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip/Threaded insert	301 A 11029 X
15	PCB clip/Threaded insert	301 A 11039 X
25	PCB clip/Threaded insert	301 A 11049 X
37	PCB clip/Threaded insert	301 A 11059 X
09	PCB clip/ Front spacer	301 A 10939 X
15	PCB clip/ Front spacer	301 A 10949 X
25	PCB clip/ Front spacer	301 A 10959 X
37	PCB clip/ Front spacer	301 A 10969 X

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 – Precision machined contacts – Plastic bracket

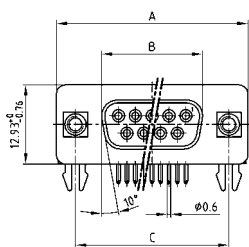


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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)

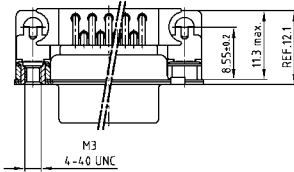
SOCKET CONNECTOR



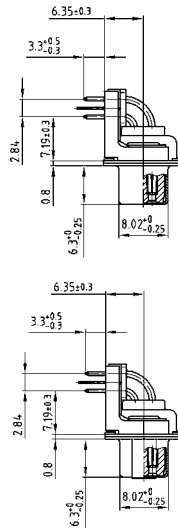
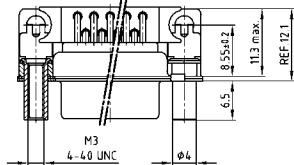
No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 ±0.12
15	39.52	24.79	33.30 ±0.15 ±0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

PCB layout: Kat1kGEA

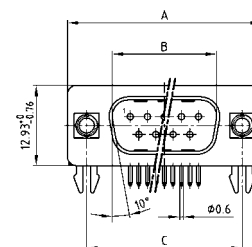
Mounting style: PCB clip, threaded insert



Mounting style: PCB clip, front spacer



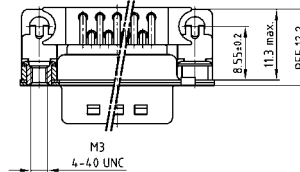
PLUG CONNECTOR



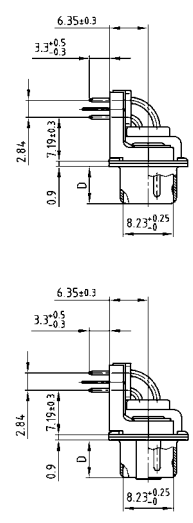
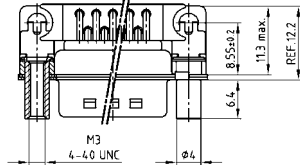
No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 ±0.12	6.12
15	39.52	25.12	33.30 ±0.15 ±0.10	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

PCB layout: Kat1kGFA

Mounting style: PCB clip, threaded insert



Mounting style: PCB clip, front spacer



ORDER DATA

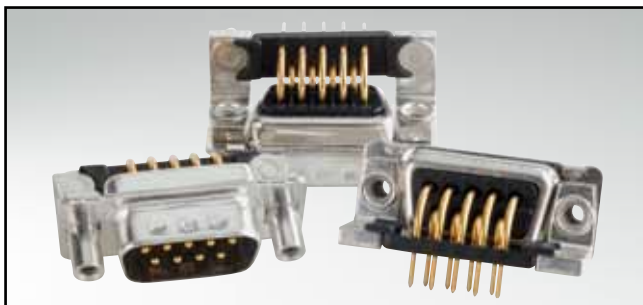
SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	PCB clip / 4-40 UNC Threaded insert	164 A 18809 X
15	PCB clip / 4-40 UNC Threaded insert	164 A 18819 X
25	PCB clip / 4-40 UNC Threaded insert	164 A 18829 X
37	PCB clip / 4-40 UNC Threaded insert	164 A 18839 X
09	PCB clip / M3 Threaded insert	164 A 18849 X
15	PCB clip / M3 Threaded insert	164 A 18859 X
25	PCB clip / M3 Threaded insert	164 A 18869 X
37	PCB clip / M3 Threaded insert	164 A 18879 X
09	PCB clip / 4-40 UNC Front spacer	164 A 18889 X
15	PCB clip / 4-40 UNC Front spacer	164 A 18899 X
25	PCB clip / 4-40 UNC Front spacer	164 A 18909 X
37	PCB clip / 4-40 UNC Front spacer	164 A 18919 X
09	PCB clip / M3 Front spacer	164 A 18929 X
15	PCB clip / M3 Front spacer	164 A 18939 X
25	PCB clip / M3 Front spacer	164 A 18949 X
37	PCB clip / M3 Front spacer	164 A 18959 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	PCB clip / 4-40 UNC Threaded insert	163 A 18389 X
15	PCB clip / 4-40 UNC Threaded insert	163 A 18399 X
25	PCB clip / 4-40 UNC Threaded insert	163 A 18409 X
37	PCB clip / 4-40 UNC Threaded insert	163 A 18419 X
09	PCB clip / M3 Threaded insert	163 A 18429 X
15	PCB clip / M3 Threaded insert	163 A 18439 X
25	PCB clip / M3 Threaded insert	163 A 18449 X
37	PCB clip / M3 Threaded insert	163 A 18459 X
09	PCB clip / 4-40 UNC Front spacer	163 A 18469 X
15	PCB clip / 4-40 UNC Front spacer	163 A 18479 X
25	PCB clip / 4-40 UNC Front spacer	163 A 18489 X
37	PCB clip / 4-40 UNC Front spacer	163 A 18499 X
09	PCB clip / M3 Front spacer	163 A 18509 X
15	PCB clip / M3 Front spacer	163 A 18519 X
25	PCB clip / M3 Front spacer	163 A 18529 X
37	PCB clip / M3 Front spacer	163 A 18539 X

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

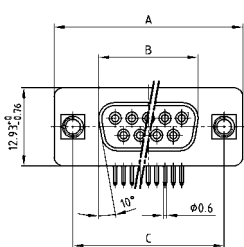
D-SUB STANDARD

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



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

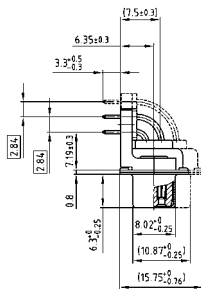
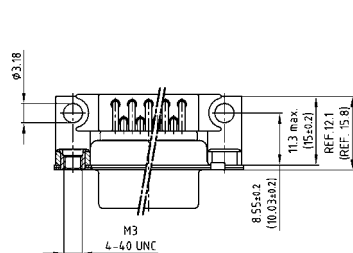
SOCKET CONNECTOR



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

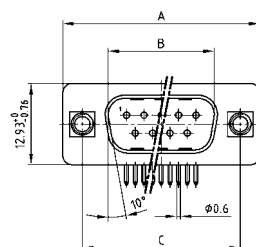


50 pos. = Dim. in (_)

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)

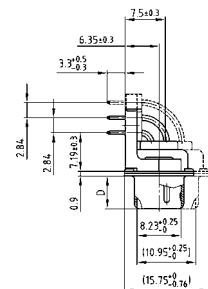
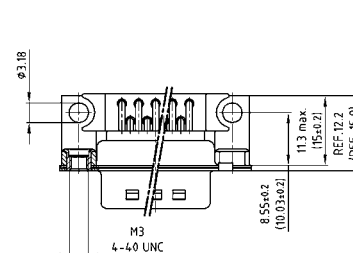
PLUG CONNECTOR



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

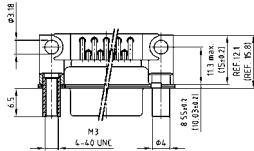
SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	164 A 11519 X
15	4-40 UNC Threaded insert	164 A 11529 X
25	4-40 UNC Threaded insert	164 A 11539 X
37	4-40 UNC Threaded insert	164 A 11549 X
50	4-40 UNC Threaded insert	164 A 18969 X
09	M3 Threaded insert	164 A 13439 X
15	M3 Threaded insert	164 A 13449 X
25	M3 Threaded insert	164 A 13459 X
37	M3 Threaded insert	164 A 13469 X
50	M3 Threaded insert	164 A 18979 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	163 A 13069 X
15	4-40 UNC Threaded insert	163 A 13079 X
25	4-40 UNC Threaded insert	163 A 13089 X
37	4-40 UNC Threaded insert	163 A 13099 X
50	4-40 UNC Threaded insert	163 A 18549 X
09	M3 Threaded insert	163 A 14959 X
15	M3 Threaded insert	163 A 14969 X
25	M3 Threaded insert	163 A 14979 X
37	M3 Threaded insert	163 A 14989 X
50	M3 Threaded insert	163 A 18559 X

D-SUB STANDARD – MOUNTING STYLES

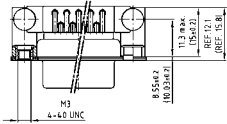
Solder pin – Angled – .318" / 7.19 mm – Precision machined contacts – Metal bracket

ORDER DATA



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front spacer	164 A 16929 X
15	4-40 UNC Front spacer	164 A 16939 X
25	4-40 UNC Front spacer	164 A 16949 X
37	4-40 UNC Front spacer	164 A 16959 X
50	4-40 UNC Front spacer	164 A 19019 X
09	M3 Front spacer	164 A 16969 X
15	M3 Front spacer	164 A 16979 X
25	M3 Front spacer	164 A 16989 X
37	M3 Front spacer	164 A 16999 X
50	M3 Front spacer	164 A 19029 X

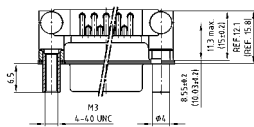
PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Front spacer	163 A 16519 X
15	4-40 UNC Front spacer	163 A 16529 X
25	4-40 UNC Front spacer	163 A 16539 X
37	4-40 UNC Front spacer	163 A 16549 X
50	4-40 UNC Front spacer	163 A 18589 X
09	M3 Front spacer	163 A 16559 X
15	M3 Front spacer	163 A 16569 X
25	M3 Front spacer	163 A 16579 X
37	M3 Front spacer	163 A 16589 X
50	M3 Front spacer	163 A 18599 X



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	PCB clip / 4-40 UNC Threaded insert	164 A 17939 X
15	PCB clip / 4-40 UNC Threaded insert	164 A 17949 X
25	PCB clip / 4-40 UNC Threaded insert	164 A 17959 X
37	PCB clip / 4-40 UNC Threaded insert	164 A 17969 X
50	PCB clip / 4-40 UNC Threaded insert	164 A 18989 X
09	PCB clip / M3 Threaded insert	164 A 17979 X
15	PCB clip / M3 Threaded insert	164 A 17989 X
25	PCB clip / M3 Threaded insert	164 A 17999 X
37	PCB clip / M3 Threaded insert	164 A 18009 X
50	PCB clip / M3 Threaded insert	164 A 18999 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	PCB clip / 4-40 UNC Threaded insert	163 A 17529 X
15	PCB clip / 4-40 UNC Threaded insert	163 A 17539 X
25	PCB clip / 4-40 UNC Threaded insert	163 A 17549 X
37	PCB clip / 4-40 UNC Threaded insert	163 A 17559 X
50	PCB clip / 4-40 UNC Threaded insert	163 A 18569 X
09	PCB clip / M3 Threaded insert	163 A 17569 X
15	PCB clip / M3 Threaded insert	163 A 17579 X
25	PCB clip / M3 Threaded insert	163 A 17589 X
37	PCB clip / M3 Threaded insert	163 A 17599 X
50	PCB clip / M3 Threaded insert	163 A 18579 X

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	164 A 19039 X
15	PCB clip / 4-40 UNC Front spacer	164 A 19049 X
25	PCB clip / 4-40 UNC Front spacer	164 A 19059 X
37	PCB clip / 4-40 UNC Front spacer	164 A 19069 X
50	PCB clip / 4-40 UNC Front spacer	164 A 19079 X
09	PCB clip / M3 Front spacer	164 A 19089 X
15	PCB clip / M3 Front spacer	164 A 19099 X
25	PCB clip / M3 Front spacer	164 A 19109 X
37	PCB clip / M3 Front spacer	164 A 19119 X
50	PCB clip / M3 Front spacer	164 A 19129 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	PCB clip / 4-40 UNC Front spacer	163 A 18609 X
15	PCB clip / 4-40 UNC Front spacer	163 A 18619 X
25	PCB clip / 4-40 UNC Front spacer	163 A 18629 X
37	PCB clip / 4-40 UNC Front spacer	163 A 18639 X
50	PCB clip / 4-40 UNC Front spacer	163 A 18649 X
09	PCB clip / M3 Front spacer	163 A 18659 X
15	PCB clip / M3 Front spacer	163 A 18669 X
25	PCB clip / M3 Front spacer	163 A 18679 X
37	PCB clip / M3 Front spacer	163 A 18689 X
50	PCB clip / M3 Front spacer	163 A 18699 X

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

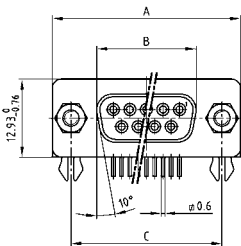
D-SUB STANDARD

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



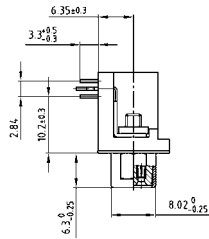
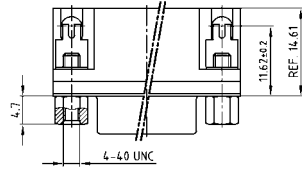
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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}

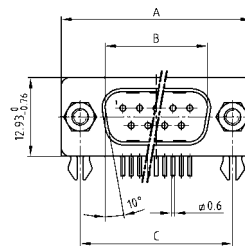
Mounting style: PCB clip, front spacer



DESCRIPTION

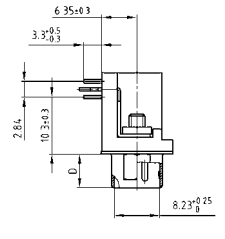
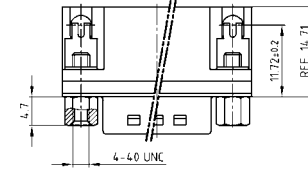
- Mounting style:
with mounting bracket, PCB clip and 4-40 UNC hex bolt
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

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

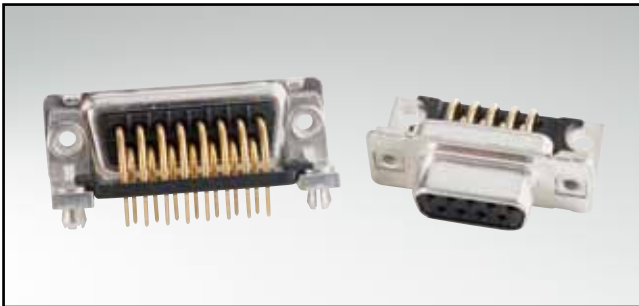
SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip / Hex bolt	302 A 10779 X
15	PCB clip / Hex bolt	302 A 10789 X
25	PCB clip / Hex bolt	302 A 10799 X
37	PCB clip / Hex bolt	302 A 10809 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip / Hex bolt	301 A 10679 X
15	PCB clip / Hex bolt	301 A 10689 X
25	PCB clip / Hex bolt	301 A 10699 X
37	PCB clip / Hex bolt	301 A 10709 X

