

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC UL94V0

-CONTACT MATERIAL: PHOSPHOR BRONZE( SIGNAL CONTACT )

BRASS (POWERS CONTACT)

-ACCESSORIES: BRASS

-SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 7.5A (SIGNAL CONTACT)

30A (POWER CONTACT)

-CONTACT RESISTANCE: <=7.3 m Ohms(SIGNAL and POWER)

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

- CLIMATIC CATEGORY: 55/125/21

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 21 DAYS

SALT SPRAY 24 HOURS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m Maximum

- Female screw : 0.5 N.m Maximum

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-47-0004.
- The housing will withstand exposure to 260°C peak temperature for 3.5 seconds in a wave solder application with a 1.6mm minimum thick circuit board. See application notes/procedures if they are available.
- Termination plating spec:
  - Signal contacts: Ni + Gold/GxT
  - Power contacts: Ni 1.27µmi+Sn 2.5 to 7.5µ,pure bright
- Active area plating spec:
  - Signal and power contacts: Ni + Gold/GxT
- Shell plating :2 to 4µm Cu + Ni + 3 to 10µmm Sn,pure bright
- Accessories: Sn pure bright + Nickel
- Packaging spec: See GS-14-920

Series

DBL13W3S700G30LF

Shell size: **A B C**  
see sheet 3

Front accessory definition  
see sheet 2

**blank** :without accessory  
**L** :threaded insert M3  
**O** :threaded insert UNC 4-40  
**V** :female screw UNC 4-40

Layout of contacts (see sheets)

Contacts

**S** :Socket

Termination type

**7** Right angle/USA

Plating

**00** 200 matings/unmatings  
**43** 500 matings/unmatings

PCB accessories definition  
see sheet 2

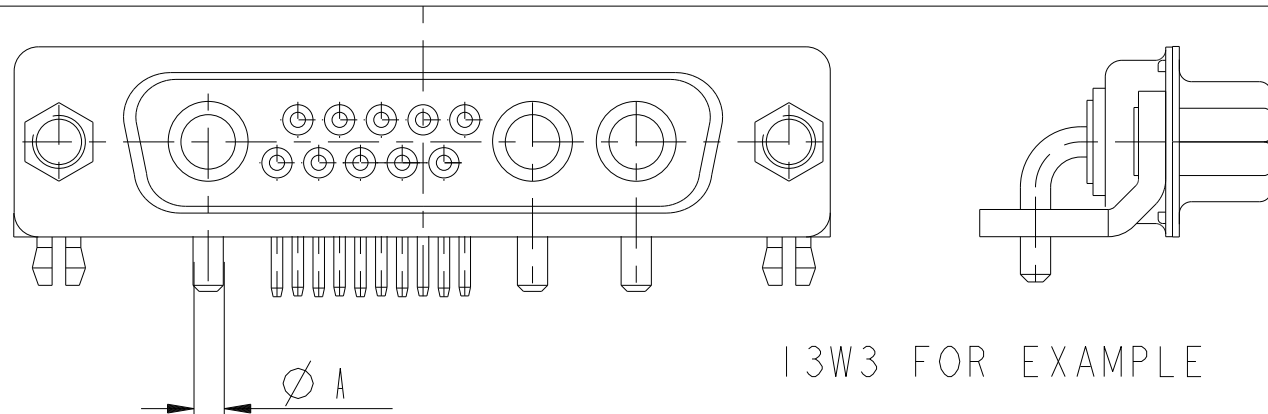
**A** :without accessory  
**H** :Metal brackets+harpoons for PCB 2.40mm  
**G** :Metal brackets+harpoons for PCB 1.60mm  
**M** :Metal brackets

Power contacts

**00** :Not fitted with power contact (signal contacts always fitted)  
**30** :Fitted with power contacts 30 Amp.

TABLE 1:PCB HOLE DIAMETERS

| POWER CONTACTS    |         |                    | ACCESSORIES        | SIGNAL CONTACTS    |
|-------------------|---------|--------------------|--------------------|--------------------|
| 30 A              | 2.00    | Ø2.40              | ø3.10              | ø1.00              |
| Max current power | ØA±0.10 | PCB HOLE<br>+/-0.1 | PCB HOLE<br>+/-0.1 | PCB HOLE<br>+/-0.1 |



|                                       |  |         |  |                   |  |                                   |  |                                 |  |                       |  |                |  |               |  |
|---------------------------------------|--|---------|--|-------------------|--|-----------------------------------|--|---------------------------------|--|-----------------------|--|----------------|--|---------------|--|
| spec ref                              |  |         |  | dr 1, Product Eng |  | 2015/06/12                        |  | projection                      |  | mm                    |  | size A2        |  | scale 1:1     |  |
| tolerance std                         |  |         |  | eng Paul Mithun   |  | 2019/02/20                        |  |                                 |  |                       |  | ecn no         |  | ELX-1-32325-2 |  |
| ISO 406                               |  |         |  | chr -             |  | -                                 |  |                                 |  |                       |  | rel level      |  | Released      |  |
| ISO 1101                              |  |         |  | appr K-Paul Biju  |  | 2019/02/20                        |  |                                 |  |                       |  | product family |  | -             |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |  |         |  | Amphenol FCI      |  | title SUB FEMALE DW US foot print |  | mixed power right angled solder |  | dwg no C01-8639-2301C |  | rev E          |  |               |  |
|                                       |  |         |  |                   |  |                                   |  |                                 |  |                       |  |                |  |               |  |
|                                       |  |         |  |                   |  |                                   |  |                                 |  |                       |  |                |  |               |  |
|                                       |  |         |  |                   |  |                                   |  |                                 |  |                       |  |                |  |               |  |
|                                       |  |         |  |                   |  |                                   |  |                                 |  |                       |  |                |  |               |  |
| surface                               |  | linear  |  | 0.X               |  | ±3                                |  |                                 |  |                       |  |                |  |               |  |
|                                       |  |         |  | 0.XX              |  | ±0.10                             |  |                                 |  |                       |  |                |  |               |  |
|                                       |  |         |  | 0.XXX             |  | ±0.05                             |  |                                 |  |                       |  |                |  |               |  |
| ISO 1302                              |  | angular |  | 0°                |  | ±2°                               |  |                                 |  |                       |  |                |  |               |  |
|                                       |  |         |  | cat. no.          |  | -                                 |  | Product - Customer Drw          |  |                       |  | sheet 1 of 6   |  |               |  |



| PART NUMBER     | AMPS | MATINGS/<br>UNMATINGS | FRONT<br>ACCESSORY    | PCB<br>ACCESSORIES               |
|-----------------|------|-----------------------|-----------------------|----------------------------------|
| D*xWxS700A30LF  | 30   | 200                   | without               | without                          |
| D*LxWxS700A30LF | 30   | 200                   | insert M3             | without                          |
| D*OxWxS700A30LF | 30   | 200                   | insert UNC 4.40       | without                          |
| D*VxWxS700A30LF | 30   | 200                   | female screw UNC 4.40 | without                          |
| D*xWxS700H30LF  | 30   | 200                   | without               | metal bracket+harpoon PCB 2.40mm |
| D*LxWxS700H30LF | 30   | 200                   | insert M3             | metal bracket+harpoon PCB 2.40mm |
| D*OxWxS700H30LF | 30   | 200                   | insert UNC 4.40       | metal bracket+harpoon PCB 2.40mm |
| D*VxWxS700H30LF | 30   | 200                   | female screw UNC 4.40 | metal bracket+harpoon PCB 2.40mm |
| D*xWxS700G30LF  | 30   | 200                   | without               | metal bracket+harpoon PCB 1.60mm |
| D*LxWxS700G30LF | 30   | 200                   | insert M3             | metal bracket+harpoon PCB 1.60mm |
| D*OxWxS700G30LF | 30   | 200                   | insert UNC 4.40       | metal bracket+harpoon PCB 1.60mm |
| D*VxWxS700G30LF | 30   | 200                   | female screw UNC 4.40 | metal bracket+harpoon PCB 1.60mm |
| D*xWxS700M30LF  | 30   | 200                   | without               | metal bracket                    |
| D*LxWxS700M30LF | 30   | 200                   | insert M3             | metal bracket                    |
| D*OxWxS700M30LF | 30   | 200                   | insert UNC 4.40       | metal bracket                    |
| D*VxWxS700M30LF | 30   | 200                   | female screw UNC 4.40 | metal bracket                    |

