

## REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 501)

## PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC UL94V0

-CONTACT MATERIAL: PHOSPHOR BRONZE,  
GOLD OVER NICKEL

-ACCESSORIES: STEEL FOR METAL BRACKETS,  
cadmium plated yellow passivation  
THERMOPLASTIC UL94V0 FOR PLASTIC BRACKETS

BRASS FOR OTHERS ACCESSORIES,  
cadmium plated yellow passivation

-SHELLS: STEEL, cadmium plated yellow passivation

## ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 7.5A

-CONTACT RESISTANCE: <=7.3 m Ohms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

## ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/56

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 56 DAYS

SALT SPRAY 48 HOURS

## MECHANICAL CHARACTERISTICS

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

-Female screw:0.5 N.m min

Series

# DBML25S500M

Shell size: **E A B C D**  
(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 sheet 3)

**9,15,25,37,50**

Contacts

**S** :Socket

Termination type

**5** Right angle/Europe standard

Plating

**00** Right angle 500 matings/unmatings

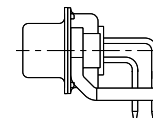
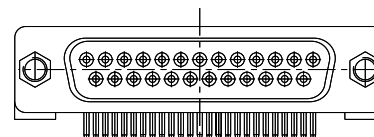
**43** Right angle 500 matings/unmatings  
for harsh environment

PCB accessories definition(see sheet 2)