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 – Metal bracket

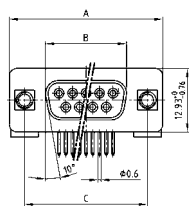


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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)

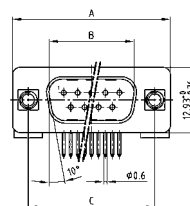
SOCKET CONNECTOR



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: Kat1kGAA

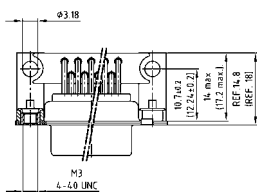
PLUG CONNECTOR



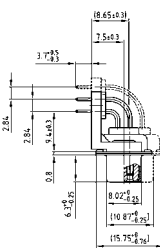
No. of pos.	A -0.76	B -0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 +0.13	5.99
37	69.70	55.30	63.50 +0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

PCB layout: Kat1kGHA

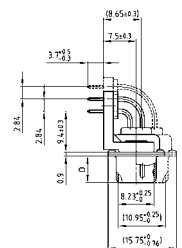
Mounting style: Threaded insert



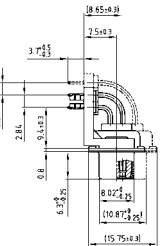
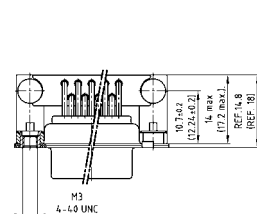
50 pos. = Dim. in (_ _)



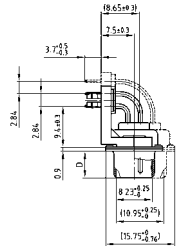
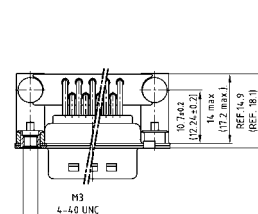
50 pos. = Dim. in (_ _)



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	164 A 10969 X
15	4-40 UNC Threaded insert	164 A 10979 X
25	4-40 UNC Threaded insert	164 A 10989 X
37	4-40 UNC Threaded insert	164 A 10999 X
50	4-40 UNC Threaded insert	164 A 18739 X
09	M3 Threaded insert	164 A 11019 X
15	M3 Threaded insert	164 A 11029 X
25	M3 Threaded insert	164 A 11039 X
37	M3 Threaded insert	164 A 11049 X
50	M3 Threaded insert	164 A 18749 X
09	PCB clip / 4-40 UNC Threaded insert	164 A 16769 X
15	PCB clip / 4-40 UNC Threaded insert	164 A 16779 X
25	PCB clip / 4-40 UNC Threaded insert	164 A 16789 X
37	PCB clip / 4-40 UNC Threaded insert	164 A 16799 X
50	PCB clip / 4-40 UNC Threaded insert	164 A 18759 X
09	PCB clip / M3 Threaded insert	164 A 16809 X
15	PCB clip / M3 Threaded insert	164 A 16819 X
25	PCB clip / M3 Threaded insert	164 A 16829 X
37	PCB clip / M3 Threaded insert	164 A 16839 X
50	PCB clip / M3 Threaded insert	164 A 18769 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	4-40 UNC Threaded insert	163 A 12019 X
15	4-40 UNC Threaded insert	163 A 12029 X
25	4-40 UNC Threaded insert	163 A 12039 X
37	4-40 UNC Threaded insert	163 A 12049 X
50	4-40 UNC Threaded insert	163 A 18319 X
09	M3 Threaded insert	163 A 12069 X
15	M3 Threaded insert	163 A 12079 X
25	M3 Threaded insert	163 A 12089 X
37	M3 Threaded insert	163 A 12099 X
50	M3 Threaded insert	163 A 18329 X
09	PCB clip / 4-40 UNC Threaded insert	163 A 16359 X
15	PCB clip / 4-40 UNC Threaded insert	163 A 16369 X
25	PCB clip / 4-40 UNC Threaded insert	163 A 16379 X
37	PCB clip / 4-40 UNC Threaded insert	163 A 16389 X
50	PCB clip / 4-40 UNC Threaded insert	163 A 18339 X
09	PCB clip / M3 Threaded insert	163 A 16399 X
15	PCB clip / M3 Threaded insert	163 A 16409 X
25	PCB clip / M3 Threaded insert	163 A 16419 X
37	PCB clip / M3 Threaded insert	163 A 16429 X
50	PCB clip / M3 Threaded insert	163 A 18349 X

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

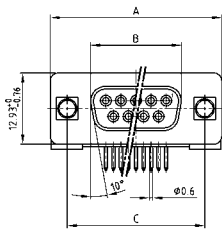
D-SUB STANDARD

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

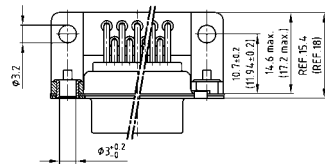
SOCKET CONNECTOR



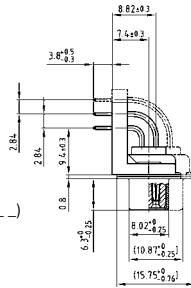
No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 +0.13
37	69.70	54.96	63.50 +0.13
50	67.31	52.55	61.10 +0.14 -0.11

PCB layout: Kat1kGGA

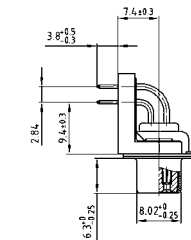
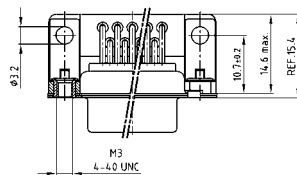
Mounting style: Through-hole



50 pos. = Dim. in (_)



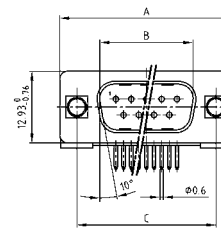
Mounting style: Threaded insert



DESCRIPTION

- Mounting styles:
 - with mounting bracket and $\varnothing .118''/3$ 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)

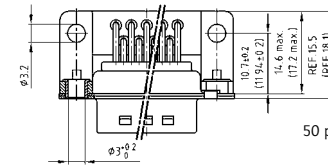
PLUG CONNECTOR



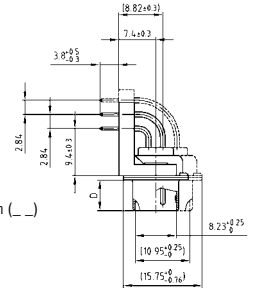
No. of pos.	A -0.76	B -0.25	C	D -0.3
09	31.19	16.79	25.00 +0.12	6.12
15	39.52	25.12	33.30 +0.15 -0.10	6.12
25	53.42	38.84	47.04 +0.13	5.99
37	69.70	55.30	63.50 +0.13	5.99
50	67.31	52.68	61.10 +0.14 -0.11	5.99

PCB layout: Kat1kGHA

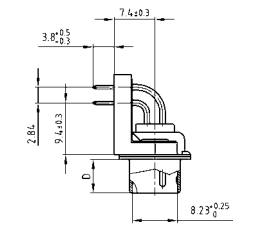
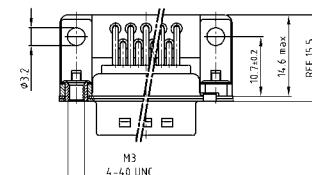
Mounting style: Through-hole



50 pos. = Dim. in (_)



Mounting style: Threaded insert



ORDER DATA

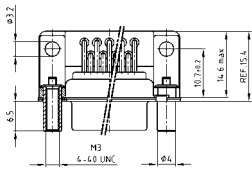
SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	164 A 10669 X
15	Through-hole	164 A 10679 X
25	Through-hole	164 A 10689 X
37	Through-hole	164 A 10699 X
50	Through-hole	164 A 10709 X
09	Grounding strap / 4-40 UNC Threaded insert	164 A 12329 X
15	Grounding strap / 4-40 UNC Threaded insert	164 A 12339 X
25	Grounding strap / 4-40 UNC Threaded insert	164 A 12349 X
37	Grounding strap / 4-40 UNC Threaded insert	164 A 12359 X
09	Grounding strap / M3 Threaded insert	164 A 12519 X
15	Grounding strap / M3 Threaded insert	164 A 12529 X
25	Grounding strap / M3 Threaded insert	164 A 12539 X
37	Grounding strap / M3 Threaded insert	164 A 12549 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Through-hole	163 A 11719 X
15	Through-hole	163 A 11729 X
25	Through-hole	163 A 11739 X
37	Through-hole	163 A 11749 X
50	Through-hole	163 A 11759 X
09	Grounding strap / 4-40 UNC Threaded insert	163 A 14119 X
15	Grounding strap / 4-40 UNC Threaded insert	163 A 14129 X
25	Grounding strap / 4-40 UNC Threaded insert	163 A 14139 X
37	Grounding strap / 4-40 UNC Threaded insert	163 A 14149 X
09	Grounding strap / M3 Threaded insert	163 A 14169 X
15	Grounding strap / M3 Threaded insert	163 A 14179 X
25	Grounding strap / M3 Threaded insert	163 A 14189 X
37	Grounding strap / M3 Threaded insert	163 A 14199 X

D-SUB STANDARD – MOUNTING STYLES

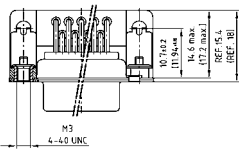
Solder pin – Angled – .370" / 9.4 mm – Precision machined contacts – Plastic bracket

ORDER DATA



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Grounding strap/4-40 UNC Front spacer	164 A 12229 X
15	Grounding strap/4-40 UNC Front spacer	164 A 12239 X
25	Grounding strap/4-40 UNC Front spacer	164 A 12249 X
37	Grounding strap/4-40 UNC Front spacer	164 A 12259 X
09	Grounding strap/M3 Front spacer	164 A 12279 X
15	Grounding strap/M3 Front spacer	164 A 12289 X
25	Grounding strap/M3 Front spacer	164 A 12299 X
37	Grounding strap/M3 Front spacer	164 A 12309 X

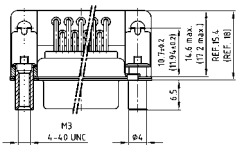
PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	Grounding strap/4-40 UNC Front spacer	163 A 13829 X
15	Grounding strap/4-40 UNC Front spacer	163 A 13839 X
25	Grounding strap/4-40 UNC Front spacer	163 A 13849 X
37	Grounding strap/4-40 UNC Front spacer	163 A 13859 X
09	Grounding strap/M3 Front spacer	163 A 13879 X
15	Grounding strap/M3 Front spacer	163 A 13889 X
25	Grounding strap/M3 Front spacer	163 A 13899 X
37	Grounding strap/M3 Front spacer	163 A 13909 X



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	PCB clip / 4-40 UNC Threaded insert	164 A 12969 X
15	PCB clip / 4-40 UNC Threaded insert	164 A 12979 X
25	PCB clip / 4-40 UNC Threaded insert	164 A 12989 X
37	PCB clip / 4-40 UNC Threaded insert	164 A 12999 X
50	PCB clip / 4-40 UNC Threaded insert	164 A 19139 X
09	PCB clip / M3 Threaded insert	164 A 13009 X
15	PCB clip / M3 Threaded insert	164 A 13019 X
25	PCB clip / M3 Threaded insert	164 A 13029 X
37	PCB clip / M3 Threaded insert	164 A 13039 X
50	PCB clip / M3 Threaded insert	164 A 19149 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	PCB clip / 4-40 UNC Threaded insert	163 A 14489 X
15	PCB clip / 4-40 UNC Threaded insert	163 A 14499 X
25	PCB clip / 4-40 UNC Threaded insert	163 A 14509 X
37	PCB clip / 4-40 UNC Threaded insert	163 A 14519 X
50	PCB clip / 4-40 UNC Threaded insert	163 A 18709 X
09	PCB clip / M3 Threaded insert	163 A 14529 X
15	PCB clip / M3 Threaded insert	163 A 14539 X
25	PCB clip / M3 Threaded insert	163 A 14549 X
37	PCB clip / M3 Threaded insert	163 A 14559 X
50	PCB clip / M3 Threaded insert	163 A 18719 X

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	164 A 13089 X
15	PCB clip / 4-40 UNC Front spacer	164 A 13099 X
25	PCB clip / 4-40 UNC Front spacer	164 A 13109 X
37	PCB clip / 4-40 UNC Front spacer	164 A 13119 X
50	PCB clip / 4-40 UNC Front spacer	164 A 19159 X
09	PCB clip / M3 Front spacer	164 A 13129 X
15	PCB clip / M3 Front spacer	164 A 13139 X
25	PCB clip / M3 Front spacer	164 A 13149 X
37	PCB clip / M3 Front spacer	164 A 13159 X
50	PCB clip / M3 Front spacer	164 A 19169 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	PCB clip / 4-40 UNC Front spacer	163 A 14609 X
15	PCB clip / 4-40 UNC Front spacer	163 A 14619 X
25	PCB clip / 4-40 UNC Front spacer	163 A 14629 X
37	PCB clip / 4-40 UNC Front spacer	163 A 14639 X
50	PCB clip / 4-40 UNC Front spacer	163 A 18729 X
09	PCB clip / M3 Front spacer	163 A 14649 X
15	PCB clip / M3 Front spacer	163 A 14659 X
25	PCB clip / M3 Front spacer	163 A 14669 X
37	PCB clip / M3 Front spacer	163 A 14679 X
50	PCB clip / M3 Front spacer	163 A 18739 X

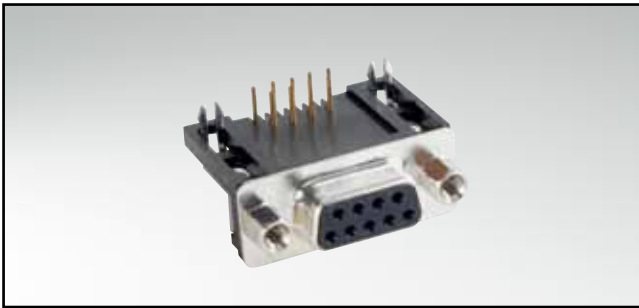
PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

