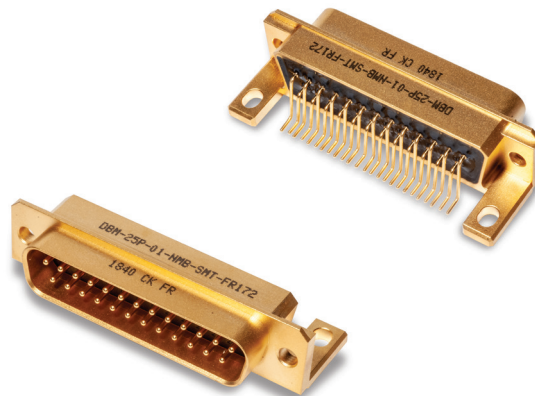


Features and Benefits

- According to ESA/ESCC specifications
- Starclip female contacts technology
- Surface mount termination
- Non-Outgassing
- Lightweight connectors

Typical Applications

- Space equipment
- Satellites payloads
- Avionics / Military



Specification

- High performance D-Sub connectors according to ESA specification, for space applications.
- Compatible with ESCC 3401/001 and 3401/002 D-Sub Connectors, 3401/020 Savers and 3401/022 Accessories.
- Suitable for use in Space, and high performance military/aerospace applications: Board to Board or Board to Cable applications.
- Starclip female contact technology.
- E, A, B and C Standard Density sizes available

Electrical & Mechanical Characteristics

CHARACTERISTIC	SPECIFICATION
Working Voltage (sea level)	300 Vrms
Rated Current AWG 26	7.5 A
Contact Resistance	5 mΩ (rated current)
Insulation Resistance	5000 MΩ min
Voltage Proof	1250 Vrms /2.0mA (leakage current)
Temperature range	-55/+125 °C

TYPE	MATING FORCE (N MAX)	UNMATING FORCE (N MIN)	WEIGHT MAX(G)
Size E	30	3.5	9
Size A	50	4.5	12
Size B	83	8	16
Size C	123	11	21

Quality Level

- Compliant to CS FR053 C&K specification.
- According to ESA/ESCC code 3401.

Process to use it

- Manual soldering process.
- Hand Soldering temperature max.: 3s at 350°C.

Options

- Possibility to customize the connector to be in line with your demand (Example: Sealing ring cavity, bracket, thread...).
- Get closer to your representative for custom design request.

Packaging

- Individual packaging.
- Traceability associated as per ESA/ESCC specifications.
- Each D-Sub connector is sold and delivered with a antistatic dust cap in individual plastic bag.

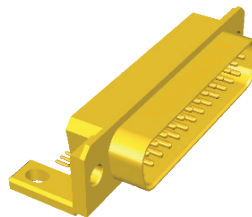
HOW TO ORDER

CONNECTOR

Our easy build-a-connector concept allows you to mix and match options to create the D-Sub connector you need. To order, select desired option from each category and place it in the appropriate box.



Pin connection with Nickel Plating



Pin connection with Gold Plating

	D	B	M	-	25	P	-	01	-	NMB	-	SMT	-	FR172
Series														
Shell Size														
Insert type: M														
Number of contacts														
Type of contact														

Shell Finish:
A174 25.4 µm Ni
FR172 0.7 µm Au over 25.4 µm Ni

Surface Mount Termination
SMT

Magnetism Level
NMB: ≤ 200 Gamma

Variant 01
01

Number of contacts
9 (size E)
15 (size A)
25 (size B)
37 (size C)

Type of contact
P Pin (Male)
S Socket (Female)

MATERIALS & FINISHES

COMPONENT	MATERIAL	FINISH
Shell	Aluminium alloy	A174: 25.4 µm electroless Nickel over Copper underlay
		FR172: 0.70 µm Gold over 25.4 µm electroless Nickel
Insulator	Liquid Crystal Polymer	UL 94-V0, Glass-filled, Black Color
Female Contacts	Housing: Copper Alloy	1.27 µm Gold over Copper underlay
	Clips: Beryllium Copper Alloy	1.27 µm Gold over Nickel underlay
Male Contacts	Copper Alloy	1.27 µm Gold over Copper underlay
Encapsulant	Epoxy	
Dust Cap	Polyethylene	Black color, antistatic.