**Blank** :Plastic brackets

**C** :Without brackets

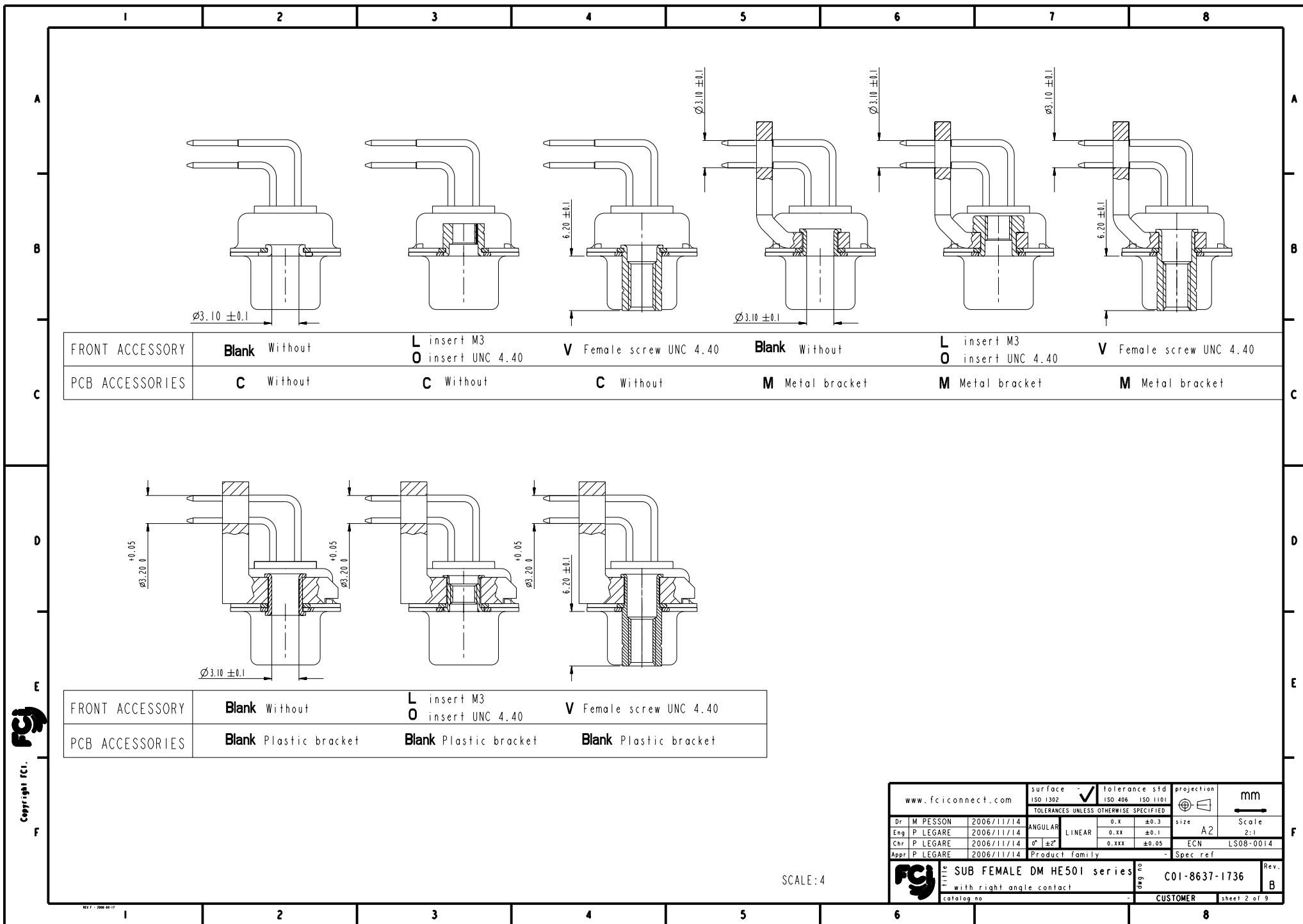
**M** :Metal brackets



25 WAY for Example

| rev | acc no    | dr  | date       |
|-----|-----------|-----|------------|
| A   | 3506-0174 | MPE | 2006/11/14 |
| B   | 3508-0014 | MPE | 2007/01/17 |
| -   | -         | -   | -          |
| -   | -         | -   | -          |
| -   | -         | -   | -          |
| -   | -         | -   | -          |
| -   | -         | -   | -          |

|                                                                                       |           |  |            |                                                           |        |       |                                                                                       |          |                                                                                       |               |          |
|---------------------------------------------------------------------------------------|-----------|--|------------|-----------------------------------------------------------|--------|-------|---------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|---------------|----------|
| www.fciconnect.com                                                                    |           |  |            | surface <input checked="" type="checkbox"/> tolerance std |        |       | projection                                                                            |          | mm                                                                                    |               |          |
|                                                                                       |           |  |            | ISO 1302 ISO 406 ISO 1101                                 |        |       |  |          |  |               |          |
|                                                                                       |           |  |            | TOLERANCES UNLESS OTHERWISE SPECIFIED                     |        |       |                                                                                       |          |                                                                                       |               |          |
| Dr                                                                                    | M PESSON  |  | 2006/11/14 | ANGULAR                                                   | LINEAR | 0.X   | ±0.3                                                                                  | size     | A2                                                                                    | Scale         |          |
| Eng                                                                                   | P. LEGARE |  | 2006/11/14 |                                                           |        | 0.XX  | ±0.1                                                                                  |          |                                                                                       |               |          |
| Chr                                                                                   | P. LEGARE |  | 2006/11/14 | 0° ±2°                                                    |        | 0.XXX | ±0.05                                                                                 | ECN      | LS08-0014                                                                             |               |          |
| Appr                                                                                  | P. LEGARE |  | 2006/11/14 | Product family                                            |        |       | -                                                                                     |          |                                                                                       |               | Spec ref |
|  |           |  |            | SUB FEMALE DM HE501 series                                |        |       |                                                                                       | deg no   |                                                                                       | C01-8637-1736 | Rev      |
|                                                                                       |           |  |            | with right angle contact                                  |        |       |                                                                                       |          |                                                                                       |               | B        |
| catalog no                                                                            |           |  |            | -                                                         |        |       |                                                                                       | CUSTOMER |                                                                                       | sheet 1 of 9  |          |



|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
|   | I | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A |   |   |   |   |   |   |   |   |
| B |   |   |   |   |   |   |   |   |
| C |   |   |   |   |   |   |   |   |
| D |   |   |   |   |   |   |   |   |
| E |   |   |   |   |   |   |   |   |
| F |   |   |   |   |   |   |   |   |

| PART NUMBER | FRONT ACCESSORY       | PCB ACCESSORY   |
|-------------|-----------------------|-----------------|
| D*MxxS500C  | without               | without         |
| D*MLxxS500C | insert M3             | without         |
| D*MOxxS500C | insert UNC 4.40       | without         |
| D*MVxxS500C | female screw UNC 4.40 | without         |
| D*MxxS500M  | without               | Metal bracket   |
| D*MLxxS500M | insert M3             | Metal bracket   |
| D*MOxxS500M | insert UNC 4.40       | Metal bracket   |
| D*MVxxS500M | female screw UNC 4.40 | Metal bracket   |
| D*MxxS500   | without               | Plastic bracket |
| D*MLxxS500  | insert M3             | Plastic bracket |
| D*MOxxS500  | insert UNC 4.40       | Plastic bracket |
| D*MVxxS500  | female screw UNC 4.40 | Plastic bracket |

| PART NUMBER | FRONT ACCESSORY       | PCB ACCESSORY   |
|-------------|-----------------------|-----------------|
| D*MxxS543C  | without               | without         |
| D*MLxxS543C | insert M3             | without         |
| D*MOxxS543C | insert UNC 4.40       | without         |
| D*MVxxS543C | female screw UNC 4.40 | without         |
| D*MxxS543M  | without               | Metal bracket   |
| D*MLxxS543M | insert M3             | Metal bracket   |
| D*MOxxS543M | insert UNC 4.40       | Metal bracket   |
| D*MVxxS543M | female screw UNC 4.40 | Metal bracket   |
| D*MxxS543   | without               | Plastic bracket |
| D*MLxxS543  | insert M3             | Plastic bracket |
| D*MOxxS543  | insert UNC 4.40       | Plastic bracket |
| D*MVxxS543  | female screw UNC 4.40 | Plastic bracket |