PCB layout: Kat1kGGA

PCB layout: Kat1kGHA

D-SUB STANDARD

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

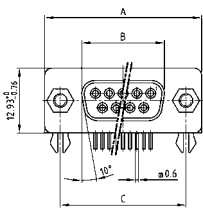


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

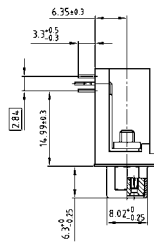
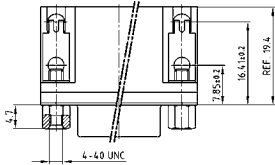
- Mounting style:
with mounting bracket, PCB clip and 4-40 UNC hex bolt
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

SOCKET CONNECTOR

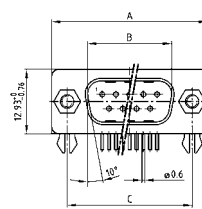


No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 +0.12
15	39.52	24.79	33.30 +0.15 -0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

Mounting style: PCB clip, front spacer

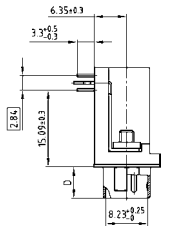
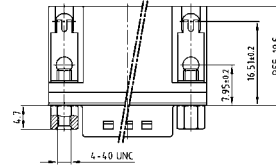


PLUG CONNECTOR



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	302 A 11289 X
15	PCB clip/Hex bolt	302 A 11299 X
25	PCB clip/Hex bolt	302 A 11309 X
37	PCB clip/Hex bolt	302 A 11319 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip/Hex bolt	301 A 10979 X
15	PCB clip/Hex bolt	301 A 10989 X
25	PCB clip/Hex bolt	301 A 10999 X
37	PCB clip/Hex bolt	301 A 11009 X

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 – Plastic bracket

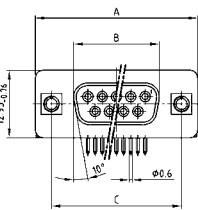


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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)

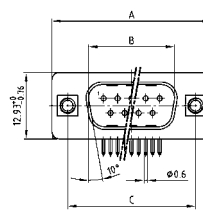
SOCKET CONNECTOR



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

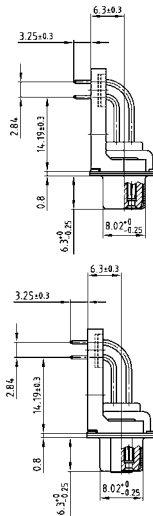
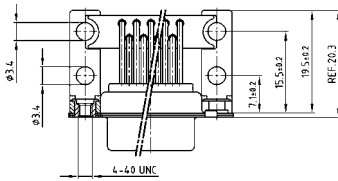
PLUG CONNECTOR



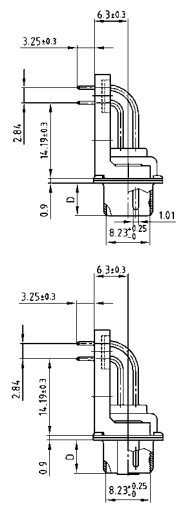
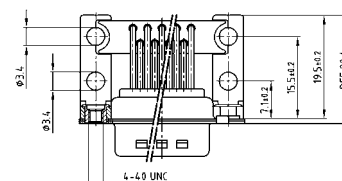
No. of pos.	A -0.76	B +0.25	C	D -0.3
09	31.19	16.79	25.00 ±0.12	6.12
15	39.52	25.12	33.30 ^{+0.15} / _{-0.10}	6.12
25	53.42	38.84	47.04 ±0.13	5.99
37	69.70	55.30	63.50 ±0.13	5.99

PCB layout: Kat1kGLA

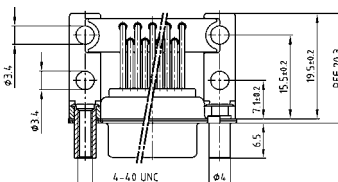
Mounting style: Threaded insert



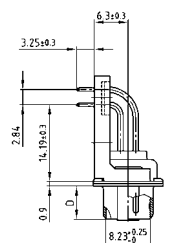
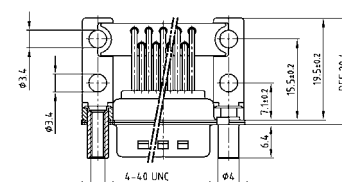
Mounting style: Threaded insert



Mounting style: Front spacer



Mounting style: Front spacer



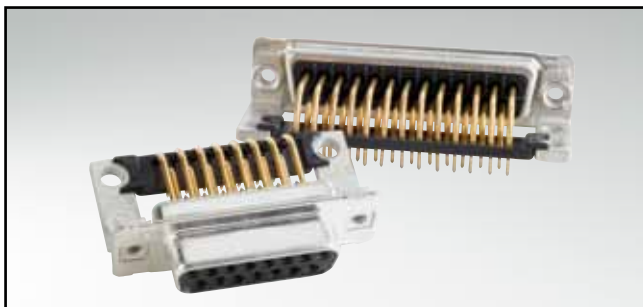
ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	164 A 19519 X
15	Threaded insert	164 A 19529 X
25	Threaded insert	164 A 19539 X
37	Threaded insert	164 A 19549 X
09	Front spacer	164 A 19559 X
15	Front spacer	164 A 19569 X
25	Front spacer	164 A 19579 X
37	Front spacer	164 A 19589 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	163 A 19089 X
15	Threaded insert	163 A 19099 X
25	Threaded insert	163 A 19109 X
37	Threaded insert	163 A 19119 X
09	Front spacer	163 A 19129 X
15	Front spacer	163 A 19139 X
25	Front spacer	163 A 19149 X
37	Front spacer	163 A 19159 X

D-SUB STANDARD

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

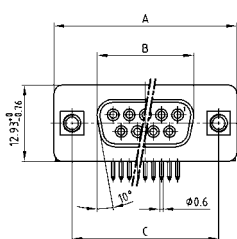


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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)

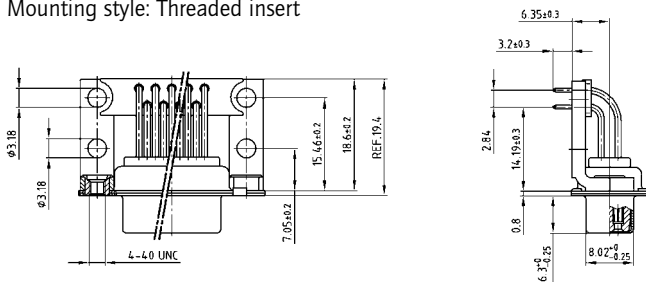
SOCKET CONNECTOR



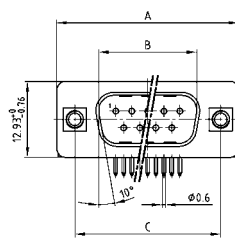
No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 ±0.12
15	39.52	24.79	33.30 ±0.15 ±0.10
25	53.42	38.50	47.04 ±0.13
37	69.70	54.96	63.50 ±0.13

PCB layout: Kat1kGIA

Mounting style: Threaded insert



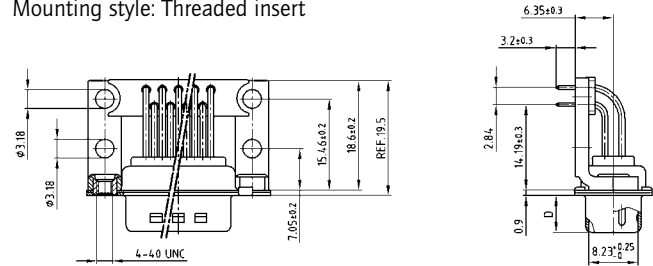
PLUG CONNECTOR



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

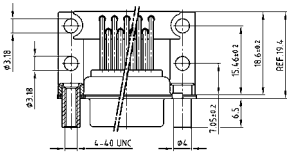
SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	164 A 19599 X
15	Threaded insert	164 A 19609 X
25	Threaded insert	164 A 19619 X
37	Threaded insert	164 A 19629 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	163 A 19169 X
15	Threaded insert	163 A 19179 X
25	Threaded insert	163 A 19189 X
37	Threaded insert	163 A 19199 X

D-SUB STANDARD – MOUNTING STYLES

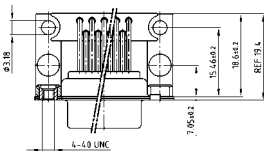
Solder pin – Angled – .590" / 14.19 mm – Precision machined contacts – Metal bracket

ORDER DATA



SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front spacer	164 A 19679 X
15	Front spacer	164 A 19689 X
25	Front spacer	164 A 19699 X
37	Front spacer	164 A 19709 X

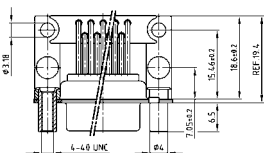
PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front spacer	163 A 19249 X
15	Front spacer	163 A 19259 X
25	Front spacer	163 A 19269 X
37	Front spacer	163 A 19279 X



SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip/Threaded insert	164 A 19639 X
15	PCB clip/Threaded insert	164 A 19649 X
25	PCB clip/Threaded insert	164 A 19659 X
37	PCB clip/Threaded insert	164 A 19669 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip/Threaded insert	163 A 19209 X
15	PCB clip/Threaded insert	163 A 19219 X
25	PCB clip/Threaded insert	163 A 19229 X
37	PCB clip/Threaded insert	163 A 19239 X

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	164 A 19719 X
15	PCB clip/Front spacer	164 A 19729 X
25	PCB clip/Front spacer	164 A 19739 X
37	PCB clip/Front spacer	164 A 19749 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	PCB clip/Front spacer	163 A 19289 X
15	PCB clip/Front spacer	163 A 19299 X
25	PCB clip/Front spacer	163 A 19309 X
37	PCB clip/Front spacer	163 A 19319 X

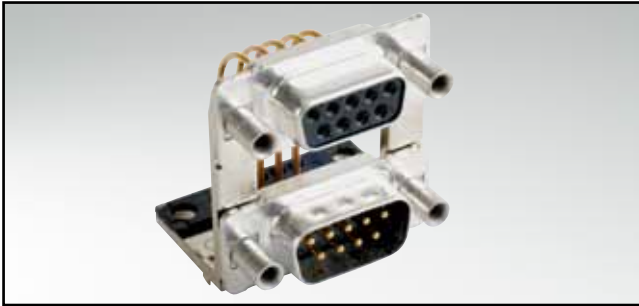
PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

PCB layout: Kat1kGIA

PCB layout: Kat1kGJA

D-SUB STANDARD – 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

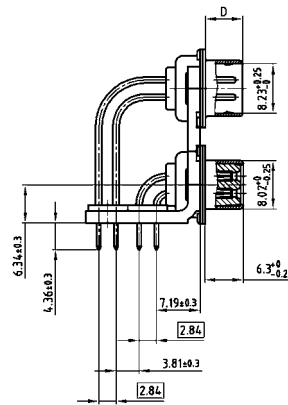
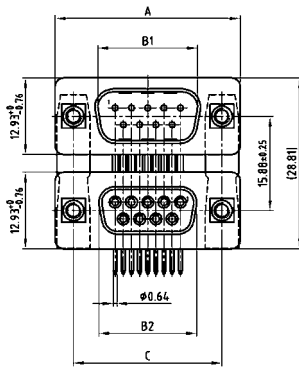
DESCRIPTION

- 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

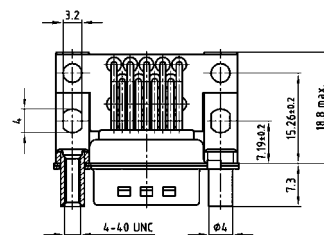
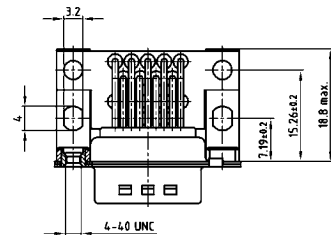
No. of pos.	A -0.76	B1 +0.25	B2 -0.25	C	D -0.30
2X 09	31.19	16.79	16.46	25.00 +0.12	6.12
2X 15	39.52	25.12	24.79	33.30 +0.15 +0.10	6.12
2X 25	53.42	38.84	38.50	47.04 +0.13	5.99
2X 37	69.70	55.30	54.96	63.50 +0.13	5.99

Graphically representation of only one variant!



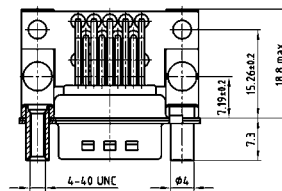
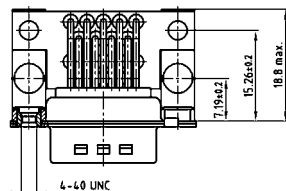
Mounting style: Threaded insert

Mounting style: Front spacer



Mounting style: PCB clip, threaded insert

Mounting style: PCB clip, front spacer

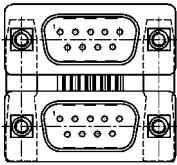


D-SUB STANDARD – DUAL PORT VARIATIONS

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

ORDER DATA

PCB layout: Kat1U5A

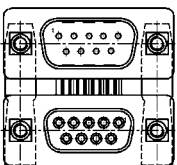


Variation:
plug upper –
plug bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	163 A 15199 X
15 / 15	Threaded insert	163 A 15209 X
25 / 25	Threaded insert	163 A 15219 X
37 / 37	Threaded insert	163 A 15229 X
09 / 09	Front spacer	163 A 15359 X
15 / 15	Front spacer	163 A 15369 X
25 / 25	Front spacer	163 A 15379 X
37 / 37	Front spacer	163 A 15389 X
09 / 09	PCB clip / Threaded insert	163 A 19969 X
15 / 15	PCB clip / Threaded insert	163 A 19979 X
25 / 25	PCB clip / Threaded insert	163 A 19989 X
37 / 37	PCB clip / Threaded insert	163 A 19999 X
09 / 09	PCB clip / Front spacer	163 A 19329 X
15 / 15	PCB clip / Front spacer	163 A 19339 X
25 / 25	PCB clip / Front spacer	163 A 19349 X
37 / 37	PCB clip / Front spacer	163 A 19359 X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	163 A 15279 X
15 / 15	Threaded insert	163 A 15289 X
25 / 25	Threaded insert	163 A 15299 X
37 / 37	Threaded insert	163 A 15309 X
09 / 09	Front spacer	163 A 15439 X
15 / 15	Front spacer	163 A 15449 X
25 / 25	Front spacer	163 A 15459 X
37 / 37	Front spacer	163 A 15469 X
09 / 09	PCB clip / Threaded insert	163 A 20049 X
15 / 15	PCB clip / Threaded insert	163 A 20059 X
25 / 25	PCB clip / Threaded insert	163 A 20069 X
37 / 37	PCB clip / Threaded insert	163 A 20079 X
09 / 09	PCB clip / Front spacer	163 A 19409 X
15 / 15	PCB clip / Front spacer	163 A 19419 X
25 / 25	PCB clip / Front spacer	163 A 19429 X
37 / 37	PCB clip / Front spacer	163 A 19439 X