shell size \* LAYOUTS  
xWx

A

A

B

B

B

C

C

C

11W1

7W2

21W1

17W2

13W3

25W3

21WA4

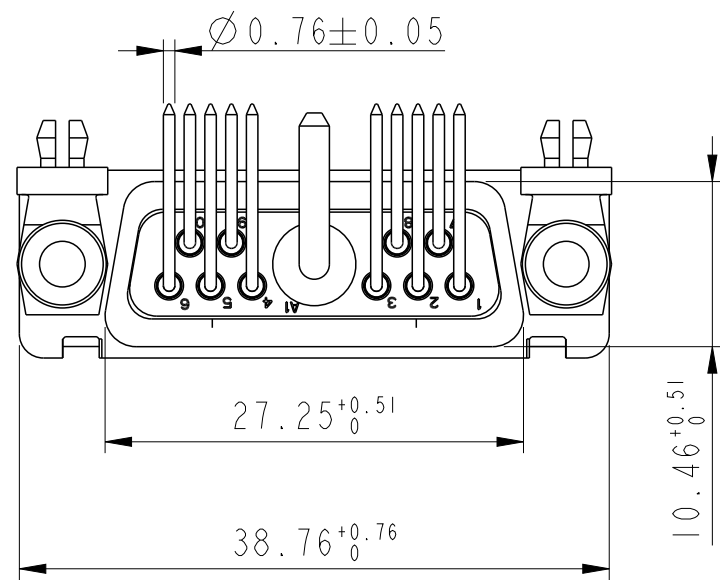
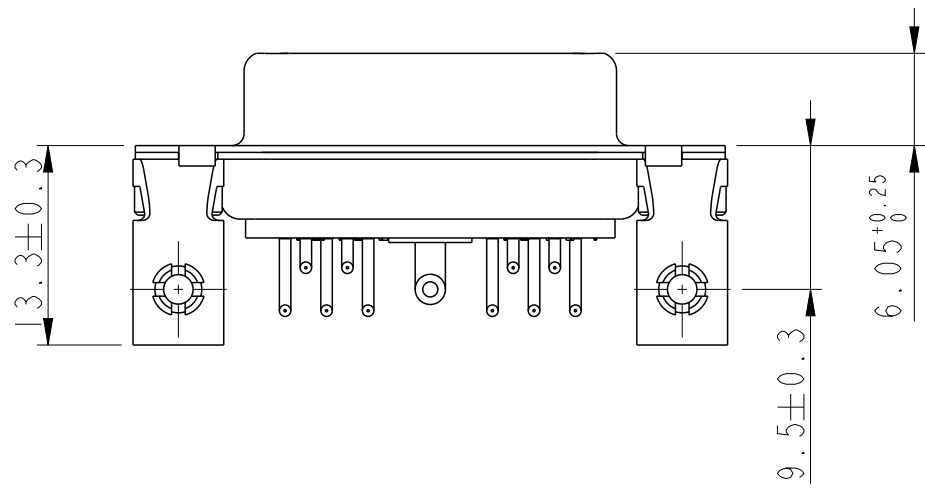
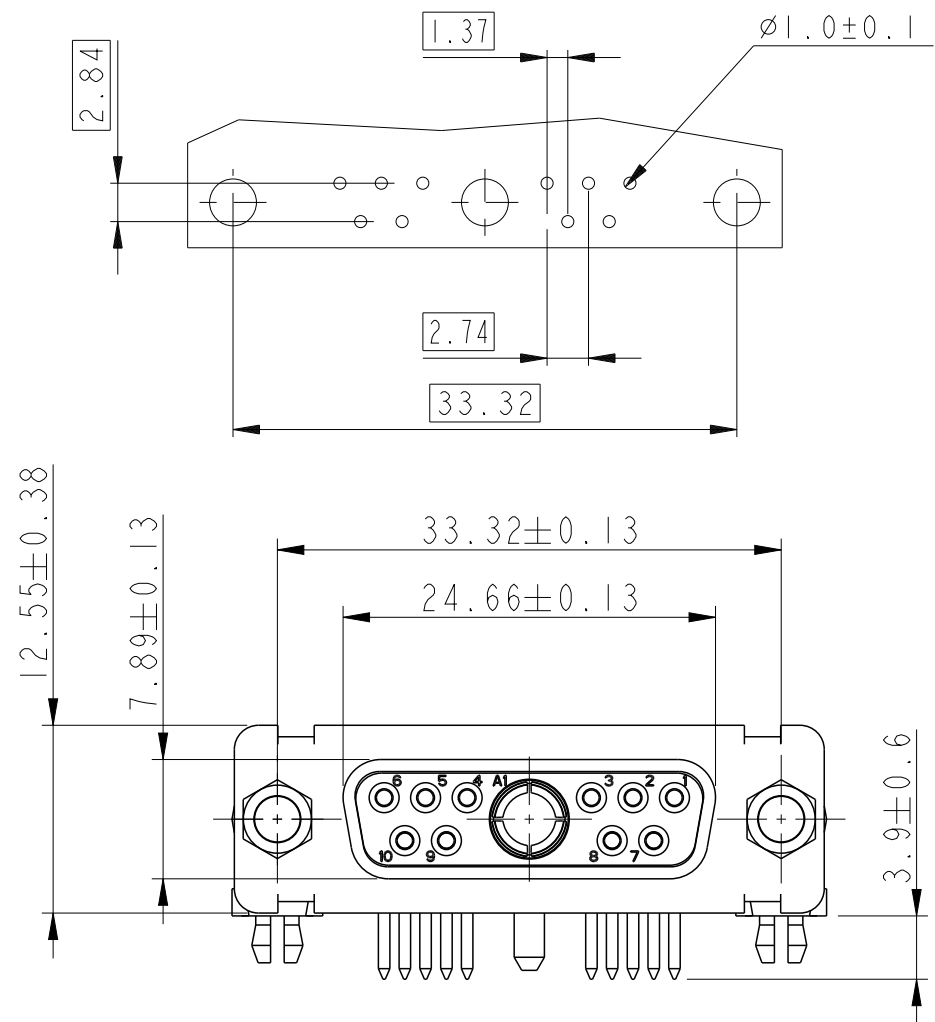
27W2

| PART NUMBER     | AMPS | MATINGS/<br>UNMATINGS | FRONT<br>ACCESSORY    | PCB<br>ACCESSORIES               |
|-----------------|------|-----------------------|-----------------------|----------------------------------|
| D*xWxS743A30LF  | 30   | 500                   | without               | without                          |
| D*LxWxS743A30LF | 30   | 500                   | insert M3             | without                          |
| D*OxWxS743A30LF | 30   | 500                   | insert UNC 4.40       | without                          |
| D*VxWxS743A30LF | 30   | 500                   | female screw UNC 4.40 | without                          |
| D*xWxS743H30LF  | 30   | 500                   | without               | metal bracket+harpoon PCB 2.40mm |
| D*LxWxS743H30LF | 30   | 500                   | insert M3             | metal bracket+harpoon PCB 2.40mm |
| D*OxWxS743H30LF | 30   | 500                   | insert UNC 4.40       | metal bracket+harpoon PCB 2.40mm |
| D*VxWxS743H30LF | 30   | 500                   | female screw UNC 4.40 | metal bracket+harpoon PCB 2.40mm |
| D*xWxS743G30LF  | 30   | 500                   | without               | metal bracket+harpoon PCB 1.60mm |
| D*LxWxS743G30LF | 30   | 500                   | insert M3             | metal bracket+harpoon PCB 1.60mm |
| D*OxWxS743G30LF | 30   | 500                   | insert UNC 4.40       | metal bracket+harpoon PCB 1.60mm |
| D*VxWxS543G30LF | 30   | 500                   | female screw UNC 4.40 | metal bracket+harpoon PCB 1.60mm |
| D*xWxS743M30LF  | 30   | 500                   | without               | metal bracket                    |
| D*LxWxS743M30LF | 30   | 500                   | insert M3             | metal bracket                    |
| D*OxWxS743M30LF | 30   | 500                   | insert UNC 4.40       | metal bracket                    |
| D*VxWxS743M30LF | 30   | 500                   | female screw UNC 4.40 | metal bracket                    |