Technical drawing of a connector assembly. The drawing shows a top view of a component with a central row of 14 pins, numbered 1 through 14. The pins are arranged in two groups of 7, with a central gap. The overall width of the component is 33.32. The distance from the center of the connector to the center of the left circular feature is 4.1. The distance from the center of the connector to the center of the right circular feature is 11.5. The diameter of the right circular feature is $\varnothing 3.1 \pm 0.05$. The distance from the center of the connector to the left edge of the pin array is 0.8 $\pm 0.05/0$ (15x). The distance from the center of the connector to the right edge of the pin array is 1.38 (14x). The distance from the center of the connector to the bottom edge of the pin array is 9.6. The reference is the front flange of the connector.

A-A

2.60 ± 0.1

2.56 ± 0.1

1.2 ± 0.1

2.50 ± 0.1

B-B

30.73 ± 0.1

13.64 ± 0.1

7.33 ± 0.1

5.7 ± 0.1

12.5 ± 0.05

12.5 ± 0.05

25.00 ± 0.1

0.05 ± 0.1

11.53 ± 0.1

15.36 ± 0.1

6.17 ± 0.1

1 ± 0.1

0.05 ± 0.15

2.5 ± 0.3

10.6 ± 0.2

Ø3.09 ± 0.1

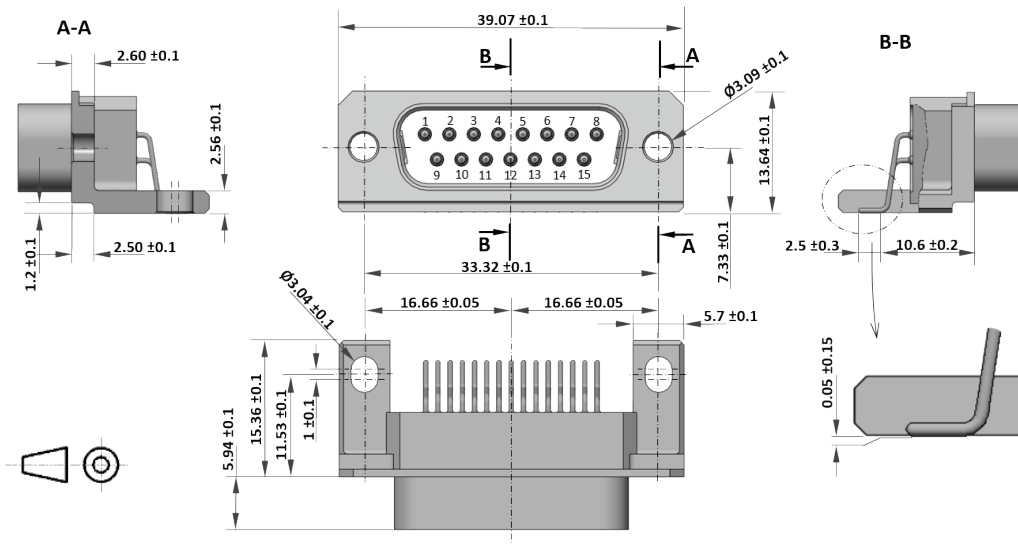
Ø3.04 ± 0.1

12

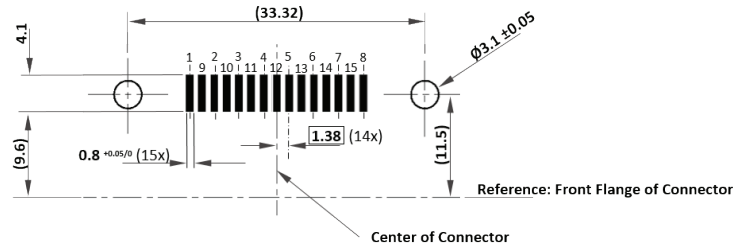
Figure 1 is a dimensional drawing of the connector. It shows a side view with the following dimensions and features:

- Total width: 33.32
- Pin pitch: 3.1 $\pm$ 0.05
- Pin height: 1.38 (14x)
- Pin diameter: 0.8 $\pm$ 0.05/16 (15x)
- Total height: 11.5
- Distance from front flange to center of connector: 9.6
- Center of Connector: Indicated by a dashed line.
- Reference: Front Flange of Connector

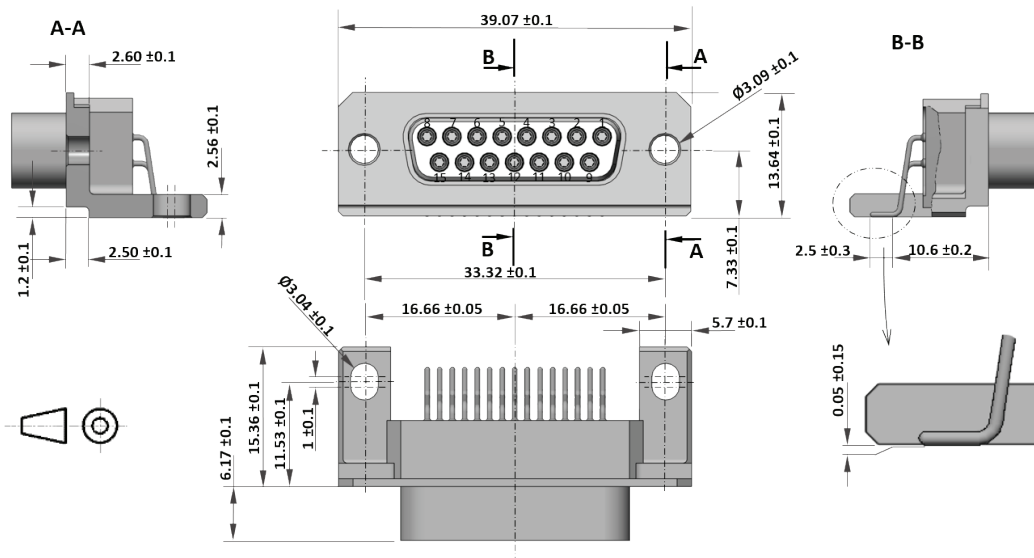
CONNECTOR AND LAYOUT DIMENSIONS - SIZE A - 15 PIN CONTACTS



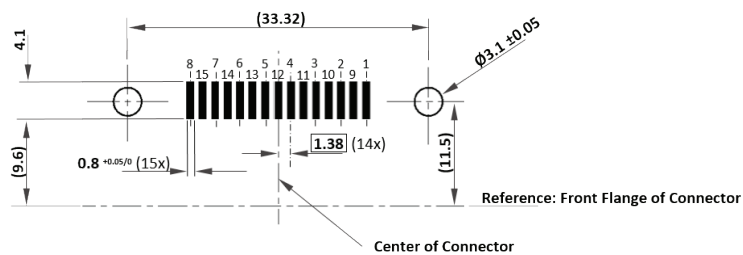
Recommended PC Board Layout:



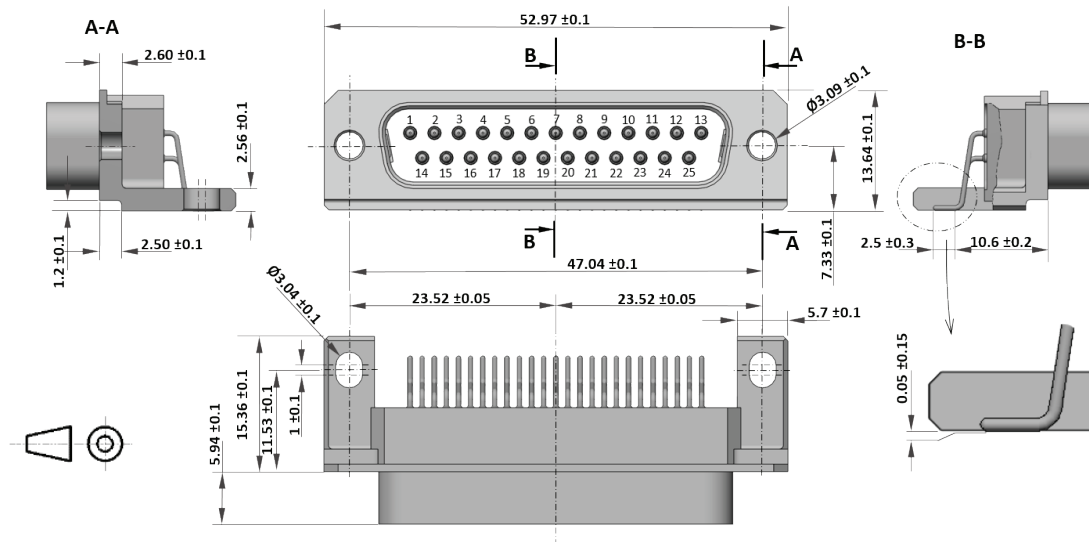
CONNECTOR AND LAYOUT DIMENSIONS - SIZE A - 15 SOCKET CONTACTS