PCB layout: Kat1U6A

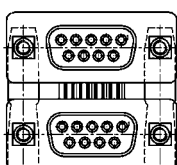


Variation:
plug upper –
socket bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	163 A 15239 X
15 / 15	Threaded insert	163 A 15249 X
25 / 25	Threaded insert	163 A 15259 X
37 / 37	Threaded insert	163 A 15269 X
09 / 09	Front spacer	163 A 15399 X
15 / 15	Front spacer	163 A 15409 X
25 / 25	Front spacer	163 A 15419 X
37 / 37	Front spacer	163 A 15429 X
09 / 09	PCB clip / Threaded insert	163 A 20009 X
15 / 15	PCB clip / Threaded insert	163 A 20019 X
25 / 25	PCB clip / Threaded insert	163 A 20029 X
37 / 37	PCB clip / Threaded insert	163 A 20039 X
09 / 09	PCB clip / Front spacer	163 A 19369 X
15 / 15	PCB clip / Front spacer	163 A 19379 X
25 / 25	PCB clip / Front spacer	163 A 19389 X
37 / 37	PCB clip / Front spacer	163 A 19399 X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	163 A 15319 X
15 / 15	Threaded insert	163 A 15329 X
25 / 25	Threaded insert	163 A 15339 X
37 / 37	Threaded insert	163 A 15349 X
09 / 09	Front spacer	163 A 15479 X
15 / 15	Front spacer	163 A 15489 X
25 / 25	Front spacer	163 A 15499 X
37 / 37	Front spacer	163 A 15509 X
09 / 09	PCB clip / Threaded insert	163 A 20089 X
15 / 15	PCB clip / Threaded insert	163 A 20099 X
25 / 25	PCB clip / Threaded insert	163 A 20109 X
37 / 37	PCB clip / Threaded insert	163 A 20119 X
09 / 09	PCB clip / Front spacer	163 A 19449 X
15 / 15	PCB clip / Front spacer	163 A 19459 X
25 / 25	PCB clip / Front spacer	163 A 19469 X
37 / 37	PCB clip / Front spacer	163 A 19479 X

PCB layout: Kat1U6A

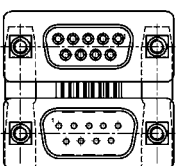


Variation:
socket upper –
socket bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	164 A 15609 X
15 / 15	Threaded insert	164 A 15619 X
25 / 25	Threaded insert	164 A 15629 X
37 / 37	Threaded insert	164 A 15639 X
09 / 09	Front spacer	164 A 15769 X
15 / 15	Front spacer	164 A 15779 X
25 / 25	Front spacer	164 A 15789 X
37 / 37	Front spacer	164 A 15799 X
09 / 09	PCB clip / Threaded insert	164 A 20409 X
15 / 15	PCB clip / Threaded insert	164 A 20419 X
25 / 25	PCB clip / Threaded insert	164 A 20429 X
37 / 37	PCB clip / Threaded insert	164 A 20439 X
09 / 09	PCB clip / Front spacer	164 A 19759 X
15 / 15	PCB clip / Front spacer	164 A 19769 X
25 / 25	PCB clip / Front spacer	164 A 19779 X
37 / 37	PCB clip / Front spacer	164 A 19789 X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	164 A 15689 X
15 / 15	Threaded insert	164 A 15699 X
25 / 25	Threaded insert	164 A 15709 X
37 / 37	Threaded insert	164 A 15719 X
09 / 09	Front spacer	164 A 15849 X
15 / 15	Front spacer	164 A 15859 X
25 / 25	Front spacer	164 A 15869 X
37 / 37	Front spacer	164 A 15879 X
09 / 09	PCB clip / Threaded insert	164 A 20489 X
15 / 15	PCB clip / Threaded insert	164 A 20499 X
25 / 25	PCB clip / Threaded insert	164 A 20509 X
37 / 37	PCB clip / Threaded insert	164 A 20519 X
09 / 09	PCB clip / Front spacer	164 A 19839 X
15 / 15	PCB clip / Front spacer	164 A 19849 X
25 / 25	PCB clip / Front spacer	164 A 19859 X
37 / 37	PCB clip / Front spacer	164 A 19869 X

PCB layout: Kat1U6A



Variation:
socket upper –
plug bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	164 A 15649 X
15 / 15	Threaded insert	164 A 15659 X
25 / 25	Threaded insert	164 A 15669 X
37 / 37	Threaded insert	164 A 15679 X
09 / 09	Front spacer	164 A 15809 X
15 / 15	Front spacer	164 A 15819 X
25 / 25	Front spacer	164 A 15829 X
37 / 37	Front spacer	164 A 15839 X
09 / 09	PCB clip / Threaded insert	164 A 20449 X
15 / 15	PCB clip / Threaded insert	164 A 20459 X
25 / 25	PCB clip / Threaded insert	164 A 20469 X
37 / 37	PCB clip / Threaded insert	164 A 20479 X
09 / 09	PCB clip / Front spacer	164 A 19799 X
15 / 15	PCB clip / Front spacer	164 A 19809 X
25 / 25	PCB clip / Front spacer	164 A 19819 X
37 / 37	PCB clip / Front spacer	164 A 19829 X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	164 A 15729 X
15 / 15	Threaded insert	164 A 15739 X
25 / 25	Threaded insert	164 A 15749 X
37 / 37	Threaded insert	164 A 15759 X
09 / 09	Front spacer	164 A 15889 X
15 / 15	Front spacer	164 A 15899 X
25 / 25	Front spacer	164 A 15909 X
37 / 37	Front spacer	164 A 15919 X
09 / 09	PCB clip / Threaded insert	164 A 20529 X
15 / 15	PCB clip / Threaded insert	164 A 20539 X
25 / 25	PCB clip / Threaded insert	164 A 20549 X
37 / 37	PCB clip / Threaded insert	164 A 20559 X
09 / 09	PCB clip / Front spacer	164 A 19879 X
15 / 15	PCB clip / Front spacer	164 A 19889 X
25 / 25	PCB clip / Front spacer	164 A 19899 X
37 / 37	PCB clip / Front spacer	164 A 19909 X

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

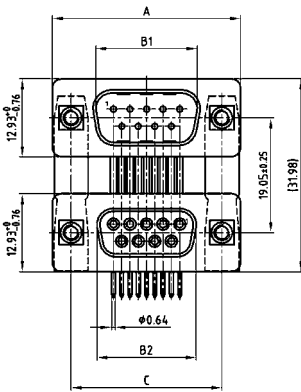
DESCRIPTION

- 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)

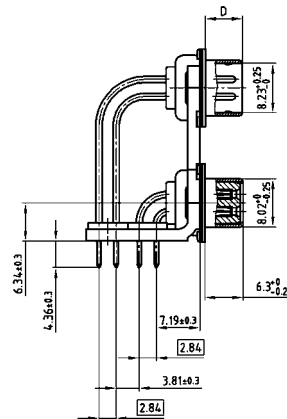
PRODUCT DRAWING

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

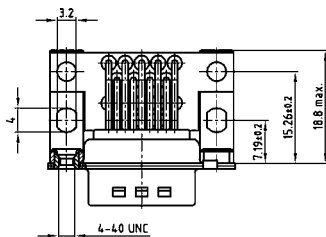
Graphically representation of only one variant!



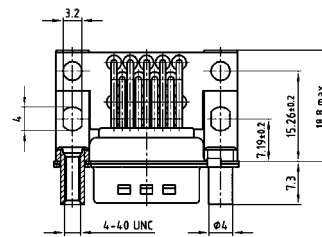
Mounting style: Threaded insert



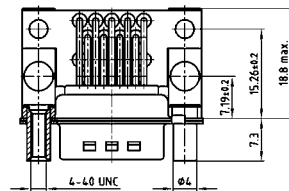
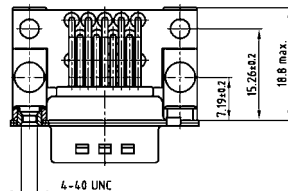
Mounting style: Front spacer



Mounting style: PCB clip, threaded insert



Mounting style: PCB clip, front spacer

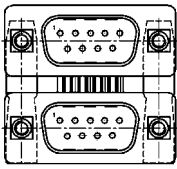


D-SUB STANDARD – DUAL PORT VARIATIONS

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

ORDER DATA

PCB layout: Kat1IU5A

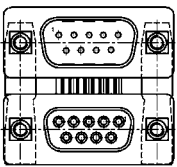


Variation:
plug upper –
plug bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	163 A 15519 X
15 / 15	Threaded insert	163 A 15529 X
25 / 25	Threaded insert	163 A 15539 X
37 / 37	Threaded insert	163 A 15549 X
09 / 09	Front spacer	163 A 15679 X
15 / 15	Front spacer	163 A 15689 X
25 / 25	Front spacer	163 A 15699 X
37 / 37	Front spacer	163 A 15709 X
09 / 09	PCB clip / Threaded insert	163 A 19489 X
15 / 15	PCB clip / Threaded insert	163 A 19499 X
25 / 25	PCB clip / Threaded insert	163 A 19509 X
37 / 37	PCB clip / Threaded insert	163 A 19519 X
09 / 09	PCB clip / Front spacer	163 A 19649 X
15 / 15	PCB clip / Front spacer	163 A 19659 X
25 / 25	PCB clip / Front spacer	163 A 19669 X
37 / 37	PCB clip / Front spacer	163 A 19679 X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	163 A 15599 X
15 / 15	Threaded insert	163 A 15609 X
25 / 25	Threaded insert	163 A 15619 X
37 / 37	Threaded insert	163 A 15629 X
09 / 09	Front spacer	163 A 15759 X
15 / 15	Front spacer	163 A 15769 X
25 / 25	Front spacer	163 A 15779 X
37 / 37	Front spacer	163 A 15789 X
09 / 09	PCB clip / Threaded insert	163 A 19569 X
15 / 15	PCB clip / Threaded insert	163 A 19579 X
25 / 25	PCB clip / Threaded insert	163 A 19589 X
37 / 37	PCB clip / Threaded insert	163 A 19599 X
09 / 09	PCB clip / Front spacer	163 A 19729 X
15 / 15	PCB clip / Front spacer	163 A 19739 X
25 / 25	PCB clip / Front spacer	163 A 19749 X
37 / 37	PCB clip / Front spacer	163 A 19759 X

PCB layout: Kat1IU6A

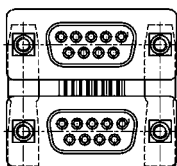


Variation:
plug upper –
socket bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	163 A 15559 X
15 / 15	Threaded insert	163 A 15569 X
25 / 25	Threaded insert	163 A 15579 X
37 / 37	Threaded insert	163 A 15589 X
09 / 09	Front spacer	163 A 15719 X
15 / 15	Front spacer	163 A 15729 X
25 / 25	Front spacer	163 A 15739 X
37 / 37	Front spacer	163 A 15749 X
09 / 09	PCB clip / Threaded insert	163 A 19529 X
15 / 15	PCB clip / Threaded insert	163 A 19539 X
25 / 25	PCB clip / Threaded insert	163 A 19549 X
37 / 37	PCB clip / Threaded insert	163 A 19559 X
09 / 09	PCB clip / Front spacer	163 A 19689 X
15 / 15	PCB clip / Front spacer	163 A 19699 X
25 / 25	PCB clip / Front spacer	163 A 19709 X
37 / 37	PCB clip / Front spacer	163 A 19719 X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	163 A 15639 X
15 / 15	Threaded insert	163 A 15649 X
25 / 25	Threaded insert	163 A 15659 X
37 / 37	Threaded insert	163 A 15669 X
09 / 09	Front spacer	163 A 15799 X
15 / 15	Front spacer	163 A 15809 X
25 / 25	Front spacer	163 A 15819 X
37 / 37	Front spacer	163 A 15829 X
09 / 09	PCB clip / Threaded insert	163 A 19609 X
15 / 15	PCB clip / Threaded insert	163 A 19619 X
25 / 25	PCB clip / Threaded insert	163 A 19629 X
37 / 37	PCB clip / Threaded insert	163 A 19639 X
09 / 09	PCB clip / Front spacer	163 A 19769 X
15 / 15	PCB clip / Front spacer	163 A 19779 X
25 / 25	PCB clip / Front spacer	163 A 19789 X
37 / 37	PCB clip / Front spacer	163 A 19799 X

PCB layout: Kat1IU6A

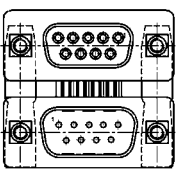


Variation:
socket upper –
socket bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	164 A 15929 X
15 / 15	Threaded insert	164 A 15939 X
25 / 25	Threaded insert	164 A 15949 X
37 / 37	Threaded insert	164 A 15959 X
09 / 09	Front spacer	164 A 16089 X
15 / 15	Front spacer	164 A 16099 X
25 / 25	Front spacer	164 A 16109 X
37 / 37	Front spacer	164 A 16119 X
09 / 09	PCB clip / Threaded insert	164 A 19919 X
15 / 15	PCB clip / Threaded insert	164 A 19929 X
25 / 25	PCB clip / Threaded insert	164 A 19939 X
37 / 37	PCB clip / Threaded insert	164 A 19949 X
09 / 09	PCB clip / Front spacer	164 A 20079 X
15 / 15	PCB clip / Front spacer	164 A 20089 X
25 / 25	PCB clip / Front spacer	164 A 20099 X
37 / 37	PCB clip / Front spacer	164 A 20109 X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	164 A 16009 X
15 / 15	Threaded insert	164 A 16019 X
25 / 25	Threaded insert	164 A 16029 X
37 / 37	Threaded insert	164 A 16039 X
09 / 09	Front spacer	164 A 16169 X
15 / 15	Front spacer	164 A 16179 X
25 / 25	Front spacer	164 A 16189 X
37 / 37	Front spacer	164 A 16199 X
09 / 09	PCB clip / Threaded insert	164 A 19999 X
15 / 15	PCB clip / Threaded insert	164 A 20009 X
25 / 25	PCB clip / Threaded insert	164 A 20019 X
37 / 37	PCB clip / Threaded insert	164 A 20029 X
09 / 09	PCB clip / Front spacer	164 A 20159 X
15 / 15	PCB clip / Front spacer	164 A 20169 X
25 / 25	PCB clip / Front spacer	164 A 20179 X
37 / 37	PCB clip / Front spacer	164 A 20189 X