|               |  |         |  |                        |  |                |  |            |  |                 |  |       |  |                             |  |              |  |                |  |     |  |      |  |       |  |       |  |       |  |
|---------------|--|---------|--|------------------------|--|----------------|--|------------|--|-----------------|--|-------|--|-----------------------------|--|--------------|--|----------------|--|-----|--|------|--|-------|--|-------|--|-------|--|
| spec ref      |  |         |  | dr                     |  | 1, Product Eng |  | 2015/06/12 |  | projection      |  | mm    |  | size                        |  | A2           |  | scale          |  | 1:1 |  |      |  |       |  |       |  |       |  |
| tolerance std |  |         |  | eng                    |  | Paul Mithun    |  | 2019/02/20 |  |                 |  |       |  | ecn no                      |  | ELX-132325-2 |  |                |  |     |  |      |  |       |  |       |  |       |  |
| ISO 406       |  |         |  | chr                    |  | -              |  | -          |  |                 |  |       |  |                             |  |              |  |                |  |     |  |      |  |       |  |       |  |       |  |
| ISO 1101      |  |         |  | appr                   |  | K-Paul Biju    |  | 2019/02/20 |  | product family  |  | -     |  | rel level                   |  | Released     |  |                |  |     |  |      |  |       |  |       |  |       |  |
| surface       |  |         |  | linear                 |  | 0.X            |  | ±3         |  | Amphenol<br>FCi |  | title |  | SUB FEMALE DW US foot print |  | dwg no       |  | C01-8639-2301C |  | rev |  |      |  |       |  |       |  |       |  |
|               |  |         |  |                        |  |                |  |            |  |                 |  |       |  |                             |  |              |  |                |  |     |  | 0.XX |  | ±0.10 |  |       |  |       |  |
|               |  |         |  |                        |  |                |  |            |  |                 |  |       |  |                             |  |              |  |                |  |     |  |      |  |       |  | 0.XXX |  | ±0.05 |  |
|               |  |         |  |                        |  |                |  |            |  |                 |  |       |  |                             |  |              |  |                |  |     |  |      |  |       |  |       |  |       |  |
| cat. no.      |  | -       |  | Product - Customer Drw |  | sheet 3 of 6   |  |            |  |                 |  |       |  |                             |  |              |  |                |  |     |  |      |  |       |  |       |  |       |  |
| ISO 1302      |  | angular |  |                        |  |                |  |            |  |                 |  |       |  |                             |  |              |  |                |  |     |  |      |  |       |  |       |  |       |  |
|               |  |         |  |                        |  |                |  |            |  |                 |  |       |  |                             |  |              |  |                |  |     |  |      |  |       |  |       |  |       |  |
|               |  |         |  |                        |  |                |  |            |  |                 |  |       |  |                             |  |              |  |                |  |     |  |      |  |       |  |       |  |       |  |

LAYOUT AND CONNECTOR DIMENSIONS

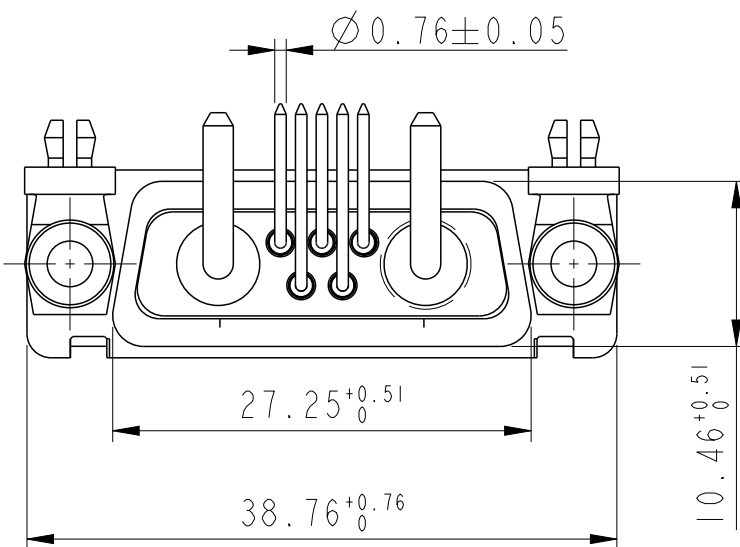
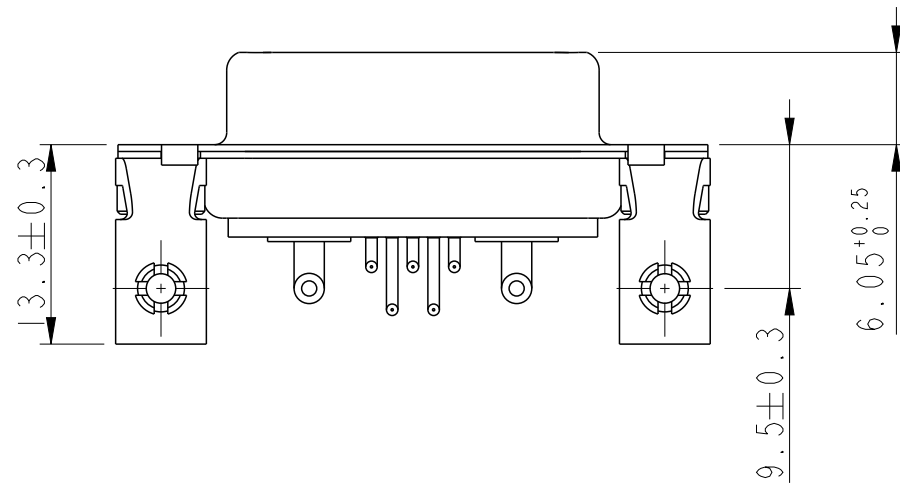
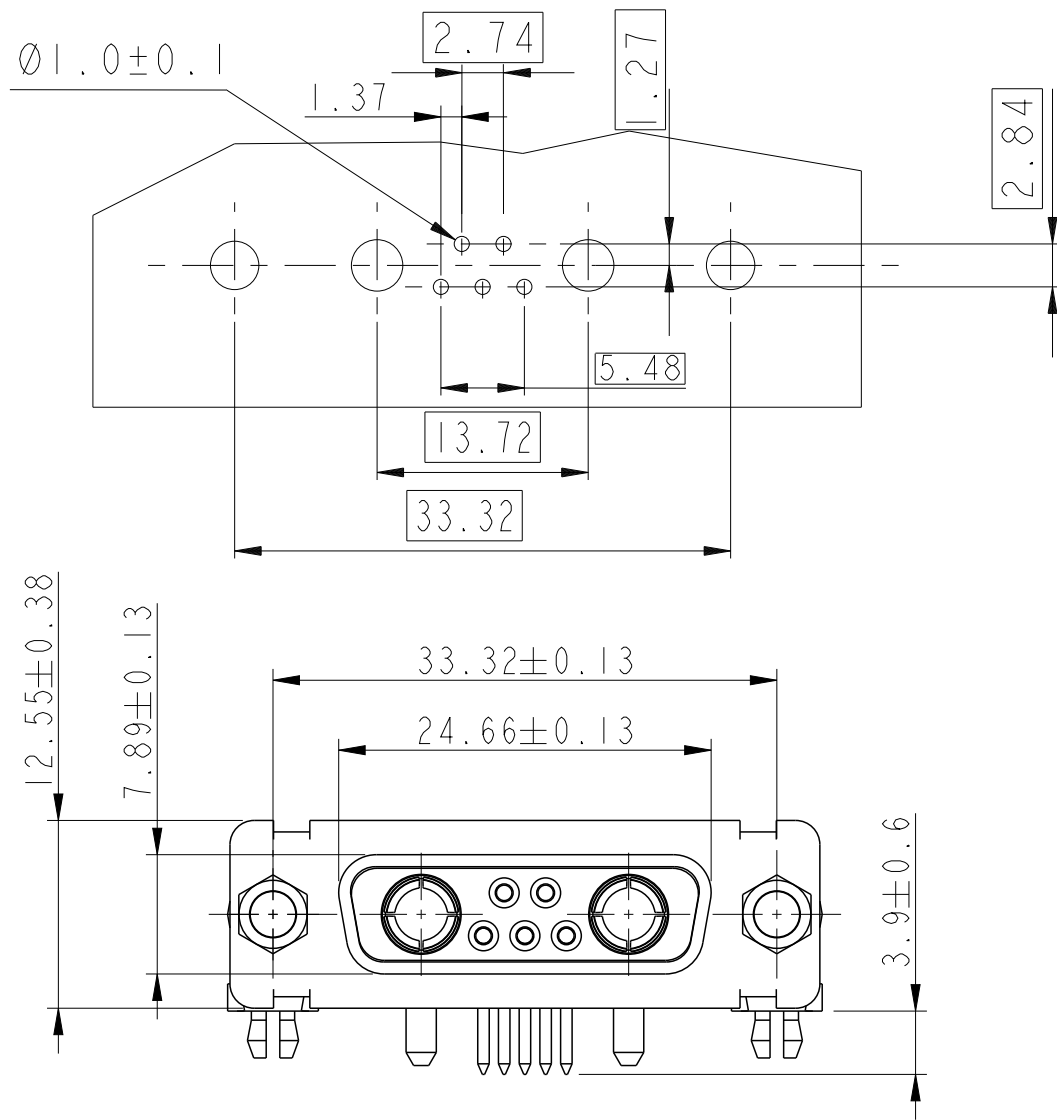
For PCB hole diameters see table I sheet I