shell size      Contact number

|   |    |
|---|----|
| X | XX |
| E | 09 |
| A | 15 |
| B | 25 |
| C | 37 |
| D | 50 |

CROSS REFERENCES HE501 and FCI

| HE501 P/N   | FCI P/N    | FRONT ACCESSORY | PCB ACCESSORY   |
|-------------|------------|-----------------|-----------------|
| HE501PxxVS6 | D*MxxS500  | without         | Plastic bracket |
| HE501MxxVS6 | D*MxxS500M | without         | Metal bracket   |

|                    |          |                                                        |                                                                                             |            |               |
|--------------------|----------|--------------------------------------------------------|---------------------------------------------------------------------------------------------|------------|---------------|
| www.fciconnect.com |          | surface - <input checked="" type="checkbox"/> ISO 1302 | tolerance std <input checked="" type="checkbox"/> ISO 406 <input type="checkbox"/> ISO 1101 | projection | mm            |
|                    |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                  |                                                                                             |            |               |
| Dr                 | M PESSON | 2006/11/14                                             | ANGULAR                                                                                     | 0.X        | ±0.3          |
| Eng                | P LEGARE | 2006/11/14                                             | LINEAR                                                                                      | 0.XX       | ±0.1          |
| Chr                | P LEGARE | 2006/11/14                                             | 0° ±2°                                                                                      | 0.XXX      | ±0.05         |
| Appr               | P LEGARE | 2006/11/14                                             | Product family                                                                              | - Spec ref |               |
|                    |          | SUB FEMALE DM HE501 series                             |                                                                                             | deg no     | C01-8637-1736 |
|                    |          | with right angle contact                               |                                                                                             | Rev.       | B             |
|                    |          | catalog no                                             | CUSTOMER                                                                                    |            | sheet 3 of 9  |

PDM-Rev-B

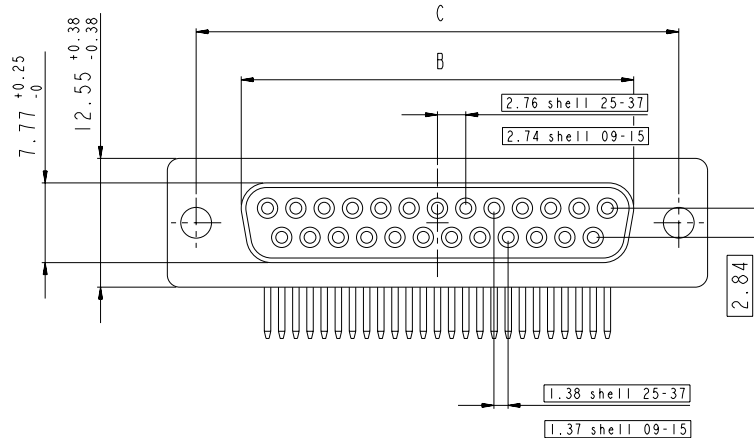
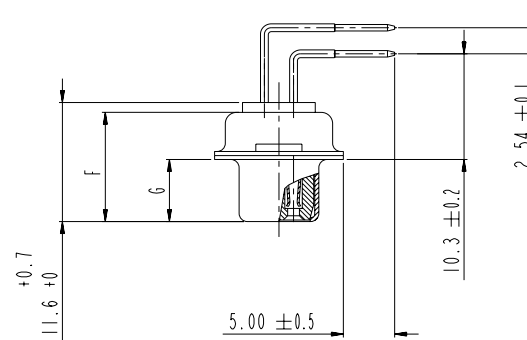
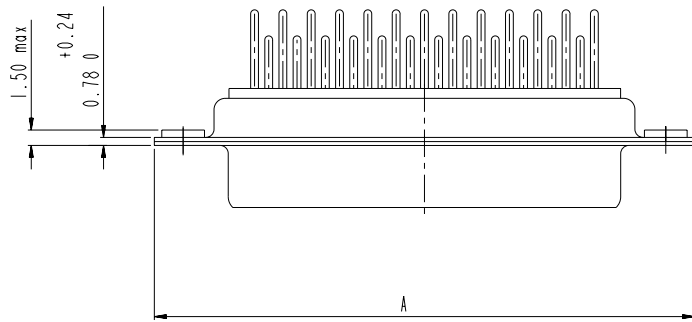
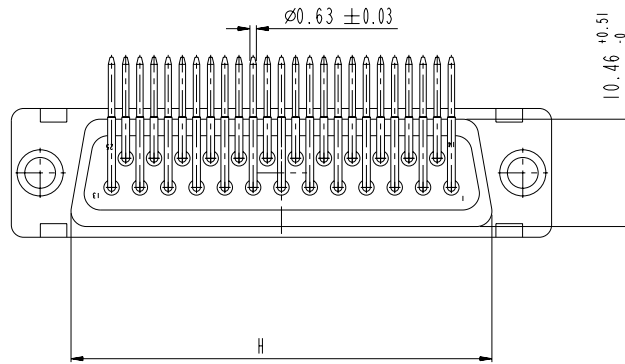
STATUS: Released