PCB layout: Kat1IU5A



Variation:
socket upper –
plug bottom

No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	Threaded insert	164 A 15969 X
15 / 15	Threaded insert	164 A 15979 X
25 / 25	Threaded insert	164 A 15989 X
37 / 37	Threaded insert	164 A 15999 X
09 / 09	Front spacer	164 A 16129 X
15 / 15	Front spacer	164 A 16139 X
25 / 25	Front spacer	164 A 16149 X
37 / 37	Front spacer	164 A 16159 X
09 / 09	PCB clip / Threaded insert	164 A 19959 X
15 / 15	PCB clip / Threaded insert	164 A 19969 X
25 / 25	PCB clip / Threaded insert	164 A 19979 X
37 / 37	PCB clip / Threaded insert	164 A 19989 X
09 / 09	PCB clip / Front spacer	164 A 20119 X
15 / 15	PCB clip / Front spacer	164 A 20129 X
25 / 25	PCB clip / Front spacer	164 A 20139 X
37 / 37	PCB clip / Front spacer	164 A 20149 X

No. of pos.	Mounting style M3	Part Number
09 / 09	Threaded insert	164 A 16049 X
15 / 15	Threaded insert	164 A 16059 X
25 / 25	Threaded insert	164 A 16069 X
37 / 37	Threaded insert	164 A 16079 X
09 / 09	Front spacer	164 A 16209 X
15 / 15	Front spacer	164 A 16219 X
25 / 25	Front spacer	164 A 16229 X
37 / 37	Front spacer	164 A 16239 X
09 / 09	PCB clip / Threaded insert	164 A 20039 X
15 / 15	PCB clip / Threaded insert	164 A 20049 X
25 / 25	PCB clip / Threaded insert	164 A 20059 X
37 / 37	PCB clip / Threaded insert	164 A 20069 X
09 / 09	PCB clip / Front spacer	164 A 20199 X
15 / 15	PCB clip / Front spacer	164 A 20209 X
25 / 25	PCB clip / Front spacer	164 A 20219 X
37 / 37	PCB clip / Front spacer	164 A 20229 X

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 Connector spacing

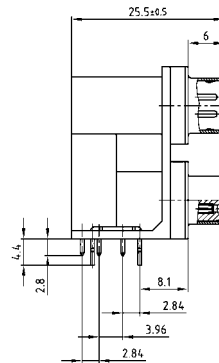
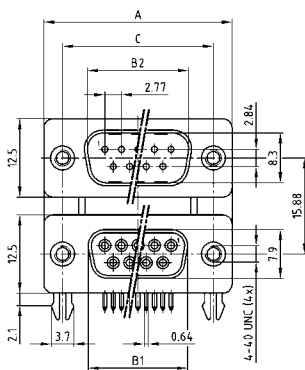


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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

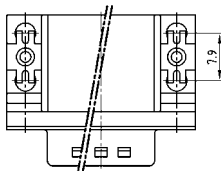
PRODUCT DRAWING



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

Graphically representation of only one variant!

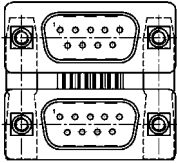
Mounting style: PCB clip, threaded insert



D-SUB STANDARD – DUAL PORT VARIATIONS

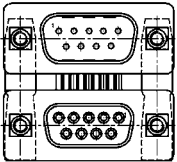
Solder pin – Angled – Stamped contacts – .625" / 15.88 mm Connector spacing

ORDER DATA



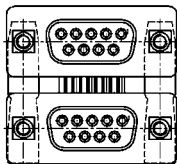
No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip/Threaded insert	DLS 1PP5AN21 X
15 / 15	PCB clip/Threaded insert	DLS 2PP5AN21 X
25 / 25	PCB clip/Threaded insert	DLS 3PP5AN21 X
37 / 37	PCB clip/Threaded insert	DLS 4PP5AN21 X

Variation:
plug upper –
plug bottom



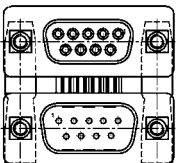
No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip/Threaded insert	DLS 1PS5AN21 X
15 / 15	PCB clip/Threaded insert	DLS 2PS5AN21 X
25 / 25	PCB clip/Threaded insert	DLS 3PS5AN21 X
37 / 37	PCB clip/Threaded insert	DLS 4PS5AN21 X

Variation:
plug upper –
socket bottom



No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip/Threaded insert	DLS 1SS5AN21 X
15 / 15	PCB clip/Threaded insert	DLS 2SS5AN21 X
25 / 25	PCB clip/Threaded insert	DLS 3SS5AN21 X
37 / 37	PCB clip/Threaded insert	DLS 4SS5AN21 X

Variation:
socket upper –
socket bottom



No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip/Threaded insert	DLS 1SP5AN21 X
15 / 15	PCB clip/Threaded insert	DLS 2SP5AN21 X
25 / 25	PCB clip/Threaded insert	DLS 3SP5AN21 X
37 / 37	PCB clip/Threaded insert	DLS 4SP5AN21 X

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

Variation:
socket upper –
plug bottom

D-SUB STANDARD – DUAL PORT

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

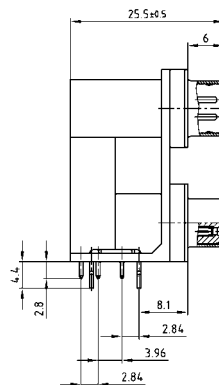
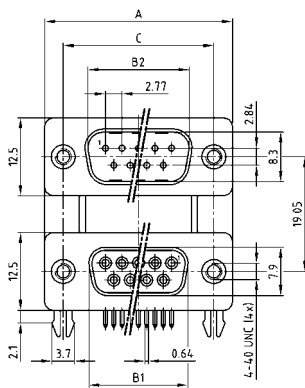


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

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

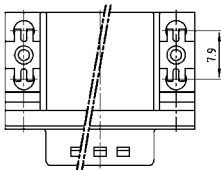
PRODUCT DRAWING



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

Graphically representation of only one variant!

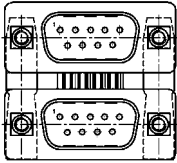
Mounting style: PCB clip, threaded insert



D-SUB STANDARD – DUAL PORT VARIATIONS

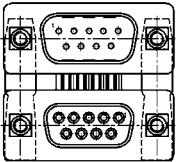
Solder pin – Angled – Stamped contacts – .750" / 19.05 mm Connector spacing

ORDER DATA



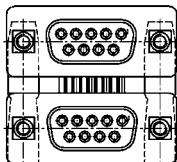
No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip/Threaded insert	DLS 1PP5AN23 X
15 / 15	PCB clip/Threaded insert	DLS 2PP5AN23 X
25 / 25	PCB clip/Threaded insert	DLS 3PP5AN23 X
37 / 37	PCB clip/Threaded insert	DLS 4PP5AN23 X

Variation:
plug upper –
plug bottom



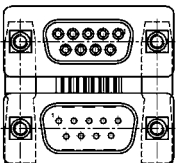
No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip/Threaded insert	DLS 1PS5AN23 X
15 / 15	PCB clip/Threaded insert	DLS 2PS5AN23 X
25 / 25	PCB clip/Threaded insert	DLS 3PS5AN23 X
37 / 37	PCB clip/Threaded insert	DLS 4PS5AN23 X

Variation:
plug upper –
socket bottom



No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip/Threaded insert	DLS 1SS5AN23 X
15 / 15	PCB clip/Threaded insert	DLS 2SS5AN23 X
25 / 25	PCB clip/Threaded insert	DLS 3SS5AN23 X
37 / 37	PCB clip/Threaded insert	DLS 4SS5AN23 X

Variation:
socket upper –
socket bottom



No. of pos.	Mounting style 4-40 UNC	Part Number
09 / 09	PCB clip/Threaded insert	DLS 1SP5AN23 X
15 / 15	PCB clip/Threaded insert	DLS 2SP5AN23 X
25 / 25	PCB clip/Threaded insert	DLS 3SP5AN23 X
37 / 37	PCB clip/Threaded insert	DLS 4SP5AN23 X

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

Variation:
socket upper –
plug bottom

D-SUB STANDARD

Interface adapter – Connector Saver

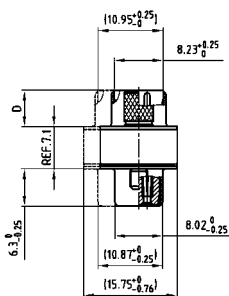
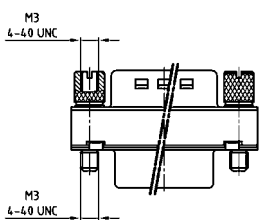
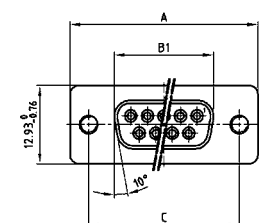


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

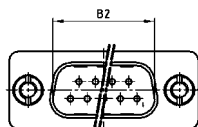
DESCRIPTION

- 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	163 A 50009 X
15	4-40 UNC Threaded lock	163 A 50019 X
25	4-40 UNC Threaded lock	163 A 50029 X
37	4-40 UNC Threaded lock	163 A 50039 X
50	4-40 UNC Threaded lock	163 A 50049 X
09	M3 Threaded lock	163 A 50059 X
15	M3 Threaded lock	163 A 50069 X
25	M3 Threaded lock	163 A 50079 X
37	M3 Threaded lock	163 A 50089 X
50	M3 Threaded lock	163 A 50099 X

D-SUB STANDARD

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



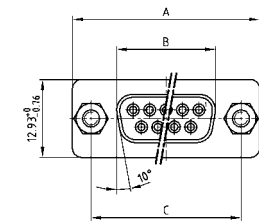
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

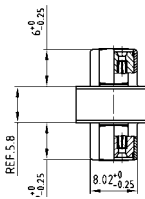
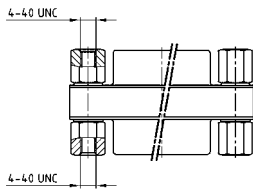
- Variation plug to plug and socket to socket
- Stamped contacts
- 4-40 UNC threaded lock
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

PRODUCT DRAWING

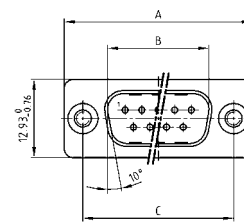
Variation socket to socket



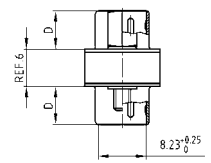
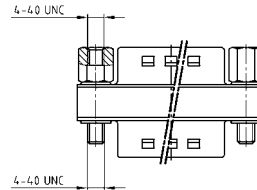
No. of pos.	A -0.76	B -0.25	C
09	31.19	16.46	25.00 ± 0.12
15	39.52	24.79	33.30 ^{+0.15} / _{-0.10}
25	53.42	38.50	47.04 ± 0.13
37	69.70	54.96	63.50 ± 0.13



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



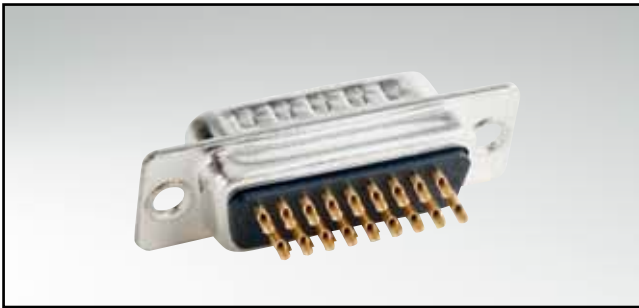
ORDER DATA

SOCKET CONNECTOR – SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded lock	320X 12519 X
15	Threaded lock	320X 12539 X
25	Threaded lock	320X 10559 X
37	Threaded lock	320X 12559 X

PLUG CONNECTOR – PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded lock	320X 12509 X
15	Threaded lock	320X 12529 X
25	Threaded lock	320X 10549 X
37	Threaded lock	320X 12549 X

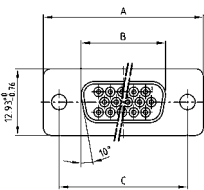
D-SUB HIGH DENSITY

Solder cup – Stamped contacts – For wire size AWG 22



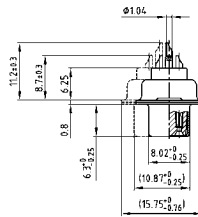
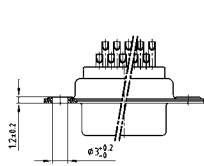
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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

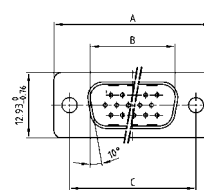


78 pos. = Dim. in (_)

DESCRIPTION

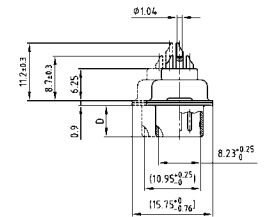
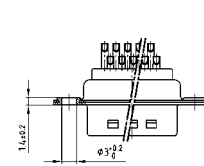
- Suitable for wire size **AWG 22**
- Mounting style:
with through-hole Ø .118" / 3 mm
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

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 (_)

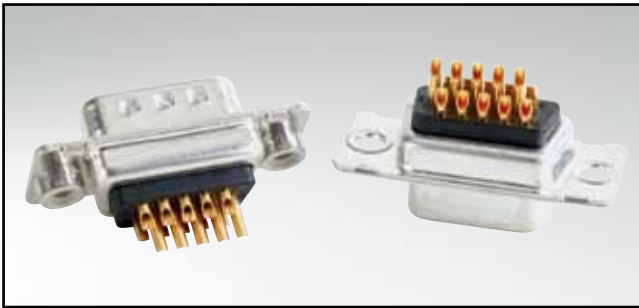
ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Through-hole	302 A 10129 X
26	Through-hole	302 A 10139 X
44	Through-hole	302 A 10149 X
62	Through-hole	302 A 10159 X
78	Through-hole	302 A 11329 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Through-hole	301 A 10129 X
26	Through-hole	301 A 10139 X
44	Through-hole	301 A 10149 X
62	Through-hole	301 A 10159 X
78	Through-hole	301 A 11019 X

D-SUB HIGH DENSITY

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

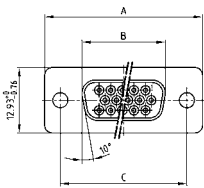


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

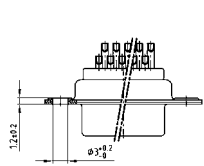
- Suitable for wire size **AWG 22**
- Mounting styles:
 - with through-hole, Ø .118" / 3 mm
 - with 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

SOCKET CONNECTOR

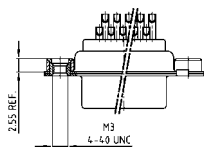


No. of pos.	A -0.76	B -0.25	C
15	31.19	16.46	25.00 +0.12
26	39.52	24.79	33.30 +0.15 / -0.10
44	53.42	38.50	47.04 +0.13
62	69.70	54.96	63.50 +0.13
78	67.31	52.55	61.10 +0.14 / -0.11