7W2

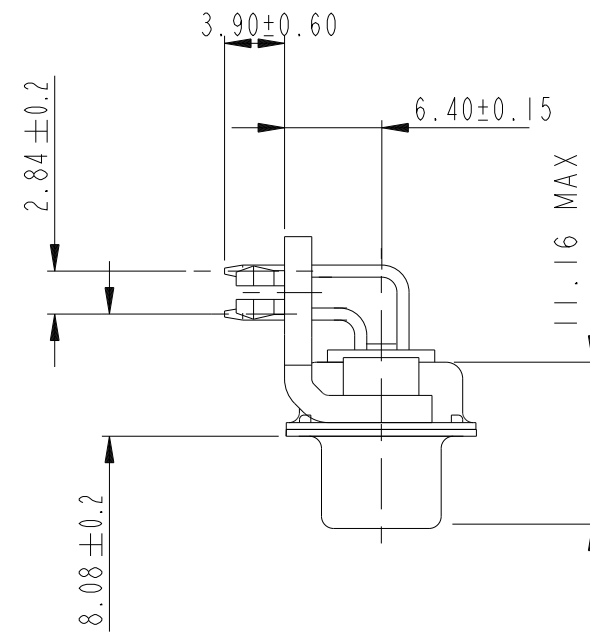
LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I

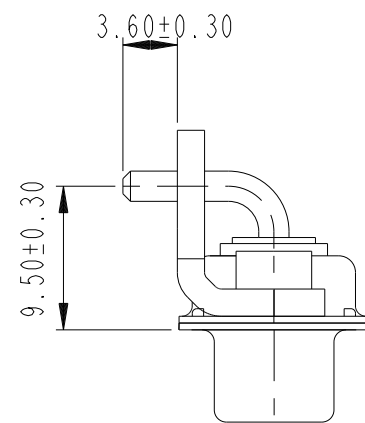


SIDE VIEW FOR ALL LAYOUTS

VIEW WITHOUT POWERS  
CONTACTS



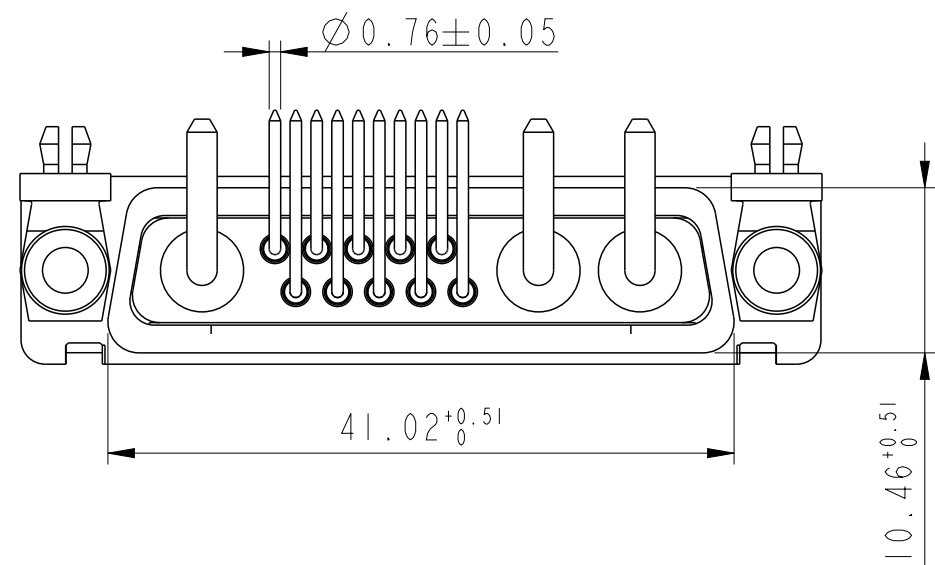
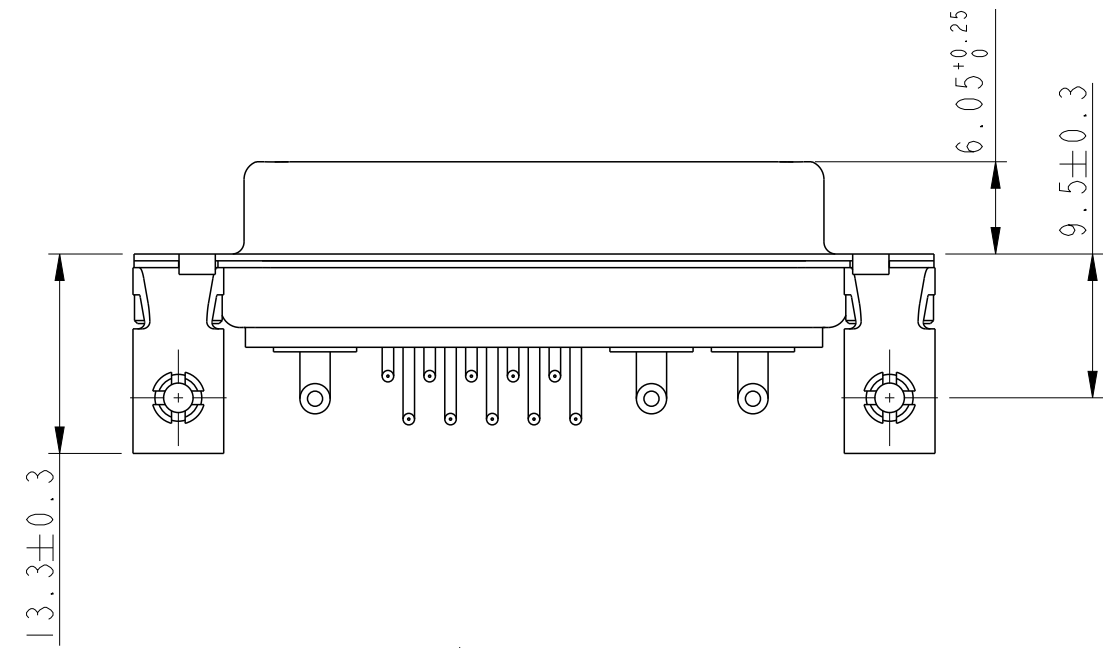
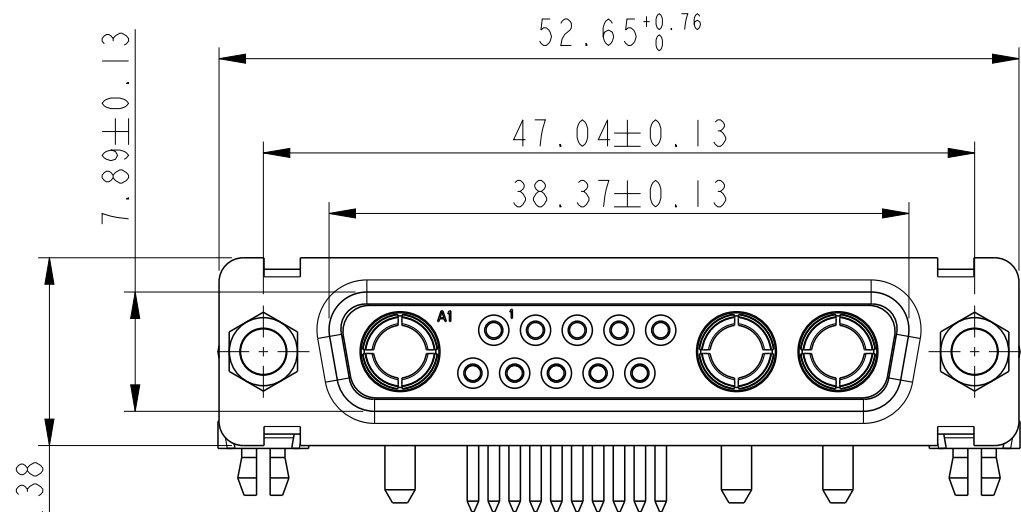
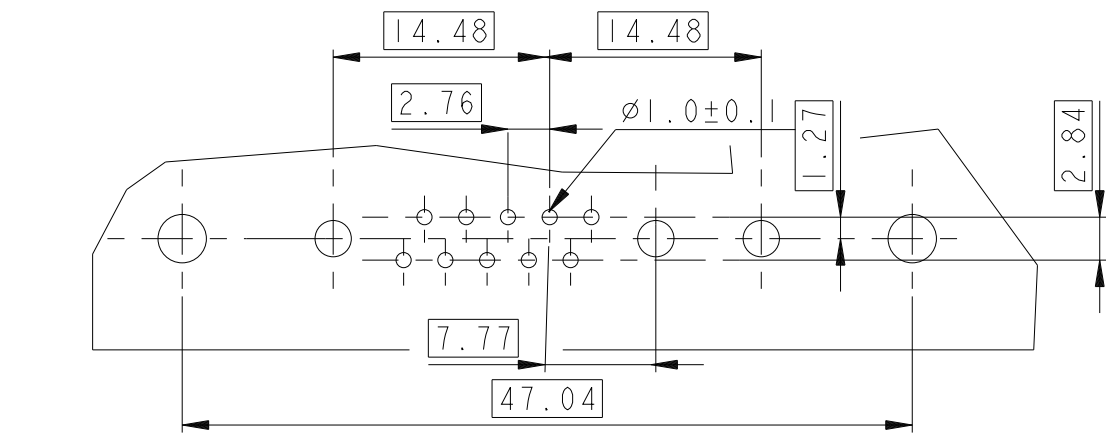
VIEW WITH POWERS  
CONTACTS