Printed: Jun 18, 2015

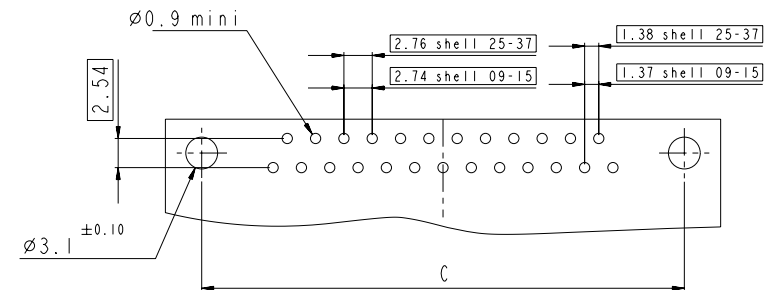
# DIMENSION FOR SHELL E,A,B,C WITHOUT BRACKET

Dimensions are in millimeters

| Shell size | Number of contacts | A <sup>+0.76</sup> <sub>-0</sub> | B <sup>+0.25</sup> <sub>-0</sub> | C $\pm 0.12$ | F <sup>+0.57</sup> <sub>-0</sub> | G <sup>+0.25</sup> <sub>-0</sub> | H <sup>+0.51</sup> <sub>-0</sub> |
|------------|--------------------|----------------------------------|----------------------------------|--------------|----------------------------------|----------------------------------|----------------------------------|
| E          | 09                 | 30.43                            | 16.21                            | 24.99        | 10.64                            | 6.05                             | 19.02                            |
| A          | 15                 | 38.76                            | 24.54                            | 33.32        | 10.64                            | 6.05                             | 27.25                            |
| B          | 25                 | 52.65                            | 38.25                            | 47.04        | 10.64                            | 6.05                             | 41.02                            |
| C          | 37                 | 68.94                            | 54.71                            | 63.50        | 10.64                            | 6.05                             | 57.45                            |



## LAYOUT DIMENSIONS



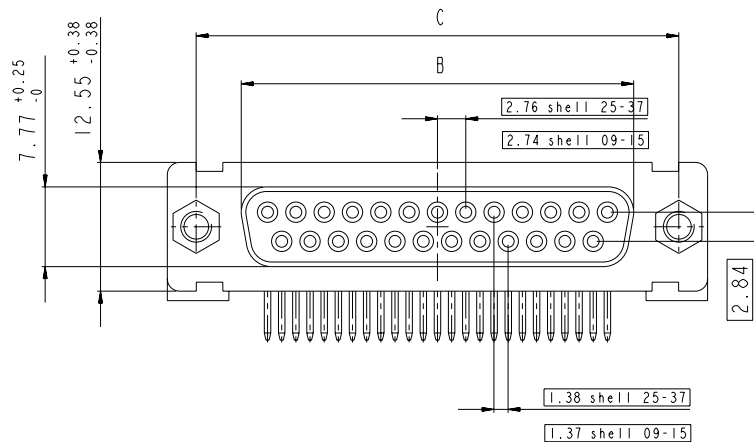
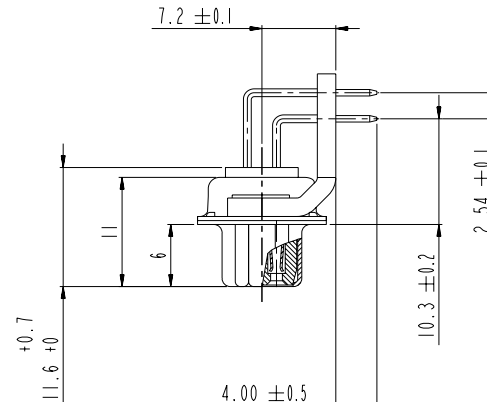
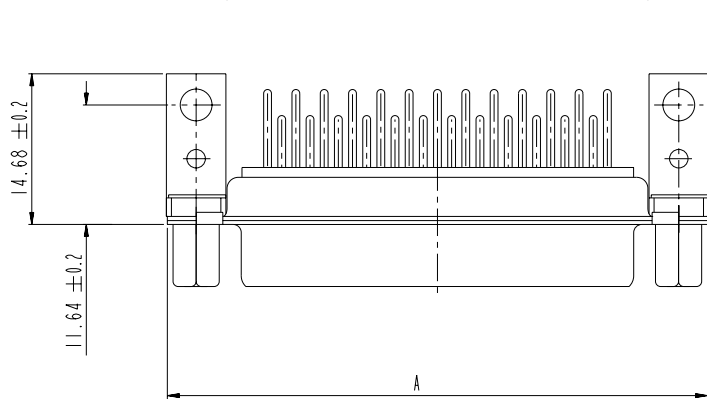
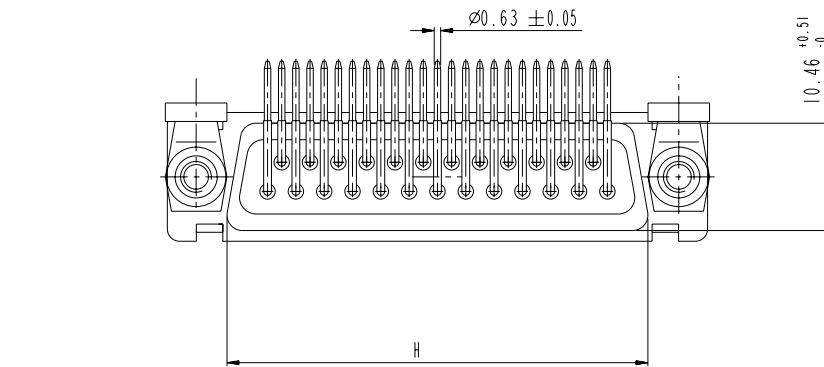
SCALE: 3