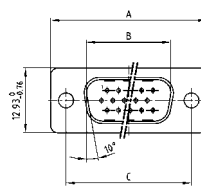
Mounting style: Through-hole



Mounting style: Threaded insert

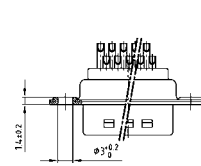


PLUG CONNECTOR

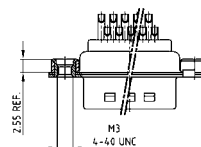


No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 +0.12	6.12
26	39.52	25.12	33.30 +0.15 / -0.10	6.12
44	53.42	38.84	47.04 +0.13	5.99
62	69.70	55.30	63.50 +0.13	5.99
78	67.31	52.68	61.10 +0.14 / -0.11	5.99

Mounting style: Through-hole



Mounting style: Threaded insert



78 pos. = Dim. in (_)

78 pos. = Dim. in (_)

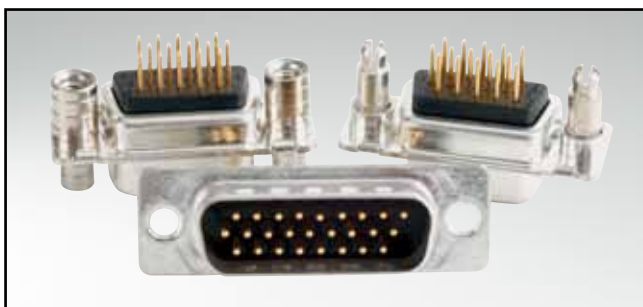
ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Through-hole	164 A 17009 X
26	Through-hole	164 A 17019 X
44	Through-hole	164 A 17029 X
62	Through-hole	164 A 17039 X
78	Through-hole	164 A 17049 X
15	4-40 UNC Threaded insert	164 A 17059 X
26	4-40 UNC Threaded insert	164 A 17069 X
44	4-40 UNC Threaded insert	164 A 17079 X
62	4-40 UNC Threaded insert	164 A 17089 X
78	4-40 UNC Threaded insert	164 A 17099 X
15	M3 Threaded insert	164 A 17109 X
26	M3 Threaded insert	164 A 17119 X
42	M3 Threaded insert	164 A 17129 X
62	M3 Threaded insert	164 A 17139 X
78	M3 Threaded insert	164 A 17149 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Through-hole	163 A 16599 X
26	Through-hole	163 A 16609 X
44	Through-hole	163 A 16619 X
62	Through-hole	163 A 16629 X
78	Through-hole	163 A 16639 X
15	4-40 UNC Threaded insert	163 A 16649 X
26	4-40 UNC Threaded insert	163 A 16659 X
44	4-40 UNC Threaded insert	163 A 16669 X
62	4-40 UNC Threaded insert	163 A 16679 X
78	4-40 UNC Threaded insert	163 A 16689 X
15	M3 Threaded insert	163 A 16699 X
26	M3 Threaded insert	163 A 16709 X
44	M3 Threaded insert	163 A 16719 X
62	M3 Threaded insert	163 A 16729 X
78	M3 Threaded insert	163 A 16739 X

D-SUB HIGH DENSITY

Solder pin – Straight – Precision machined contacts

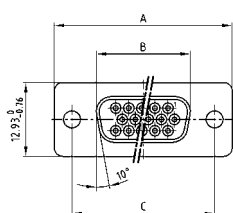


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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)

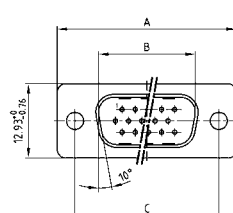
SOCKET CONNECTOR



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}

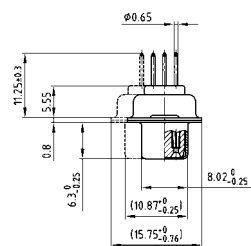
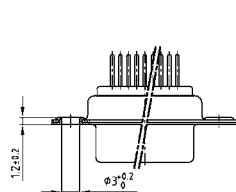
PCB layout: Kat1iT9A

PLUG CONNECTOR

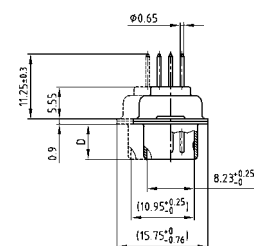
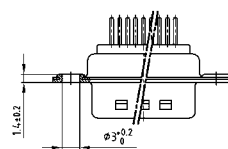


No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 ^{+0.12}	6.12
26	39.52	25.12	33.30 ^{+0.15} _{-0.10}	6.12
44	53.42	38.84	47.04 ^{+0.13}	5.99
62	69.70	55.30	63.50 ^{+0.13}	5.99
78	67.31	52.68	61.10 ^{+0.14} _{-0.11}	5.99

PCB layout: Kat1iU0A

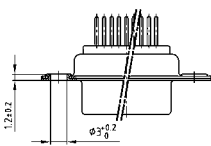


78 pos. = Dim. in (_ _)



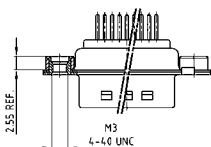
78 pos. = Dim. in (_ _)

ORDER DATA



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Through-hole	164 A 17159 X
26	Through-hole	164 A 17169 X
44	Through-hole	164 A 17179 X
62	Through-hole	164 A 17189 X
78	Through-hole	164 A 17199 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Through-hole	163 A 16749 X
26	Through-hole	163 A 16759 X
44	Through-hole	163 A 16769 X
62	Through-hole	163 A 16779 X
78	Through-hole	163 A 16789 X



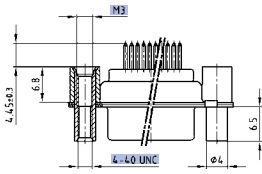
SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Threaded insert	164 A 17209 X
26	4-40 UNC Threaded insert	164 A 17219 X
44	4-40 UNC Threaded insert	164 A 17229 X
62	4-40 UNC Threaded insert	164 A 17239 X
78	4-40 UNC Threaded insert	164 A 17249 X
15	M3 Threaded insert	164 A 17259 X
26	M3 Threaded insert	164 A 17269 X
44	M3 Threaded insert	164 A 17279 X
62	M3 Threaded insert	164 A 17289 X
78	M3 Threaded insert	164 A 17299 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Threaded insert	163 A 16799 X
26	4-40 UNC Threaded insert	163 A 16809 X
44	4-40 UNC Threaded insert	163 A 16819 X
62	4-40 UNC Threaded insert	163 A 16829 X
78	4-40 UNC Threaded insert	163 A 16839 X
15	M3 Threaded insert	163 A 16849 X
26	M3 Threaded insert	163 A 16859 X
44	M3 Threaded insert	163 A 16869 X
62	M3 Threaded insert	163 A 16879 X
78	M3 Threaded insert	163 A 16889 X

D-SUB HIGH DENSITY – MOUNTING STYLES

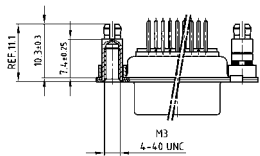
Solder pin – Straight – Precision machined contacts

ORDER DATA



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Front/M3 Threaded rear spacer	164 A 17309 X
26	4-40 UNC Front/M3 Threaded rear spacer	164 A 17319 X
44	4-40 UNC Front/M3 Threaded rear spacer	164 A 17329 X
62	4-40 UNC Front/M3 Threaded rear spacer	164 A 17339 X
78	4-40 UNC Front/M3 Threaded rear spacer	164 A 17349 X

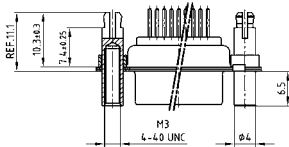
PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Front/M3 Threaded rear spacer	163 A 16899 X
26	4-40 UNC Front/M3 Threaded rear spacer	163 A 16909 X
44	4-40 UNC Front/M3 Threaded rear spacer	163 A 16919 X
62	4-40 UNC Front/M3 Threaded rear spacer	163 A 16929 X
78	4-40 UNC Front/M3 Threaded rear spacer	163 A 16939 X



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Threaded rear spacer PCB clip	164 A 17359 X
26	4-40 UNC Threaded rear spacer PCB clip	164 A 17369 X
44	4-40 UNC Threaded rear spacer PCB clip	164 A 17379 X
62	4-40 UNC Threaded rear spacer PCB clip	164 A 17389 X
78	4-40 UNC Threaded rear spacer PCB clip	164 A 17399 X
15	M3 Threaded rear spacer PCB clip	164 A 17409 X
26	M3 Threaded rear spacer PCB clip	164 A 17419 X
44	M3 Threaded rear spacer PCB clip	164 A 17429 X
62	M3 Threaded rear spacer PCB clip	164 A 17439 X
78	M3 Threaded rear spacer PCB clip	164 A 17449 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Threaded rear spacer PCB clip	163 A 16949 X
26	4-40 UNC Threaded rear spacer PCB clip	163 A 16959 X
44	4-40 UNC Threaded rear spacer PCB clip	163 A 16969 X
62	4-40 UNC Threaded rear spacer PCB clip	163 A 16979 X
78	4-40 UNC Threaded rear spacer PCB clip	163 A 16989 X
15	M3 Threaded rear spacer PCB clip	163 A 16999 X
26	M3 Threaded rear spacer PCB clip	163 A 17009 X
44	M3 Threaded rear spacer PCB clip	163 A 17019 X
62	M3 Threaded rear spacer PCB clip	163 A 17029 X
78	M3 Threaded rear spacer PCB clip	163 A 17039 X

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	164 A 17459 X
26	4-40 UNC Front/Threaded rear spacer PCB clip	164 A 17469 X
44	4-40 UNC Front/Threaded rear spacer PCB clip	164 A 17479 X
62	4-40 UNC Front/Threaded rear spacer PCB clip	164 A 17489 X
78	4-40 UNC Front/Threaded rear spacer PCB clip	164 A 17499 X
15	M3 Front/Threaded rear spacer PCB clip	164 A 17509 X
26	M3 Front/Threaded rear spacer PCB clip	164 A 17519 X
44	M3 Front/Threaded rear spacer PCB clip	164 A 17529 X
62	M3 Front/Threaded rear spacer PCB clip	164 A 17539 X
78	M3 Front/Threaded rear spacer PCB clip	164 A 17549 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Front/Threaded rear spacer PCB clip	163 A 17049 X
26	4-40 UNC Front/Threaded rear spacer PCB clip	163 A 17059 X
44	4-40 UNC Front/Threaded rear spacer PCB clip	163 A 17069 X
62	4-40 UNC Front/Threaded rear spacer PCB clip	163 A 17079 X
78	4-40 UNC Front/Threaded rear spacer PCB clip	163 A 17089 X
15	M3 Front/Threaded rear spacer PCB clip	163 A 17099 X
26	M3 Front/Threaded rear spacer PCB clip	163 A 17109 X
44	M3 Front/Threaded rear spacer PCB clip	163 A 17119 X
62	M3 Front/Threaded rear spacer PCB clip	163 A 17129 X
78	M3 Front/Threaded rear spacer PCB clip	163 A 17139 X

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

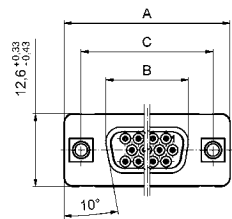
D-SUB HIGH DENSITY

Press-fit contact – Straight – Precision machined contacts



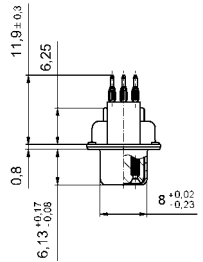
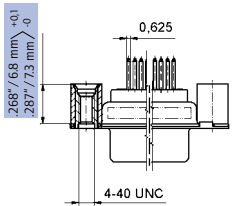
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

SOCKET CONNECTOR

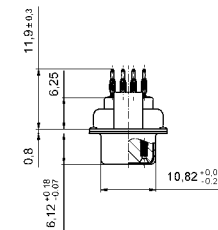
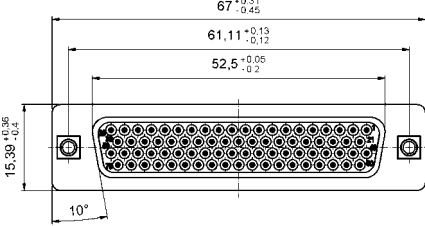


No. of pos.	A	B	C
15	30.88 ^{+0.31} _{-0.45}	16.41 ^{+0.05} _{-0.20}	24.99 ^{+0.13} _{-0.12}
26	39.22 ^{+0.30} _{-0.46}	24.74 ^{+0.05} _{-0.20}	33.32 ^{+0.13} _{-0.12}
44	53.09 ^{+0.33} _{-0.43}	38.51 ⁺⁰ _{-0.26}	47.04 ^{+0.13} _{-0.12}
62	69.50 ^{+0.20} _{-0.56}	54.94 ^{+0.05} _{-0.23}	63.50 ^{+0.13}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

15-62 pos.



78 pos.



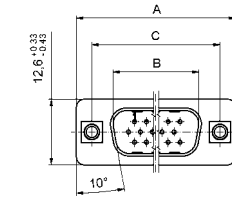
ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC thread	Part Number
15	Threaded rear spacer .268" / 6.8 mm	DSH 1XSGAA48 X
26	Threaded rear spacer .268" / 6.8 mm	DSH 2XSGAA48 X
44	Threaded rear spacer .268" / 6.8 mm	DSH 3XSGAA48 X
62	Threaded rear spacer .268" / 6.8 mm	DSH 4XSGAA48 X
78	Threaded rear spacer .268" / 6.8 mm	DSH 5XSGAA48 X
15	Threaded rear spacer .287" / 7.3 mm	DSH 1XSHAA49 X
26	Threaded rear spacer .287" / 7.3 mm	DSH 2XSHAA49 X
44	Threaded rear spacer .287" / 7.3 mm	DSH 3XSHAA49 X
62	Threaded rear spacer .287" / 7.3 mm	DSH 4XSHAA49 X
78	Threaded rear spacer .287" / 7.3 mm	DSH 5XSHAA49 X

DESCRIPTION

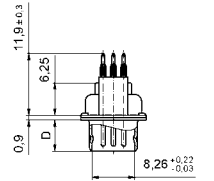
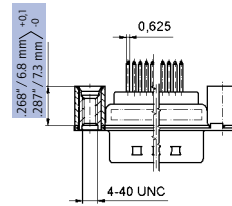
- Mounting styles:
 - with .268" / 6.8 mm threaded rear spacer and 4-40 UNC
 - with .287" / 7.3 mm threaded rear spacer and 4-40 UNC
- For .040" / 1.0 mm ^{+0.003"/0.09 mm} / _{-.002"/0.06 mm} finished through-hole diameter
Refer to product drawing for details
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

PLUG CONNECTOR

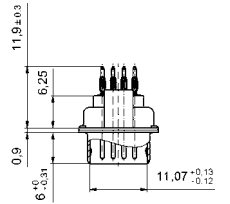
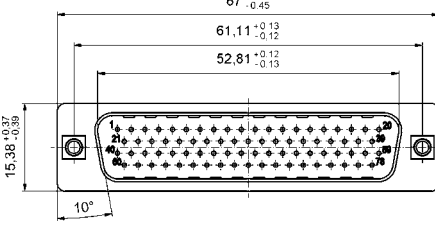


No. of pos.	A	B	C	C
15	30.88 ^{+0.31} _{-0.45}	16.41 ^{+0.05} _{-0.20}	24.99 ^{+0.13} _{-0.12}	6.00 ^{+0.12} _{-0.18}
26	39.22 ^{+0.30} _{-0.46}	24.74 ^{+0.05} _{-0.20}	33.32 ^{+0.13} _{-0.12}	6.00 ^{+0.12} _{-0.18}
44	53.09 ^{+0.33} _{-0.43}	38.51 ⁺⁰ _{-0.26}	47.04 ^{+0.13} _{-0.12}	6.00 ^{+0.13} _{-0.30}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

15-62 pos.