|               |         |                |            |                 |             |                                 |                        |                |           |
|---------------|---------|----------------|------------|-----------------|-------------|---------------------------------|------------------------|----------------|-----------|
| spec ref      | dr      | 1, Product Eng | 2015/06/12 | projection      | mm          | size                            | A2                     | scale          | 2:1       |
| tolerance std | eng     | Paul Mithun    | 2019/02/20 | chr             | -           | ecn no                          | ELX-132325-2           |                |           |
| ISO 406       | chr     | -              | -          | appr            | K-Paul Biju | 2019/02/20                      | product family         | -              | rel level |
| ISO 1101      |         |                |            |                 |             |                                 |                        |                | Released  |
| surface       | linear  | 0.X            | ±3         | Amphenol<br>FCi | title       | SUB FEMALE DW US foot print     | dwg no                 | C01-8639-2301C | rev       |
| ISO 1302      | angular | 0°             | ±2°        |                 |             | mixed power right angled solder |                        |                | E         |
|               |         |                |            |                 | cat. no.    | -                               | Product - Customer Drw | sheet 4 of 6   |           |

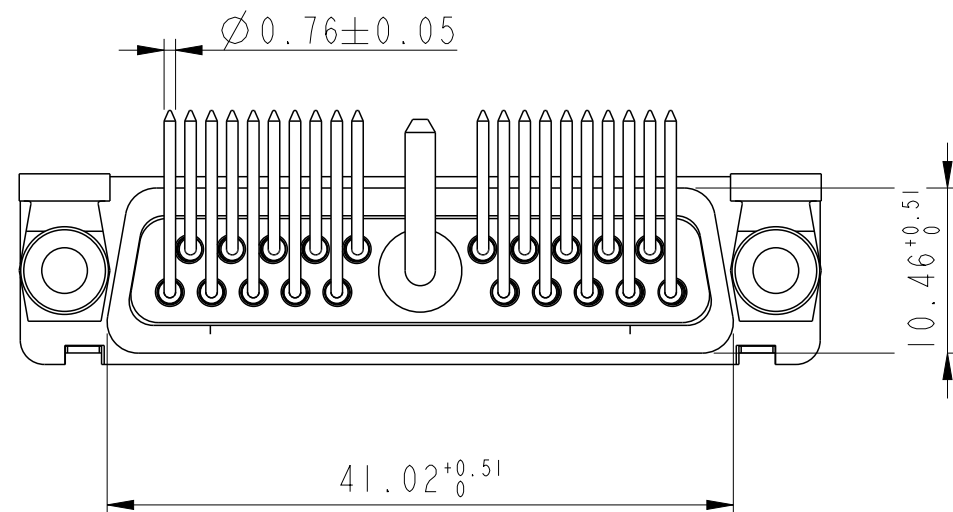
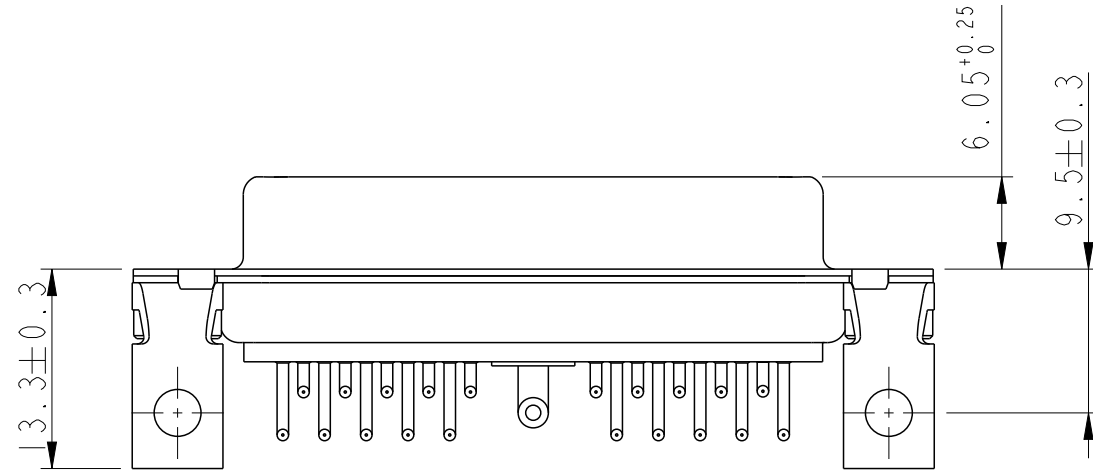
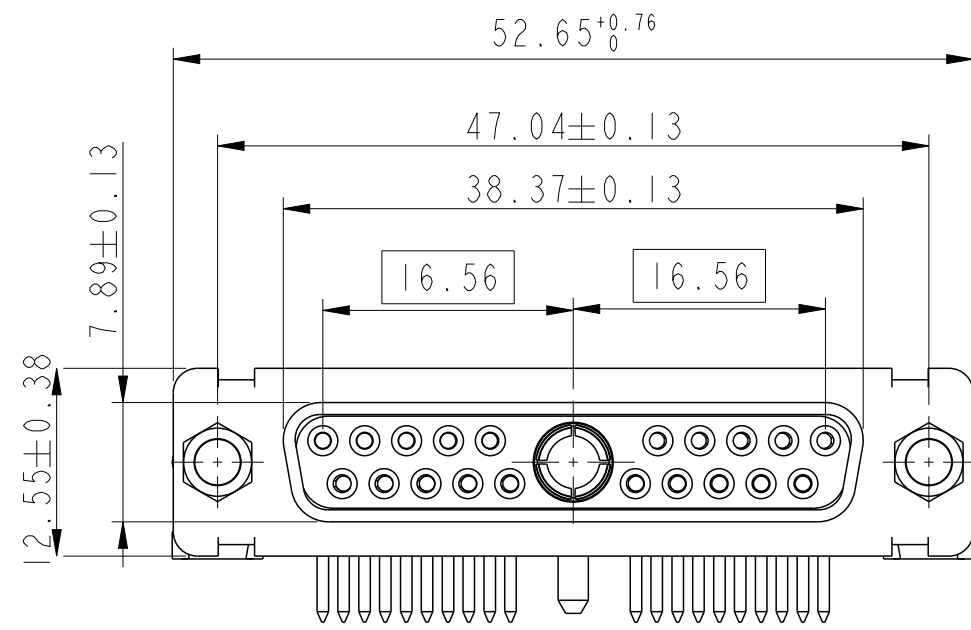
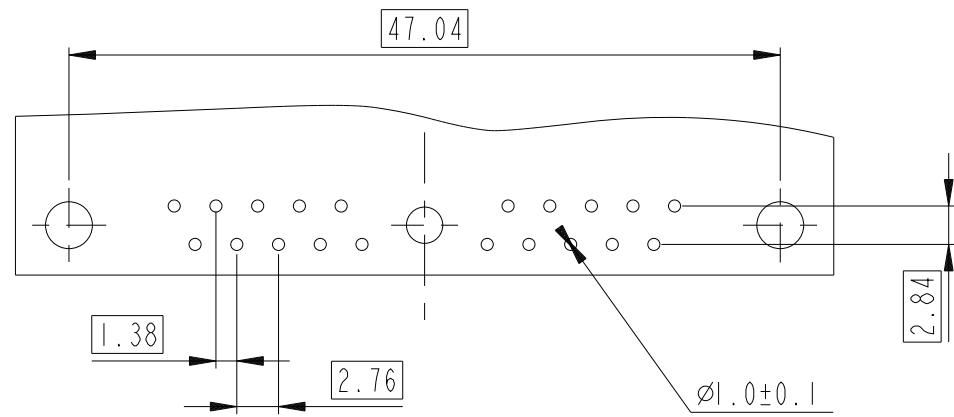
13W3

LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table I sheet I



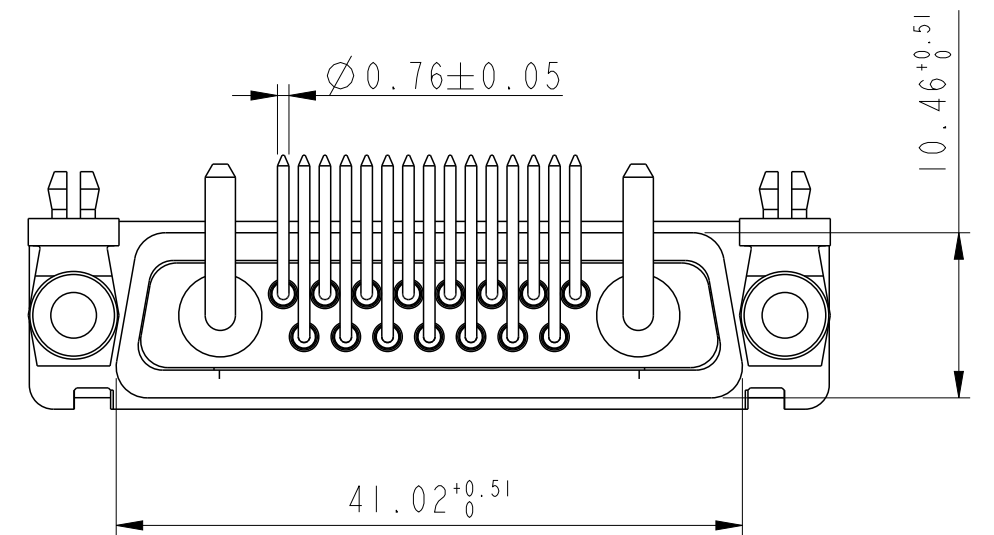
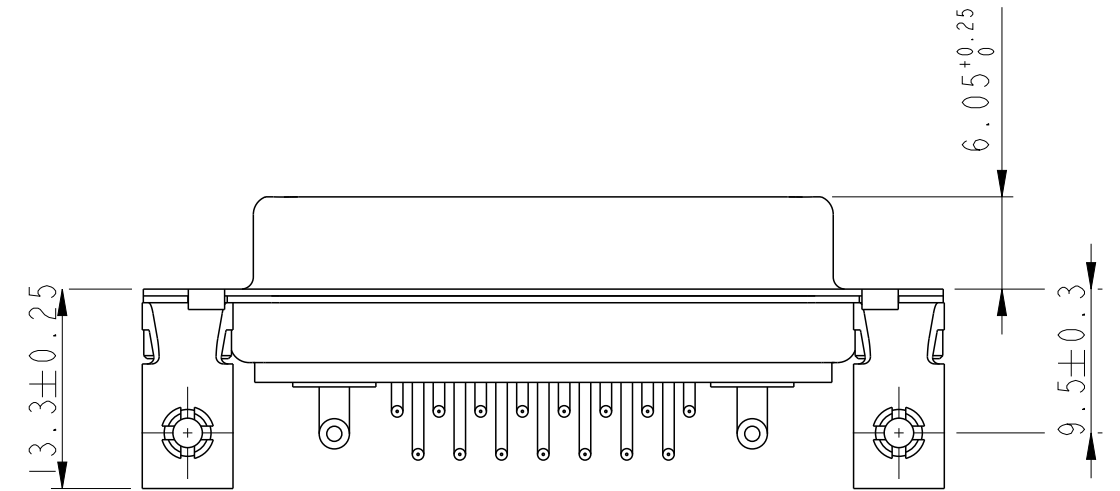
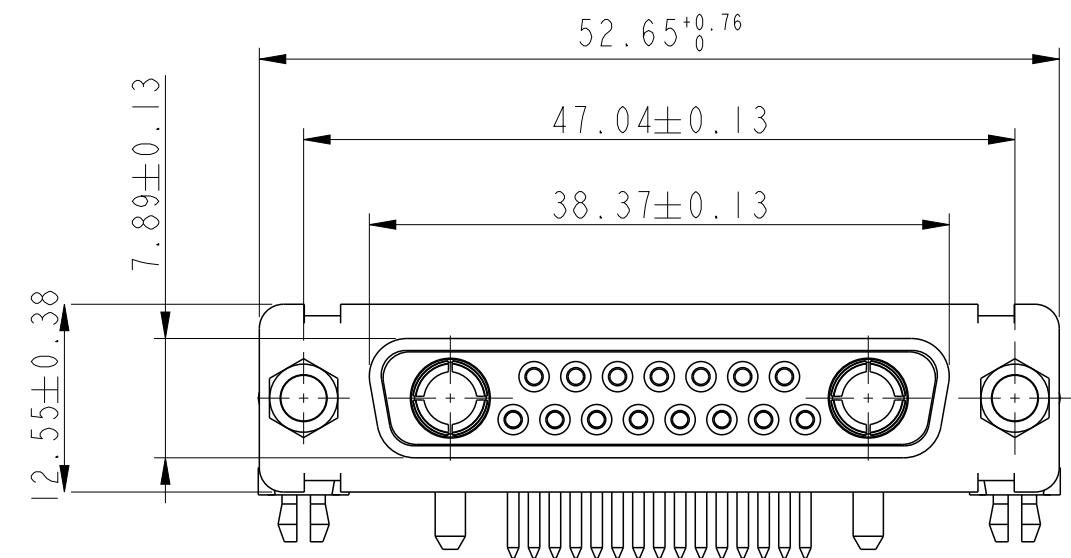
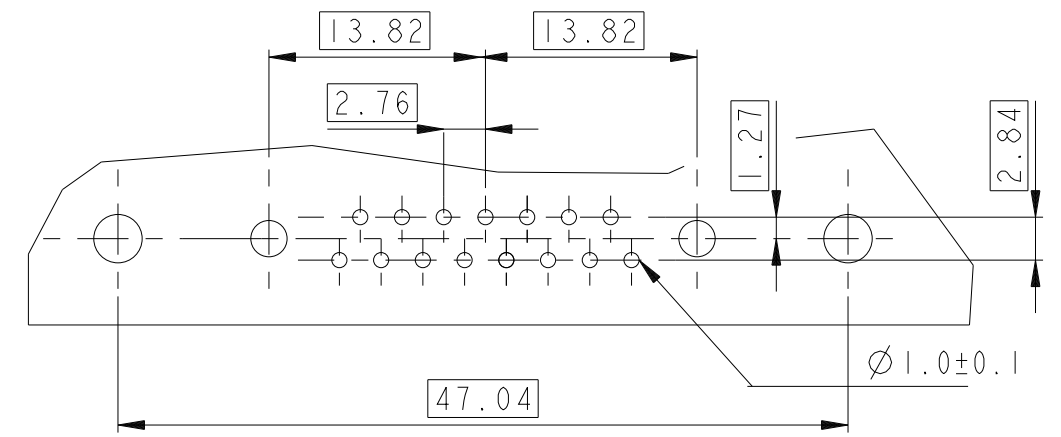
21W1