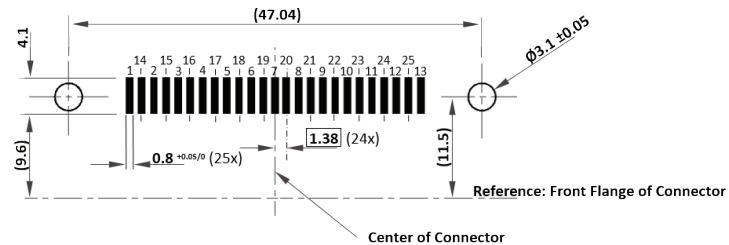
Recommended PC Board Layout:



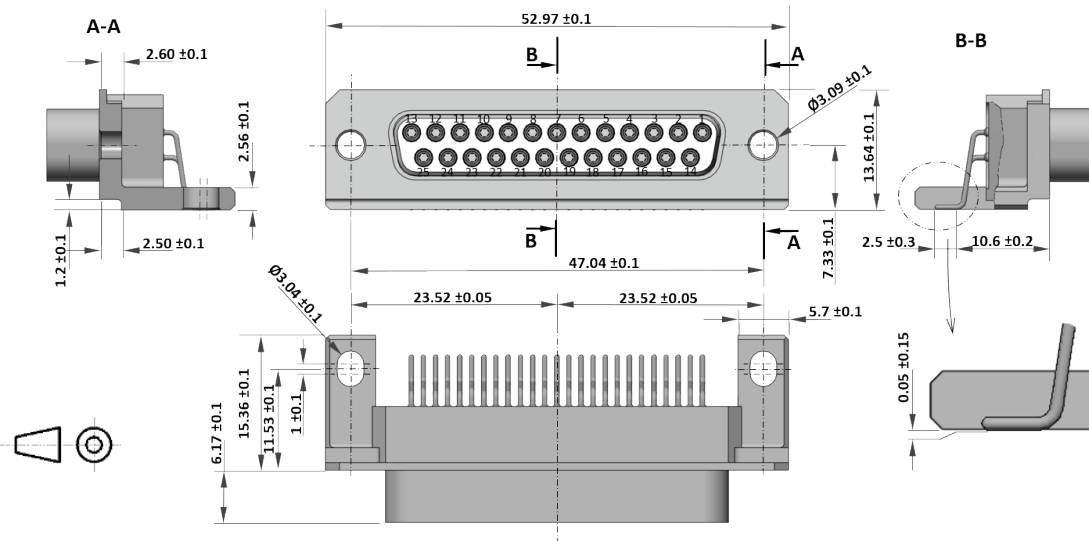
CONNECTOR AND LAYOUT DIMENSIONS - SIZE B - 25 PIN CONTACTS



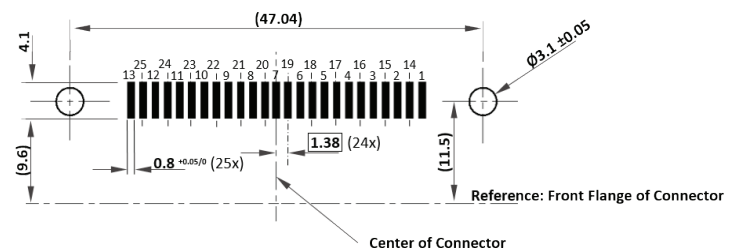
Recommended PC Board Layout:



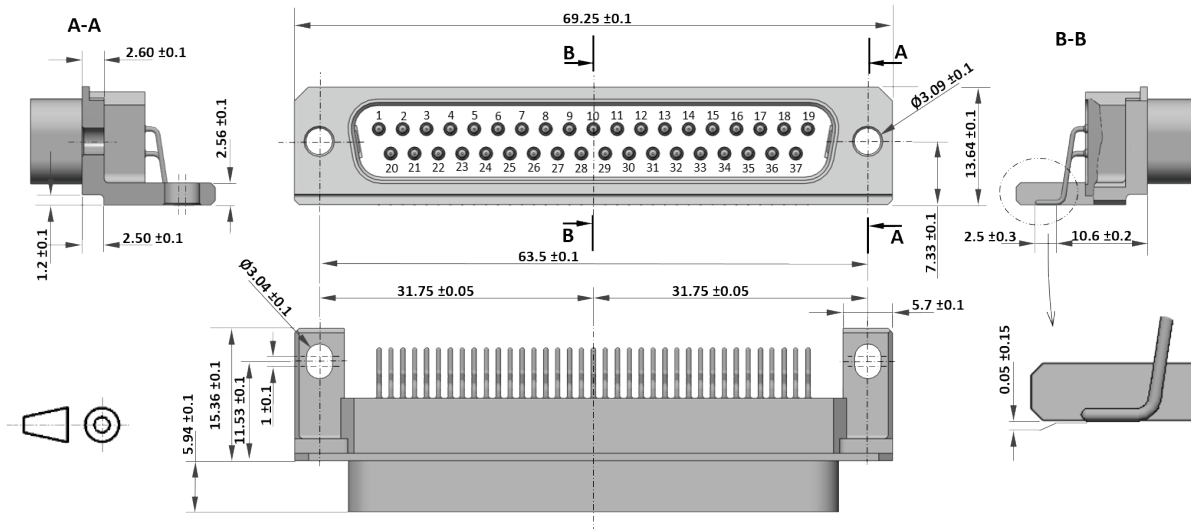
CONNECTOR AND LAYOUT DIMENSIONS - SIZE B - 25 SOCKET CONTACTS



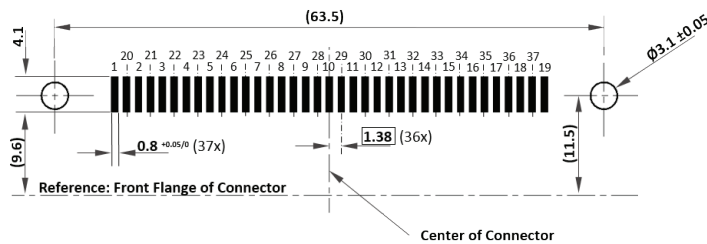
Recommended PC Board Layout:



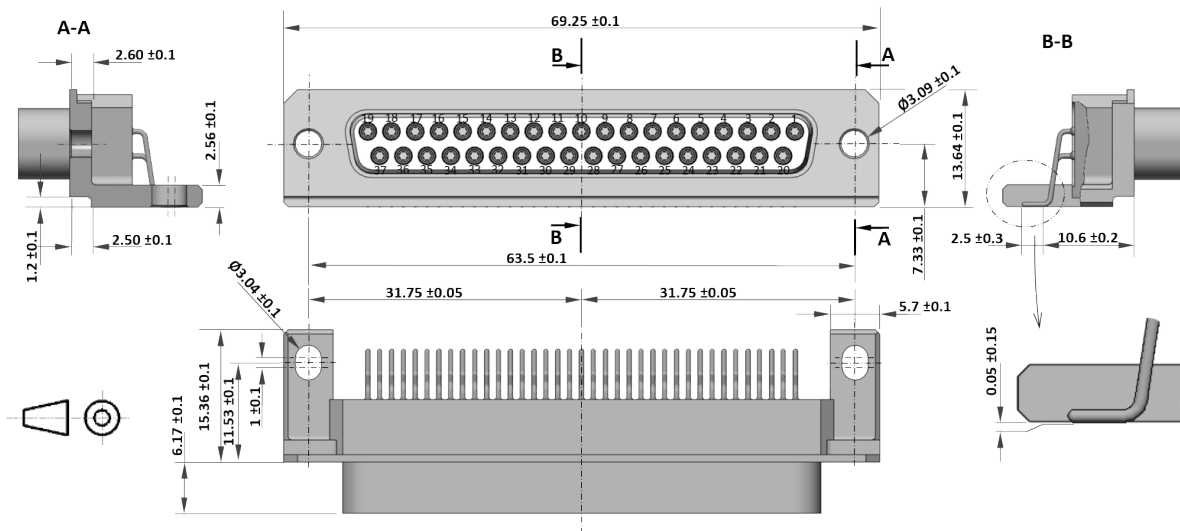
CONNECTOR AND LAYOUT DIMENSIONS - SIZE C - 37 PIN CONTACTS