78 pos.



PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC thread	Part Number
15	Threaded rear spacer .268" / 6.8 mm	DSH 1XPGAA48 X
26	Threaded rear spacer .268" / 6.8 mm	DSH 2XPGAA48 X
44	Threaded rear spacer .268" / 6.8 mm	DSH 3XPGAA48 X
62	Threaded rear spacer .268" / 6.8 mm	DSH 4XPGAA48 X
78	Threaded rear spacer .268" / 6.8 mm	DSH 5XPGAA48 X
15	Threaded rear spacer .287" / 7.3 mm	DSH 1XPHAA49 X
26	Threaded rear spacer .287" / 7.3 mm	DSH 2XPHAA49 X
44	Threaded rear spacer .287" / 7.3 mm	DSH 3XPHAA49 X
62	Threaded rear spacer .287" / 7.3 mm	DSH 4XPHAA49 X
78	Threaded rear spacer .287" / 7.3 mm	DSH 5XPHAA49 X

D-SUB HIGH DENSITY

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

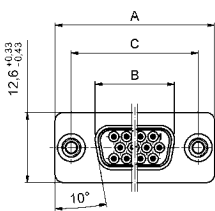


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

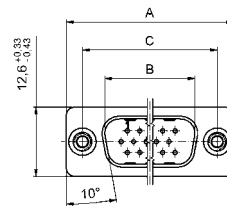
- Mounting styles:
 - with .268" / 6.8 mm rear press-fit spacer and 4-40 UNC
 - with .287" / 7.3 mm rear press-fit spacer and 4-40 UNC
- For .040" / 1.0 mm ^{+0.003"/0.09mm} / ^{.002"/0.06mm} finished through-hole diameter
Refer to product drawing for details
- Quality class 3 (also available in quality class 1)
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

SOCKET CONNECTOR



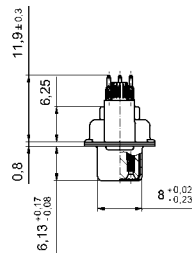
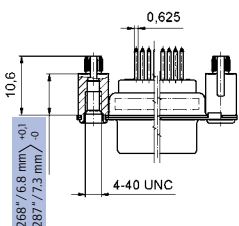
No. of pos.	A	B	C
15	30.88 ^{+0.31} / _{-0.45}	16.41 ^{+0.05} / _{-0.20}	24.99 ^{+0.13} / _{-0.12}
26	39.22 ^{+0.30} / _{-0.46}	24.74 ^{+0.05} / _{-0.20}	33.32 ^{+0.13} / _{-0.12}
44	53.09 ^{+0.33} / _{-0.43}	38.51 ⁺⁰ / _{-0.26}	47.04 ^{+0.13} / _{-0.12}
62	69.50 ^{+0.20} / _{-0.56}	54.94 ^{+0.05} /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

PLUG CONNECTOR

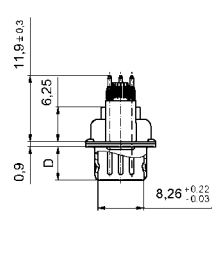
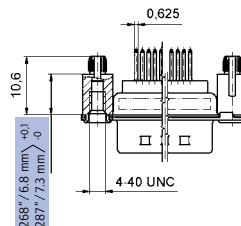


No. of pos.	A	B	C	C
15	30.88 ^{+0.31} / _{-0.45}	16.41 ^{+0.05} / _{-0.20}	24.99 ^{+0.13} / _{-0.12}	6.00 ^{+0.12} / _{-0.18}
26	39.22 ^{+0.30} / _{-0.46}	24.74 ^{+0.05} / _{-0.20}	33.32 ^{+0.13} / _{-0.12}	6.00 ^{+0.12} / _{-0.18}
44	53.09 ^{+0.33} / _{-0.43}	38.51 ⁺⁰ / _{-0.26}	47.04 ^{+0.13} / _{-0.12}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

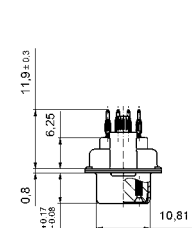
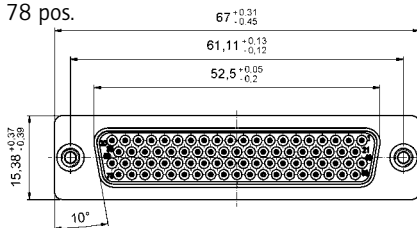
15-62 pos.



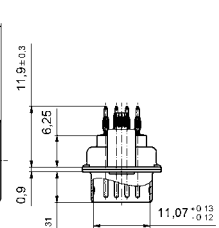
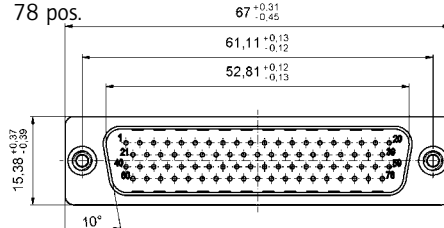
15-62 pos.



78 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	DSH 1XSGAA58 X
26	Rear press-fit spacer .268" / 6.8 mm	DSH 2XSGAA58 X
44	Rear press-fit spacer .268" / 6.8 mm	DSH 3XSGAA58 X
62	Rear press-fit spacer .268" / 6.8 mm	DSH 4XSGAA58 X
78	Rear press-fit spacer .268" / 6.8 mm	DSH 5XSGAA58 X
15	Rear press-fit spacer .287" / 7.3 mm	DSH 1XSHAA54 X
26	Rear press-fit spacer .287" / 7.3 mm	DSH 2XSHAA54 X
44	Rear press-fit spacer .287" / 7.3 mm	DSH 3XSHAA54 X
62	Rear press-fit spacer .287" / 7.3 mm	DSH 4XSHAA54 X
78	Rear press-fit spacer .287" / 7.3 mm	DSH 5XSHAA54 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC thread	Part Number
15	Rear press-fit spacer .268" / 6.8 mm	DSH 1XPGAA58 X
26	Rear press-fit spacer .268" / 6.8 mm	DSH 2XPGAA58 X
44	Rear press-fit spacer .268" / 6.8 mm	DSH 3XPGAA58 X
62	Rear press-fit spacer .268" / 6.8 mm	DSH 4XPGAA58 X
78	Rear press-fit spacer .268" / 6.8 mm	DSH 5XPGAA58 X
15	Rear press-fit spacer .287" / 7.3 mm	DSH 1XPHAA54 X
26	Rear press-fit spacer .287" / 7.3 mm	DSH 2XPHAA54 X
44	Rear press-fit spacer .287" / 7.3 mm	DSH 3XPHAA54 X
62	Rear press-fit spacer .287" / 7.3 mm	DSH 4XPHAA54 X
78	Rear press-fit spacer .287" / 7.3 mm	DSH 5XPHAA54 X

D-SUB HIGH DENSITY

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

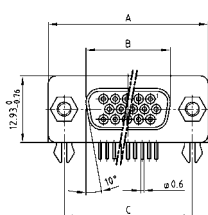


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

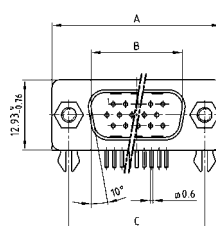
- Mounting styles:
 - with mounting bracket, PCB clip and 4-40 UNC hex bolt
 - with mounting bracket, PCB clip and 4-40 UNC threaded insert
- Quality class 3 (other quality classes on request)
- Shell: Steel tin plated

SOCKET CONNECTOR

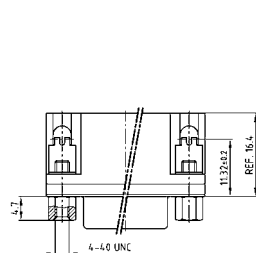


No. of pos.	A -0.76	B +0.25	C
15	31.19	16.46	25.00 +0.12
26	39.52	24.79	33.30 +0.15 -0.10
44	53.42	38.50	47.04 +0.13
62	69.70	54.96	63.50 +0.13
78	67.31	52.55	61.10 +0.14 -0.11

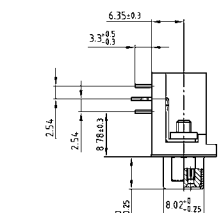
PLUG CONNECTOR



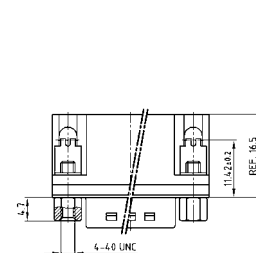
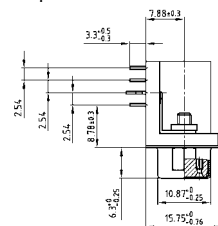
No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 +0.12	6.12
26	39.52	25.12	33.30 +0.15 -0.10	6.12
44	53.42	38.84	47.04 +0.13	5.99
62	69.70	55.30	63.50 +0.13	5.99
78	67.31	52.68	61.10 +0.14 -0.11	5.99



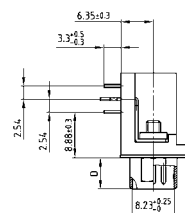
15-62 pos.



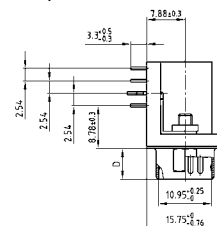
78 pos.



15-62 pos.



78 pos.



ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
15	PCB clip / Hex bolt	302 A 10869 X
26	PCB clip / Hex bolt	302 A 10879 X
44	PCB clip / Hex bolt	302 A 10889 X
62	PCB clip / Hex bolt	302 A 10899 X
78	PCB clip / Hex bolt	302 A 11629 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
15	PCB clip / Hex bolt	301 A 10869 X
26	PCB clip / Hex bolt	301 A 10879 X
44	PCB clip / Hex bolt	301 A 10889 X
62	PCB clip / Hex bolt	301 A 10899 X
78	PCB clip / Hex bolt	301 A 11369 X

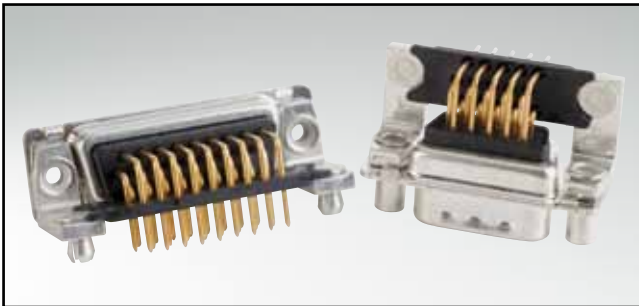
SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
15	PCB clip / Threaded insert	DLH 1XS 8 K53 X
26	PCB clip / Threaded insert	DLH 2XS 8 K53 X
44	PCB clip / Threaded insert	DLH 3XS 8 K53 X
62	PCB clip / Threaded insert	DLH 4XS 8 K53 X
78	PCB clip / Threaded insert	DLH 5XS 8 K53 X

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
15	PCB clip / Threaded insert	DLH 1XP 8 K53 X
26	PCB clip / Threaded insert	DLH 2XP 8 K53 X
44	PCB clip / Threaded insert	DLH 3XP 8 K53 X
62	PCB clip / Threaded insert	DLH 4XP 8 K53 X
78	PCB clip / Threaded insert	DLH 5XP 8 K53 X

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 – Precision machined contacts – Metal bracket

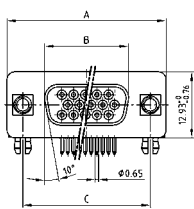


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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)

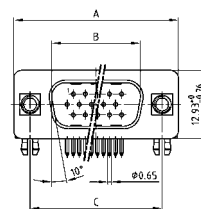
SOCKET CONNECTOR



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

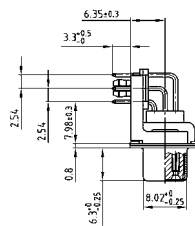
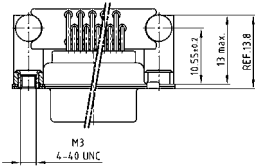


No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 -0.12	6.12
26	39.52	25.12	33.30 +0.15 -0.10	6.12
44	53.42	38.84	47.04 +0.13	5.99
62	69.70	55.30	63.50 +0.13	5.99
78	67.31	52.68	61.10 -0.14 -0.11	5.99

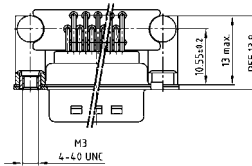
PCB layout: Kat1iU2A

15-62 pos.

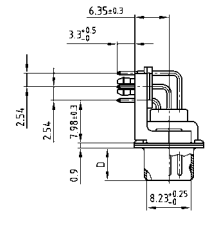
Mounting style: PCB clip, threaded insert



Mounting style: PCB clip, threaded insert

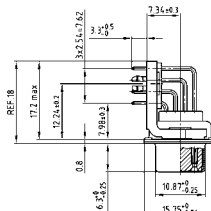
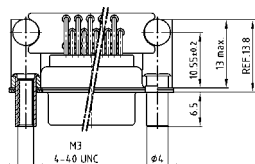


15-62 pos.

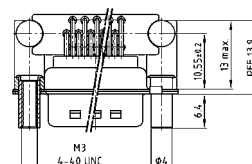


78 pos.