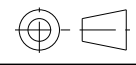
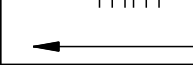
LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table I sheet I



17W2

LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table I sheet I

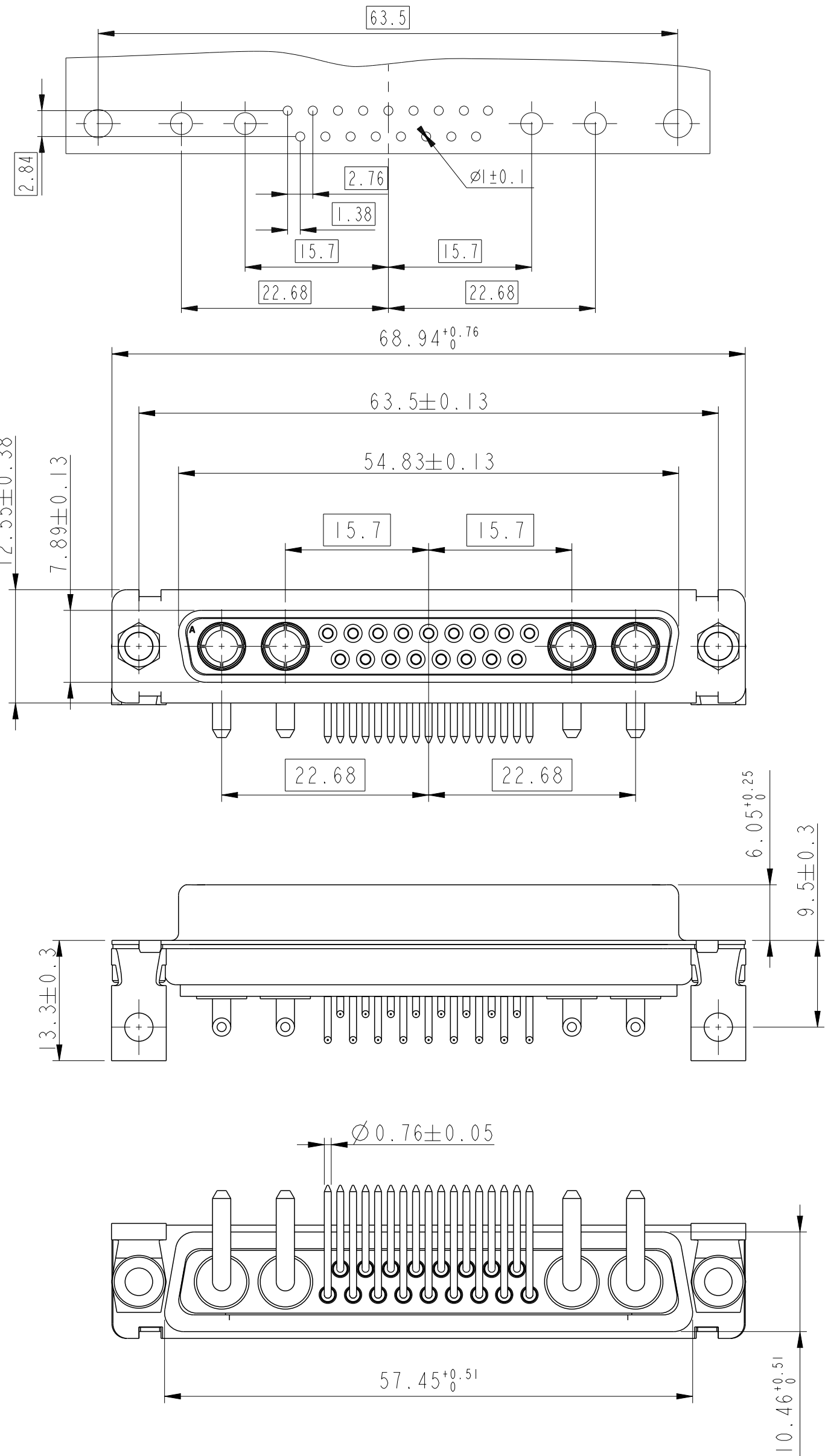


|                                          |  |         |  |                                |  |                 |  |                                                                |  |                                                                                       |  |                                                                                       |  |                |  |              |  |           |  |          |  |                |  |
|------------------------------------------|--|---------|--|--------------------------------|--|-----------------|--|----------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|----------------|--|--------------|--|-----------|--|----------|--|----------------|--|
| spec ref                                 |  |         |  | dr                             |  | 1, Product Eng  |  | 2015/06/12                                                     |  | projection                                                                            |  | mm                                                                                    |  | size           |  | A2           |  | scale     |  | 2:1      |  |                |  |
| tolerance std                            |  |         |  | eng                            |  | Paul Mithun     |  | 2019/02/20                                                     |  |  |  |  |  | ecn no         |  | ELX-132325-2 |  | rel level |  | Released |  |                |  |
| ISO 406<br>ISO 1101                      |  |         |  | chr                            |  | -               |  | 2019/02/20                                                     |  |                                                                                       |  |                                                                                       |  |                |  |              |  |           |  |          |  | product family |  |
| TOLERANCES UNLESS<br>OTHERWISE SPECIFIED |  |         |  | appr                           |  | K-Paul Biju     |  | 2019/02/20                                                     |  |                                                                                       |  |                                                                                       |  |                |  |              |  |           |  |          |  |                |  |
| surface                                  |  | linear  |  | 0.X<br>±0.10<br>0.XXX<br>±0.05 |  | Amphenol<br>FCi |  | SUB FEMALE DW US foot print<br>mixed power right angled solder |  | title                                                                                 |  | dwg no                                                                                |  | C01-8639-2301C |  | rev          |  | E         |  |          |  |                |  |
|                                          |  |         |  |                                |  |                 |  |                                                                |  |                                                                                       |  |                                                                                       |  |                |  |              |  |           |  |          |  |                |  |
|                                          |  |         |  |                                |  |                 |  |                                                                |  |                                                                                       |  |                                                                                       |  |                |  |              |  |           |  |          |  |                |  |
| ISO 1302                                 |  | angular |  | 0°<br>±2°                      |  |                 |  | cat. no.                                                       |  | -                                                                                     |  | Product - Customer Drw                                                                |  | sheet 5 of 6   |  |              |  |           |  |          |  |                |  |