|                                                                                       |          |            |                                                                                          |        |       |                                                                                                     |               |                                                                                             |           |  |
|---------------------------------------------------------------------------------------|----------|------------|------------------------------------------------------------------------------------------|--------|-------|-----------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------|-----------|--|
| www.fciconnect.com                                                                    |          |            | surface - <input checked="" type="checkbox"/> tolerance std<br>ISO 1302 ISO 406 ISO 1101 |        |       | projection<br> |               | mm<br> |           |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED                                                 |          |            |                                                                                          |        |       |                                                                                                     |               |                                                                                             |           |  |
| Dr                                                                                    | M PESSON | 2006/11/14 | ANGULAR                                                                                  | LINEAR | 0.X   | ±0.3                                                                                                | size<br>A2    | Scale<br>2:1                                                                                |           |  |
| Eng                                                                                   | P LEGARE | 2006/11/14 |                                                                                          |        | 0.XX  | ±0.1                                                                                                |               |                                                                                             |           |  |
| Chr                                                                                   | P LEGARE | 2006/11/14 |                                                                                          |        | 0.XXX | ±0.05                                                                                               |               |                                                                                             |           |  |
| Appr                                                                                  | P LEGARE | 2006/11/14 | Product family                                                                           |        |       | ECN LS08-0014<br>Spec ref                                                                           |               |                                                                                             |           |  |
|  |          |            | SUB FEMALE DM HE501 series<br>with right angle contact                                   |        |       |                                                                                                     | C01-8637-1736 |                                                                                             | Rev.<br>B |  |
| catalog no                                                                            |          |            | CUSTOMER                                                                                 |        |       | sheet 4 of 9                                                                                        |               |                                                                                             |           |  |

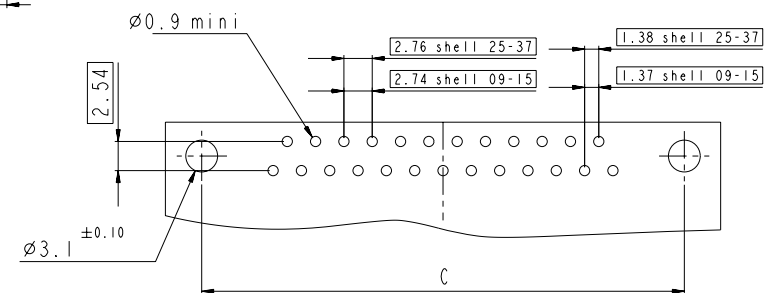
# DIMENSION FOR SHELL E,A,B,C WITH METAL BRACKET

Dimensions are in millimeters

| Shell size | Number of contacts | A <sup>+0.76</sup> <sub>-0</sub> | B <sup>+0.25</sup> <sub>-0</sub> | C $\pm 0.12$ | F <sup>+0.57</sup> <sub>-0</sub> | G <sup>+0.25</sup> <sub>-0</sub> | H <sup>+0.51</sup> <sub>-0</sub> |
|------------|--------------------|----------------------------------|----------------------------------|--------------|----------------------------------|----------------------------------|----------------------------------|
| E          | 09                 | 30.43                            | 16.21                            | 24.99        | 10.64                            | 6.05                             | 19.02                            |
| A          | 15                 | 38.76                            | 24.54                            | 33.32        | 10.64                            | 6.05                             | 27.25                            |
| B          | 25                 | 52.65                            | 38.25                            | 47.04        | 10.64                            | 6.05                             | 41.02                            |
| C          | 37                 | 68.94                            | 54.71                            | 63.50        | 10.64                            | 6.05                             | 57.45                            |