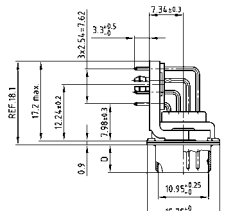
Mounting style: PCB clip, front spacer



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	164 A 18179 X
26	PCB clip / 4-40 UNC Threaded insert	164 A 18189 X
44	PCB clip / 4-40 UNC Threaded insert	164 A 18199 X
62	PCB clip / 4-40 UNC Threaded insert	164 A 18209 X
78	PCB clip / 4-40 UNC Threaded insert	164 A 18629 X
15	PCB clip / M3 Threaded insert	164 A 18219 X
26	PCB clip / M3 Threaded insert	164 A 18229 X
44	PCB clip / M3 Threaded insert	164 A 18239 X
62	PCB clip / M3 Threaded insert	164 A 18249 X
78	PCB clip / M3 Threaded insert	164 A 18639 X
15	PCB clip / 4-40 UNC Front spacer	164 A 18259 X
26	PCB clip / 4-40 UNC Front spacer	164 A 18269 X
44	PCB clip / 4-40 UNC Front spacer	164 A 18279 X
62	PCB clip / 4-40 UNC Front spacer	164 A 18289 X
78	PCB clip / 4-40 UNC Front spacer	164 A 18649 X
15	PCB clip / M3 Front spacer	164 A 18299 X
26	PCB clip / M3 Front spacer	164 A 18309 X
44	PCB clip / M3 Front spacer	164 A 18319 X
62	PCB clip / M3 Front spacer	164 A 18329 X
78	PCB clip / M3 Front spacer	164 A 18659 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	PCB clip / 4-40 UNC Threaded insert	163 A 17769 X
26	PCB clip / 4-40 UNC Threaded insert	163 A 17779 X
44	PCB clip / 4-40 UNC Threaded insert	163 A 17789 X
62	PCB clip / 4-40 UNC Threaded insert	163 A 17799 X
78	PCB clip / 4-40 UNC Threaded insert	163 A 18219 X
15	PCB clip / M3 Threaded insert	163 A 17809 X
26	PCB clip / M3 Threaded insert	163 A 17819 X
44	PCB clip / M3 Threaded insert	163 A 17829 X
62	PCB clip / M3 Threaded insert	163 A 17839 X
78	PCB clip / M3 Threaded insert	163 A 18229 X
15	PCB clip / 4-40 UNC Front spacer	163 A 17849 X
26	PCB clip / 4-40 UNC Front spacer	163 A 17859 X
44	PCB clip / 4-40 UNC Front spacer	163 A 17869 X
62	PCB clip / 4-40 UNC Front spacer	163 A 17879 X
78	PCB clip / 4-40 UNC Front spacer	163 A 18239 X
15	PCB clip / M3 Front spacer	163 A 17889 X
26	PCB clip / M3 Front spacer	163 A 17899 X
44	PCB clip / M3 Front spacer	163 A 17909 X
62	PCB clip / M3 Front spacer	163 A 17919 X
78	PCB clip / M3 Front spacer	163 A 18249 X

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 – Precision machined contacts – Plastic bracket

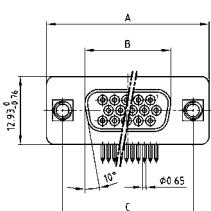


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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)

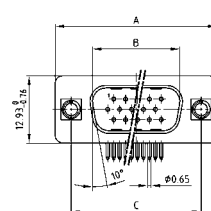
SOCKET CONNECTOR



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

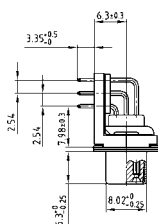
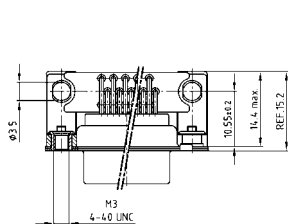
PLUG CONNECTOR



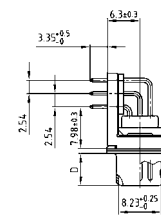
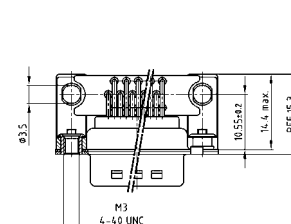
No. of pos.	A -0.76	B +0.25	C	D -0.3
15	31.19	16.79	25.00 -0.12	6.12
26	39.52	25.12	33.30 ^{+0.15} / _{-0.10}	6.12
44	53.42	38.84	47.04 ±0.13	5.99
62	69.70	55.30	63.50 ±0.13	5.99

PCB layout: Kat1iU2A

Mounting style: Grounding strap, threaded insert



Mounting style: Grounding strap, threaded insert



ORDER DATA

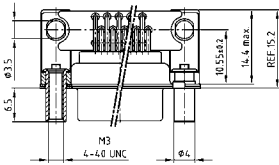
SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Grounding strap / 4-40 UNC Threaded insert	164 A 18019 X
26	Grounding strap / 4-40 UNC Threaded insert	164 A 18029 X
44	Grounding strap / 4-40 UNC Threaded insert	164 A 18039 X
62	Grounding strap / 4-40 UNC Threaded insert	164 A 18049 X
15	Grounding strap / M3 Threaded insert	164 A 18059 X
26	Grounding strap / M3 Threaded insert	164 A 18069 X
44	Grounding strap / M3 Threaded insert	164 A 18079 X
62	Grounding strap / M3 Threaded insert	164 A 18089 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Grounding strap / 4-40 UNC Threaded insert	163 A 17609 X
26	Grounding strap / 4-40 UNC Threaded insert	163 A 17619 X
44	Grounding strap / 4-40 UNC Threaded insert	163 A 17629 X
62	Grounding strap / 4-40 UNC Threaded insert	163 A 17639 X
15	Grounding strap / M3 Threaded insert	163 A 17649 X
26	Grounding strap / M3 Threaded insert	163 A 17659 X
44	Grounding strap / M3 Threaded insert	163 A 17669 X
62	Grounding strap / M3 Threaded insert	163 A 17679 X

D-SUB HIGH DENSITY – MOUNTING STYLES

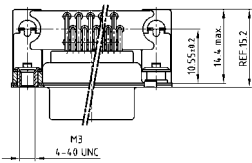
Solder pin – Angled – .350" / 7.98 mm – Precision machined contacts – Plastic bracket

ORDER DATA



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Grounding strap / 4-40 UNC Front spacer	164 A 18099 X
26	Grounding strap / 4-40 UNC Front spacer	164 A 18109 X
44	Grounding strap / 4-40 UNC Front spacer	164 A 18119 X
62	Grounding strap / 4-40 UNC Front spacer	164 A 18129 X
15	Grounding strap / M3 Front spacer	164 A 18139 X
26	Grounding strap / M3 Front spacer	164 A 18149 X
44	Grounding strap / M3 Front spacer	164 A 18159 X
62	Grounding strap / M3 Front spacer	164 A 18169 X

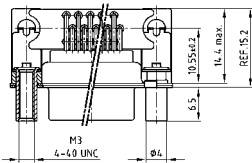
PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Grounding strap / 4-40 UNC Front spacer	163 A 17689 X
26	Grounding strap / 4-40 UNC Front spacer	163 A 17699 X
44	Grounding strap / 4-40 UNC Front spacer	163 A 17709 X
62	Grounding strap / 4-40 UNC Front spacer	163 A 17719 X
15	Grounding strap / M3 Front spacer	163 A 17729 X
26	Grounding strap / M3 Front spacer	163 A 17739 X
44	Grounding strap / M3 Front spacer	163 A 17749 X
62	Grounding strap / M3 Front spacer	163 A 17759 X



SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	PCB clip / 4-40 UNC Threaded insert	164 A 20929 X
26	PCB clip / 4-40 UNC Threaded insert	164 A 20939 X
44	PCB clip / 4-40 UNC Threaded insert	164 A 20949 X
62	PCB clip / 4-40 UNC Threaded insert	164 A 20959 X
15	PCB clip / M3 Threaded insert	164 A 20969 X
26	PCB clip / M3 Threaded insert	164 A 20979 X
44	PCB clip / M3 Threaded insert	164 A 20989 X
62	PCB clip / M3 Threaded insert	164 A 20999 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	PCB clip / 4-40 UNC Threaded insert	163 A 20489 X
26	PCB clip / 4-40 UNC Threaded insert	163 A 20499 X
44	PCB clip / 4-40 UNC Threaded insert	163 A 20509 X
62	PCB clip / 4-40 UNC Threaded insert	163 A 20519 X
15	PCB clip / M3 Threaded insert	163 A 20529 X
26	PCB clip / M3 Threaded insert	163 A 20539 X
44	PCB clip / M3 Threaded insert	163 A 20549 X
62	PCB clip / M3 Threaded insert	163 A 20559 X

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	164 A 21009 X
26	PCB clip / 4-40 UNC Front spacer	164 A 21019 X
44	PCB clip / 4-40 UNC Front spacer	164 A 21029 X
62	PCB clip / 4-40 UNC Front spacer	164 A 21039 X
15	PCB clip / M3 Front spacer	164 A 21049 X
26	PCB clip / M3 Front spacer	164 A 21059 X
44	PCB clip / M3 Front spacer	164 A 21069 X
62	PCB clip / M3 Front spacer	164 A 21079 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	PCB clip / 4-40 UNC Front spacer	163 A 20569 X
26	PCB clip / 4-40 UNC Front spacer	163 A 20579 X
44	PCB clip / 4-40 UNC Front spacer	163 A 20589 X
62	PCB clip / 4-40 UNC Front spacer	163 A 20599 X
15	PCB clip / M3 Front spacer	163 A 20609 X
26	PCB clip / M3 Front spacer	163 A 20619 X
44	PCB clip / M3 Front spacer	163 A 20629 X
62	PCB clip / M3 Front spacer	163 A 20639 X

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

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

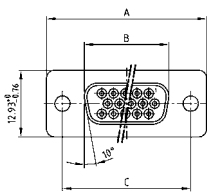


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

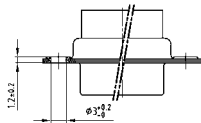
- For wire size **AWG 22** precision machined contacts
- Mounting style: with through-hole \varnothing .118" / 3 mm
- Shell: Steel tin plated (brass tin plated or stainless steel available on request)

SOCKET CONNECTOR

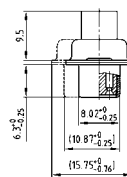


No. of pos.	A -0.76	B -0.25	C
15	31.19	16.46	25.00 $+0.12$
26	39.52	24.79	33.30 $+0.15$ -0.10
44	53.42	38.50	47.04 $+0.13$
62	69.70	54.96	63.50 $+0.13$
78	67.31	52.55	61.10 $+0.14$ -0.11

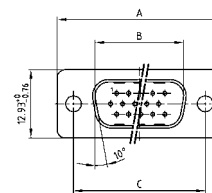
Mounting style: Through-hole



78 pos. = Dim. in (_)

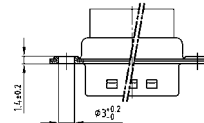


PLUG CONNECTOR

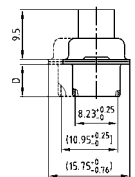


No. of pos.	A -0.76	B -0.25	C	D -0.3
15	31.19	16.79	25.00 $+0.12$	6.12
26	39.52	25.12	33.30 $+0.15$ -0.10	6.12
44	53.42	38.84	47.04 $+0.13$	5.99
62	69.70	55.30	63.50 $+0.13$	5.99
78	67.31	52.68	61.10 $+0.14$ -0.11	5.99

Mounting style: Through-hole



78 pos. = Dim. in (_)



ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Through-hole	164X 11949 X
26	Through-hole	164X 11959 X
44	Through-hole	164X 11969 X
62	Through-hole	164X 11979 X
78	Through-hole	164X 11989 X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	Through-hole	163X 10169 X
26	Through-hole	163X 10179 X
44	Through-hole	163X 10189 X
62	Through-hole	163X 10199 X
78	Through-hole	163X 10209 X

D-SUB HIGH DENSITY

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



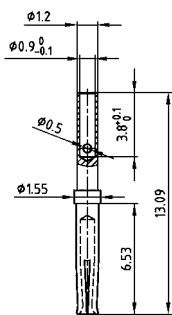
RoHS compliant – CSA listed, File No.:LR115001 –UL listed, File No.:E202784

DESCRIPTION

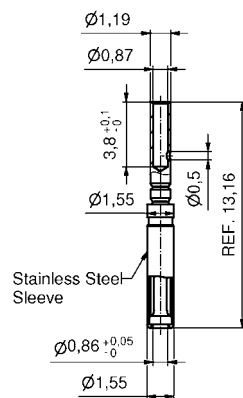
- For wire size **AWG 22**
- Loose contacts, in poly bag (500 pieces)
- Quality class 3 (also available in quality class 1)

FEMALE CONTACT

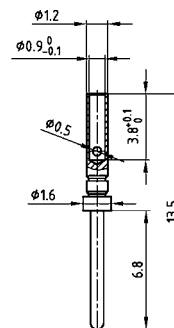
Standard version



Closed entry version



MALE CONTACT



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	162 A 18419 X
AWG 22 / Loose contact closed entry version	16-000693

MALE CONTACTS	
Contact type	Part Number
AWG 22 / Loose contact	161 A 18009 X

D-SUB HIGH DENSITY

Interface adapter – Connector Saver

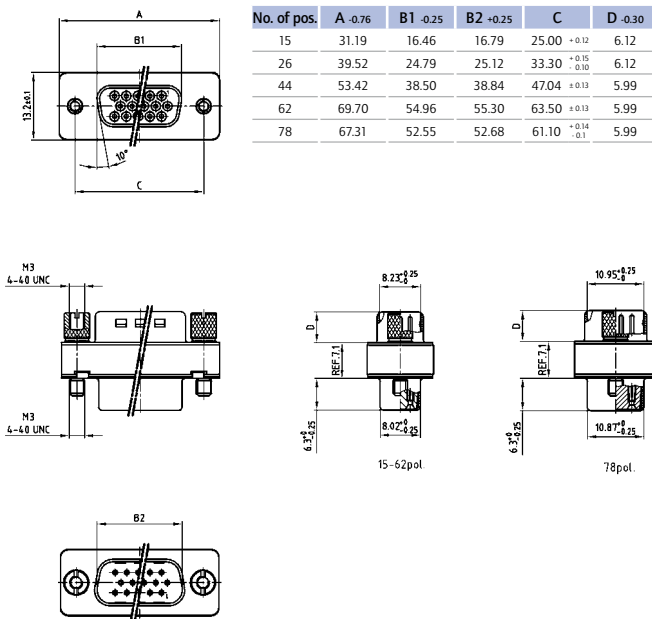


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

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



ORDER DATA

PLUG CONNECTOR – SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	4-40 UNC Threaded lock	164 A 03399 X
26	4-40 UNC Threaded lock	164 A 03919 X
44	4-40 UNC Threaded lock	164 A 03929 X
62	4-40 UNC Threaded lock	164 A 03939 X
78	4-40 UNC Threaded lock	DAH 5XAAAR04X
15	M3 Threaded lock	164 A 03949 X
26	M3 Threaded lock	164 A 03959 X
44	M3 Threaded lock	164 A 03969 X
62	M3 Threaded lock	164 A 03979 X
78	M3 Threaded lock	DAH 5XAAAR03X

Standard D-Sub Connectors