# 21WA4

## LAYOUT AND CONNECTOR DIMENSIONS

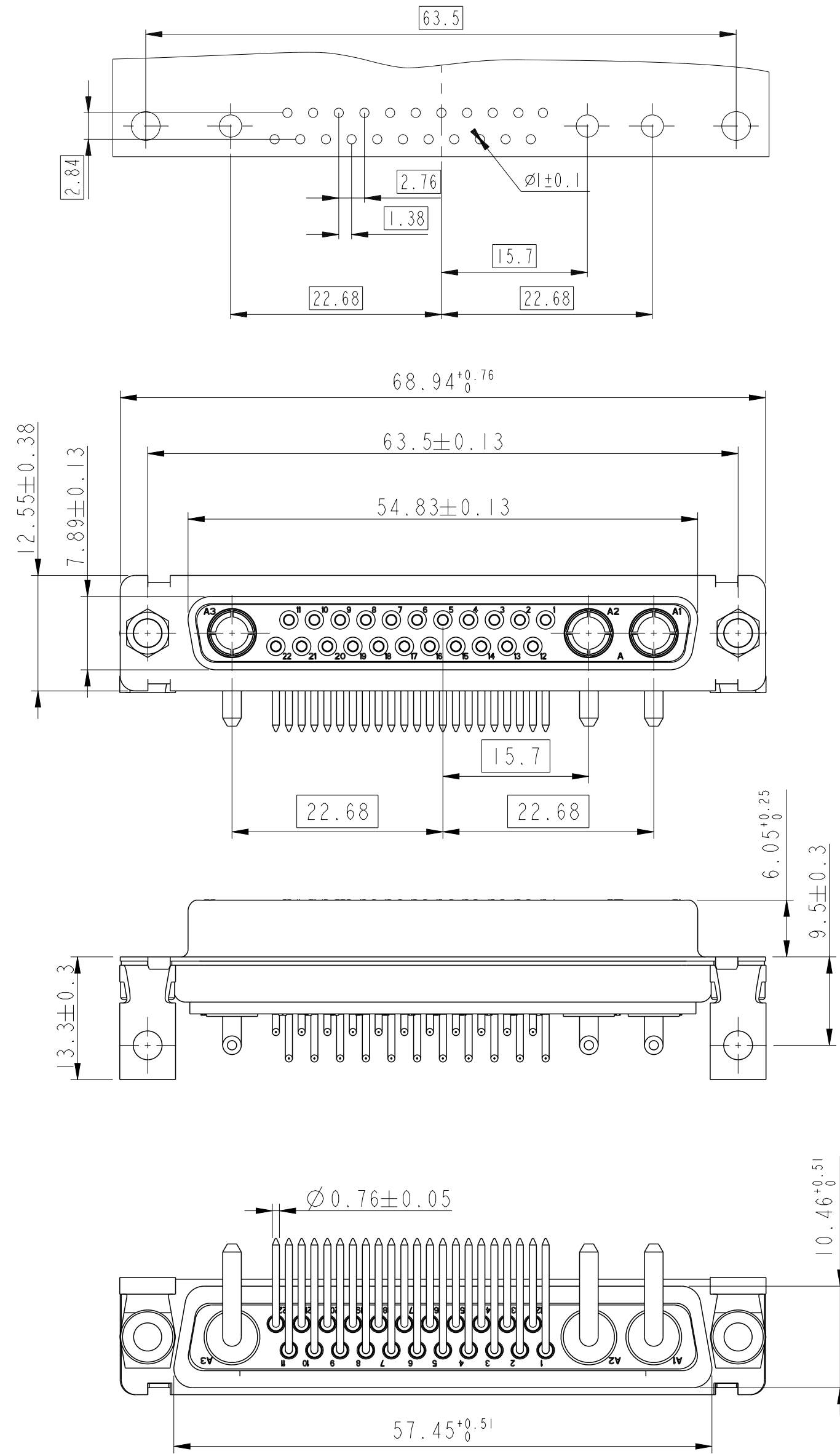
For PCB hole diameters see table I sheet I



# 25W3

## LAYOUT AND CONNECTOR DIMENSIONS

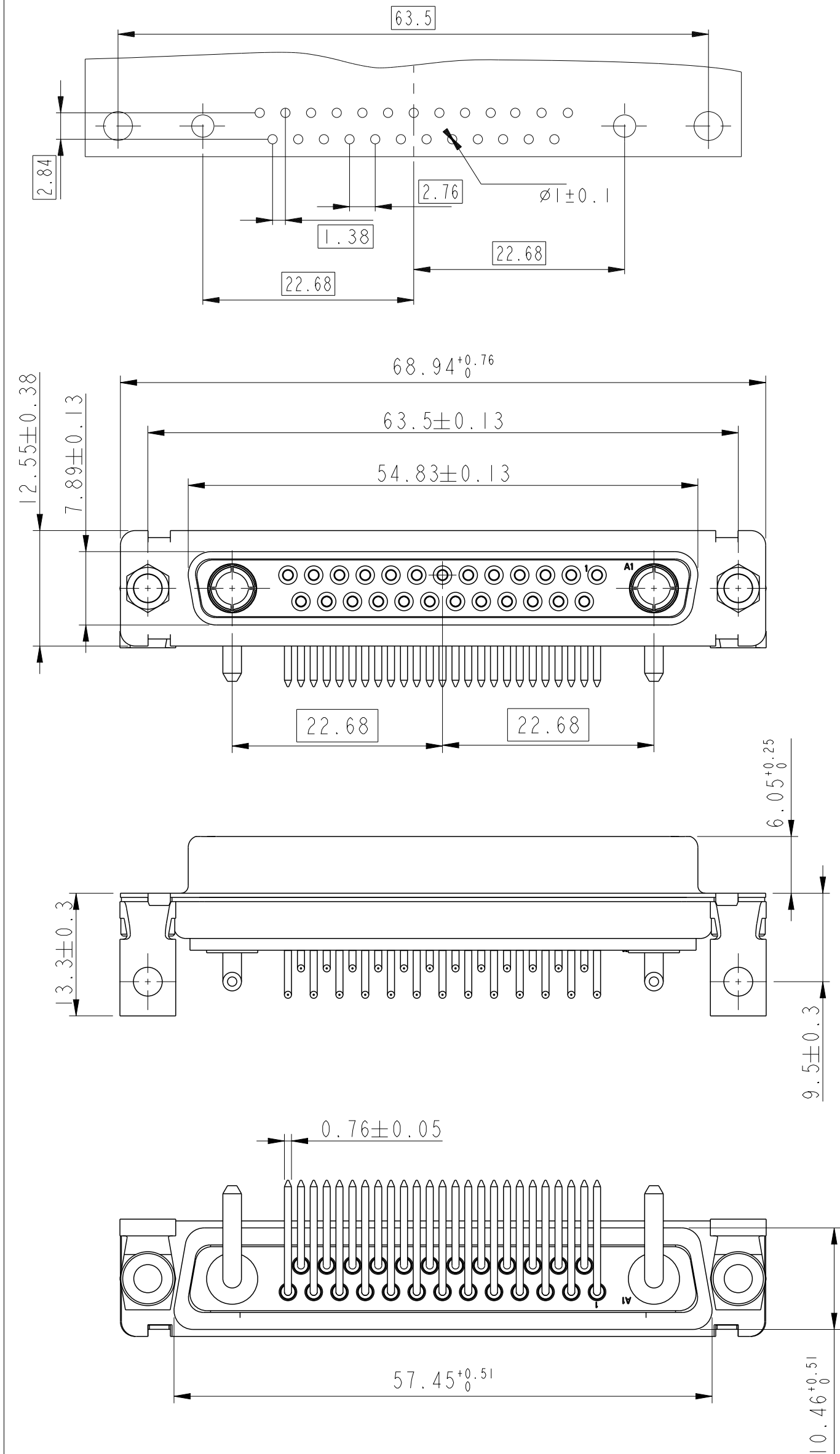
For PCB hole diameters see table I sheet I



# 27W2

## LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table I sheet I



|               |         |                |            |                |              |          |             |                        |                                 |
|---------------|---------|----------------|------------|----------------|--------------|----------|-------------|------------------------|---------------------------------|
| spec ref      | dr      | 1, Product Eng | 2015/06/12 | projection     | mm           | size     | A2          | scale                  | 2:1                             |
| tolerance std | eng     | Paul Mithun    | 2019/02/20 | chr            | -            | ecn no   | ELX-32325-2 | rel level              | Released                        |
| ISO 406       | app     | K-Paul Biju    | 2019/02/20 | product family | -            | cat. no. | -           | Product - Customer Drw | sheet 6 of 6                    |
| ISO 1101      | surface | linear         | 0.X ±3     | 0.XX ±0.10     | 0.XXX ±±0.05 | angular  | 0° ±2°      | Amphenol FCI           | SUB FEMALE DW US foot print     |
|               |         |                |            |                |              |          |             |                        | mixed power right angled solder |
|               |         |                |            |                |              |          |             |                        | cat. no.                        |
|               |         |                |            |                |              |          |             |                        | Product - Customer Drw          |
|               |         |                |            |                |              |          |             |                        | sheet 6 of 6                    |
|               |         |                |            |                |              |          |             |                        | rev                             |
|               |         |                |            |                |              |          |             |                        | E                               |