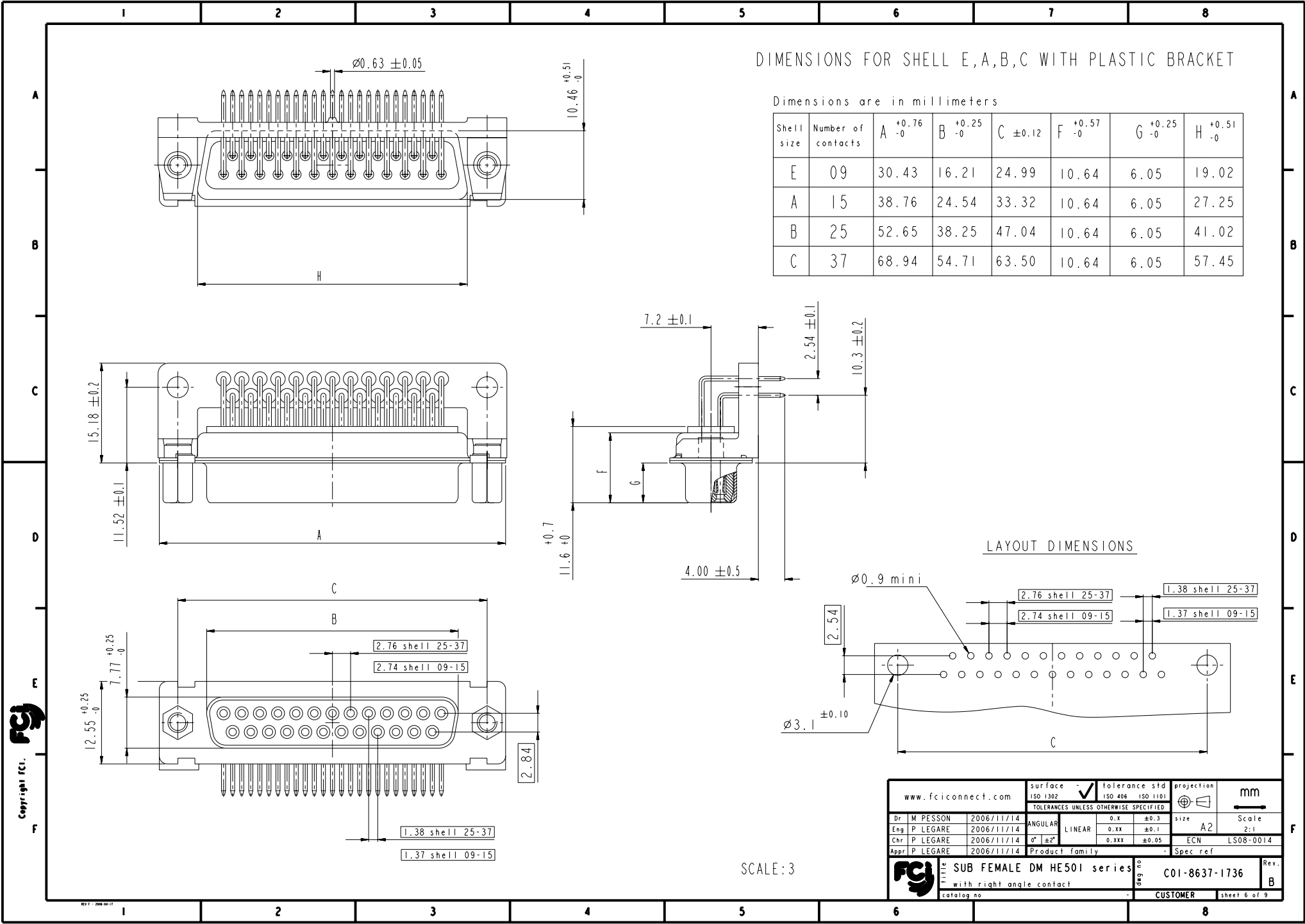


## LAYOUT DIMENSIONS

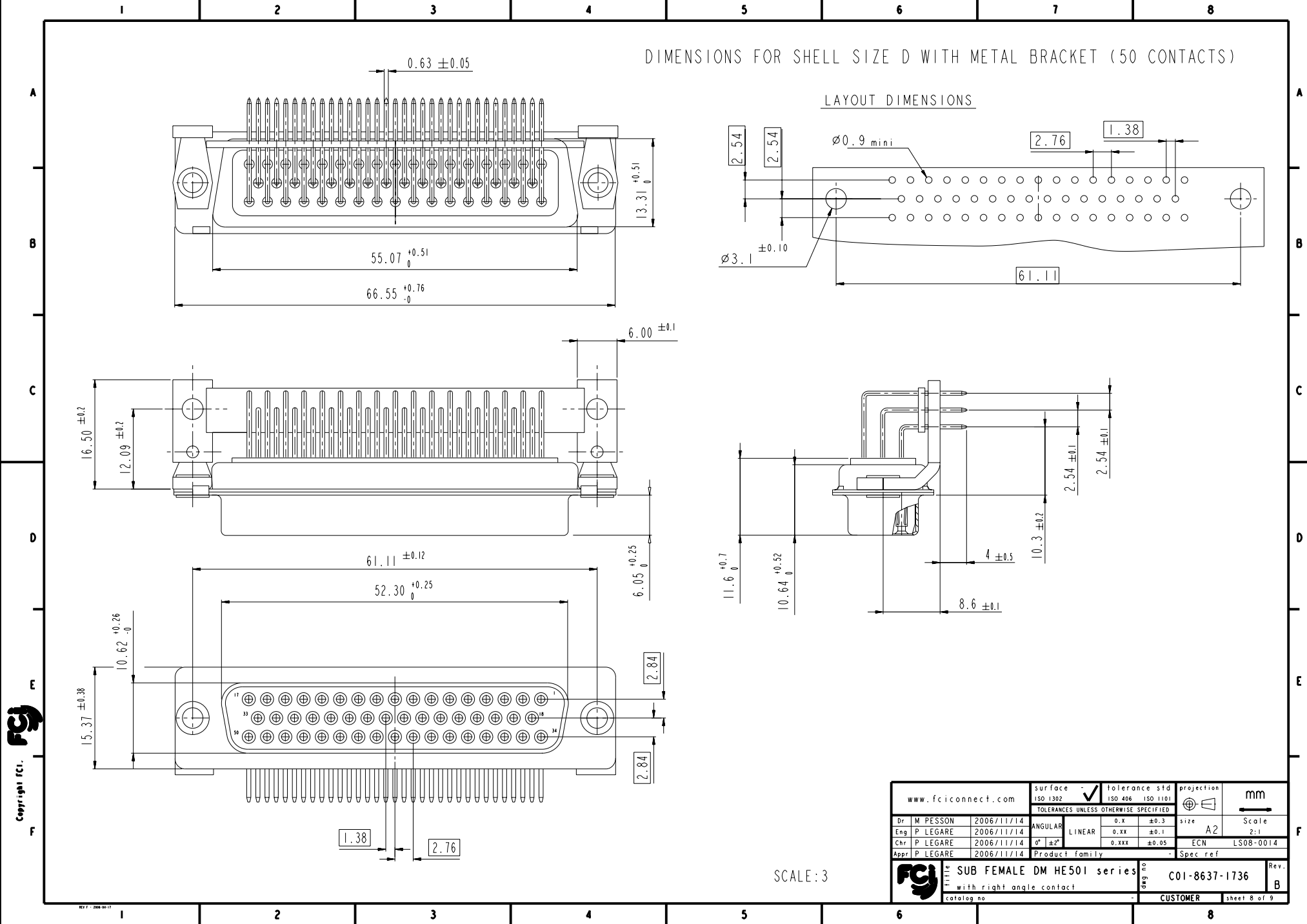


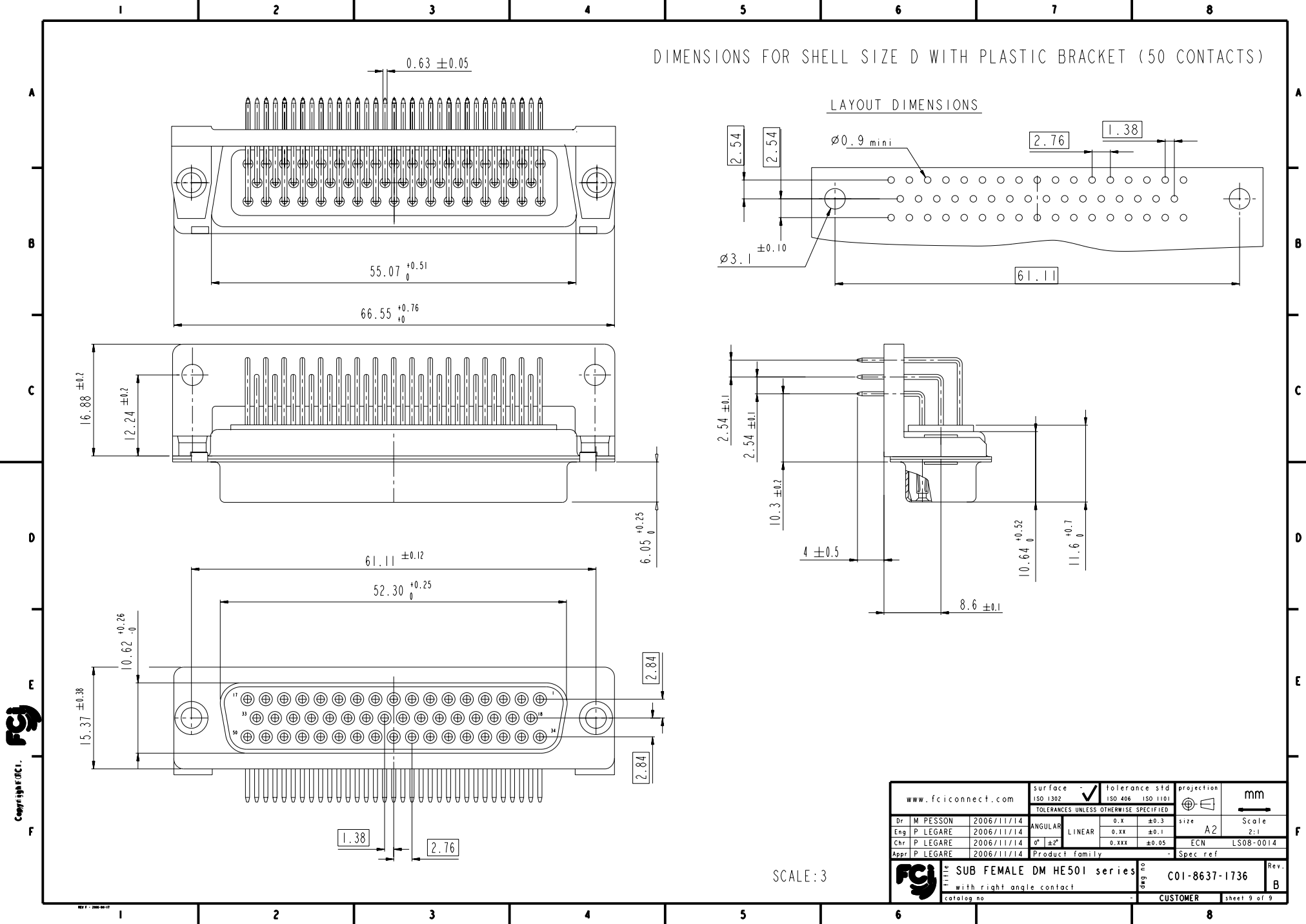
SCALE: 3

|                            |          |                                       |                |               |       |
|----------------------------|----------|---------------------------------------|----------------|---------------|-------|
| www.fciconnect.com         |          | surface -                             | tolerance std  | projection    | mm    |
|                            |          | ISO 1302                              | ISO 406        | ISO 1101      |       |
|                            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |                |               |       |
| Dr                         | M PESSON | 2006/11/14                            | ANGULAR        | 0.X           | ±0.3  |
| Eng                        | P LEGARE | 2006/11/14                            | LINEAR         | 0.XX          | ±0.1  |
| Chr                        | P LEGARE | 2006/11/14                            | 0° ± 2°        | 0.XXX         | ±0.05 |