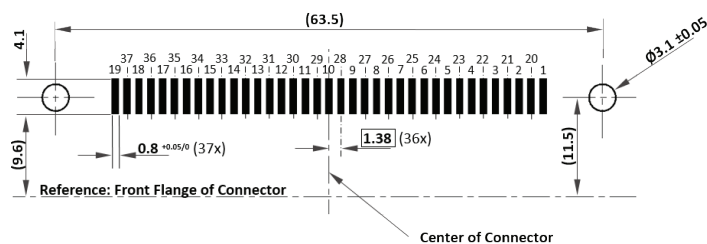
Recommended PC Board Layout:



CONNECTOR AND LAYOUT DIMENSIONS - SIZE C - 37 SOCKET CONTACTS



Recommended PC Board Layout:

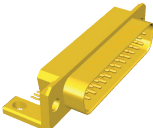


ACCESSORY

FEMALE SCREWLOCK	ESA/ESCC DESCRIPTION	C&K P/N
 2 part numbers per connector	340102201B	C115418-0052C

For the complete range of accessories and details, consult our D-Sub accessories datasheet.

CONNECTORS DESCRIPTION AND C&K PART NUMBERS

SHELL FINISH	CONTACT TYPE	CONNECTOR SIZE	C&K DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	Pin	E	DEM-9P-01-NMB-SMT-A174	C115366-2891C
		A	DAM-15P-01-NMB-SMT-A174	C115366-2893C
		B	DBM-25P-01-NMB-SMT-A174	C115366-2895C
		C	DCM-37P-01-NMB-SMT-A174	C115366-2897C
	Socket	E	DEM-9S-01-NMB-SMT-A174	C115366-2899C
		A	DAM-15S-01-NMB-SMT-A174	C115366-2901C
		B	DBM-25S-01-NMB-SMT-A174	C115366-2903C
		C	DCM-37S-01-NMB-SMT-A174	C115366-2905C
 Gold	Pin	E	DEM-9P-01-NMB-SMT-FR172	C115366-2890C
		A	DAM-15P-01-NMB-SMT-FR172	C115366-2892C
		B	DBM-25P-01-NMB-SMT-FR172	C115366-2894C
		C	DCM-37P-01-NMB-SMT-FR172	C115366-2896C
	Socket	E	DEM-9S-01-NMB-SMT-FR172	C115366-2898C
		A	DAM-15S-01-NMB-SMT-FR172	C115366-2900C
		B	DBM-25S-01-NMB-SMT-FR172	C115366-2902C
		C	DCM-37S-01-NMB-SMT-FR172	C115366-2904C

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C&K Aerospace:

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<u>C115371-6852</u>	<u>C115371-6853</u>	<u>C115371-4421</u>	<u>C115371-5332</u>	<u>C115371-6963</u>	<u>C115371-3026</u>	<u>C115371-3320</u>
<u>C115371-6450</u>	<u>C115371-6660</u>	<u>C115371-6850</u>	<u>C115371-6851</u>	<u>C115371-6855</u>	<u>C115371-4433</u>	<u>C115371-4665</u>
<u>C115371-4668</u>	<u>C115371-4669</u>	<u>C115371-4911</u>	<u>C115371-5610</u>			