| Appr                       | P LEGARE | 2006/11/14                            | Product family | Spec ref      |       |
| SUB FEMALE DM HE501 series |          | deg no                                |                | C01-8637-1736 |       |
| with right angle contact   |          | REV.                                  |                | B             |       |
| catalog no                 |          | CUSTOMER                              |                | sheet 5 of 9  |       |



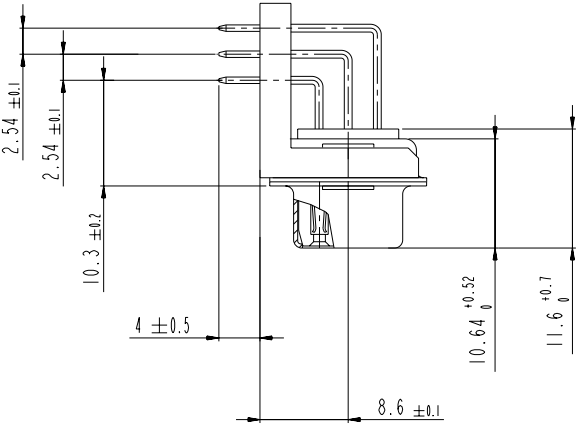
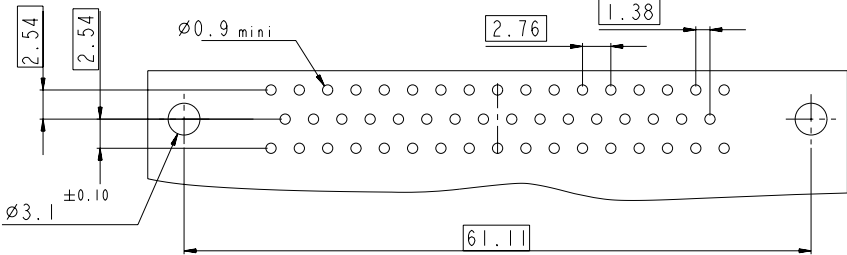






DIMENSIONS FOR SHELL SIZE D WITH PLASTIC BRACKET (50 CONTACTS)

LAYOUT DIMENSIONS



SCALE:3

|                            |          |                                       |                |               |         |          |            |           |
|----------------------------|----------|---------------------------------------|----------------|---------------|---------|----------|------------|-----------|
| www.fciconnect.com         |          | surface                               | ISO 1302       | tolerance std | ISO 406 | ISO 1101 | projection | mm        |
|                            |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |                |               |         |          | size       | Scale     |
| Dr                         | M PESSON | 2006/11/14                            | ANGULAR        | 0.X           | ±0.3    |          | A2         | 2:1       |
| Eng                        | P LEGARE | 2006/11/14                            | LINEAR         | 0.XX          | ±0.1    |          | ECN        | LS08-0014 |
| Chr                        | P LEGARE | 2006/11/14                            | 0° ±2°         | 0.XXX         | ±0.05   |          | Spec ref   |           |
| Appr                       | P LEGARE | 2006/11/14                            | Product family |               |         |          |            |           |
| SUB FEMALE DM HE501 series |          | with right angle contact              |                | C01-8637-1736 |         | Rev. B   |            |           |
| catalog no                 |          | CUSTOMER                              |                | sheet 9 of 9  |         |          |            |           |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.