

## REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

## PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC UL94V0

-CONTACT MATERIAL: PHOSPHOR BRONZE ( signal contact )  
GOLD OVER NICKEL

-ACCESSORIES: STAINLESS STEEL or BRASS  
Cadmium plated, yellow passivation

-SHELLS: STEEL  
Cadmium plated, yellow passivation

## ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 7.5A

-CONTACT RESISTANCE: <= 7.3 m ohms signal

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

## ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/21

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 minimum  
- Female screw : 0.5 N.m minimum

Series

# DBML13W3S043N

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

**M** :characteristic  
for the DM series

Front accessory definition  
see sheet 2

**Blank** :without accessory

**O** :threaded insert M3

**L** :threaded insert UNC 4-40

**V** :female screw UNC 4-40

**F** :floating mounting

Layout of contacts

Contacts

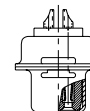
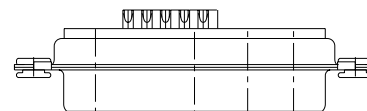
**S** :Socket

Plating

**Blank** solder bucket 500 matings/unmatings

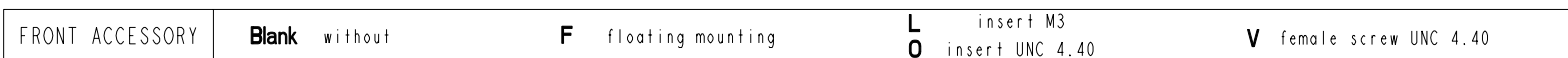
**043** solder bucket 500 matings/unmatings for harsh environment

**N** :obligatory indication for HE 507 series



13W3 FOR EXAMPLE

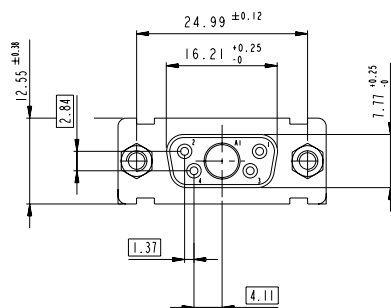
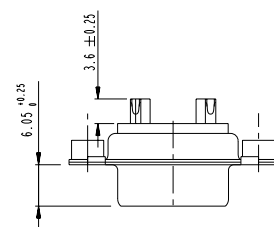
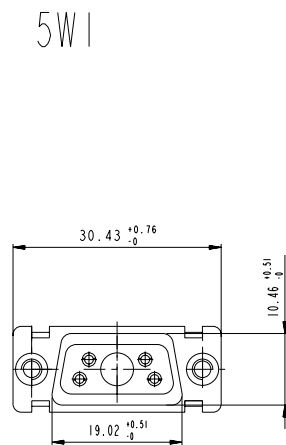
|                                                                                       |   |        |            |                                                                                          |  |       |                                                                                       |          |                                                                                          |               |  |
|---------------------------------------------------------------------------------------|---|--------|------------|------------------------------------------------------------------------------------------|--|-------|---------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------|---------------|--|
| www.fciconnect.com                                                                    |   |        |            | surface - <input checked="" type="checkbox"/> tolerance std<br>ISO 1302 ISO 406 ISO 1101 |  |       |  |          |  mm |               |  |
|                                                                                       |   |        |            | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                    |  |       |                                                                                       |          |                                                                                          |               |  |
| Dr                                                                                    | M | PESSON | 2006/11/15 | ANGULAR                                                                                  |  | 0.X   | ±0.3                                                                                  | size     | A2                                                                                       | Scale         |  |
| Eng                                                                                   | P | LEGARE | 2006/11/15 | LINEAR                                                                                   |  | 0.XX  | ±0.1                                                                                  | 2:1      |                                                                                          |               |  |
| Chr                                                                                   | P | LEGARE | 2006/11/15 | 0° ±2°                                                                                   |  | 0.XXX | ±0.05                                                                                 | ECN      | LS07-0309                                                                                |               |  |
| Appr                                                                                  | P | LEGARE | 2006/11/15 | Product family                                                                           |  |       |                                                                                       |          |                                                                                          | - Spec ref    |  |
|  |   |        |            | SUB FEMALE DMW                                                                           |  |       |                                                                                       | deg no   |                                                                                          | C01-8637-1753 |  |
|                                                                                       |   |        |            | mixed power+solder bucket                                                                |  |       |                                                                                       |          |                                                                                          | Rev           |  |
|                                                                                       |   |        |            | catalog no                                                                               |  |       |                                                                                       | CUSTOMER |                                                                                          | C             |  |
|                                                                                       |   |        |            |                                                                                          |  |       |                                                                                       |          |                                                                                          | sheet 1 of 7  |  |



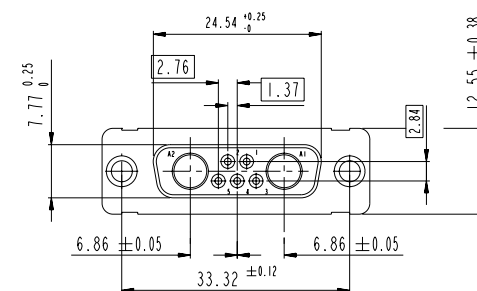
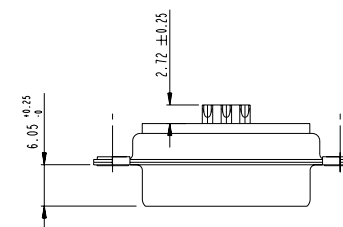
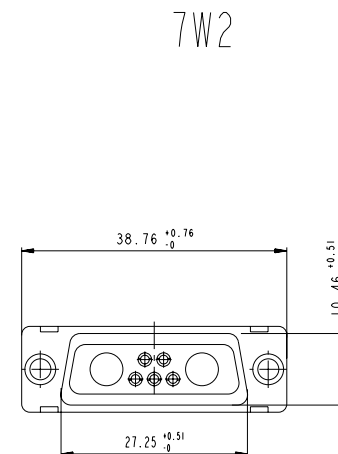
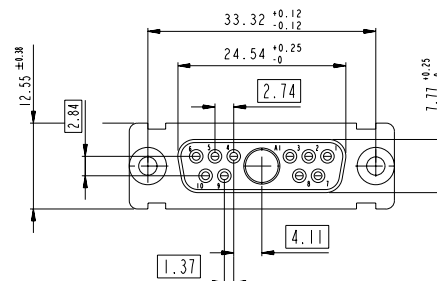
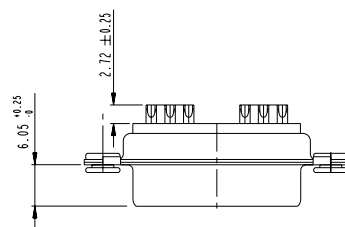
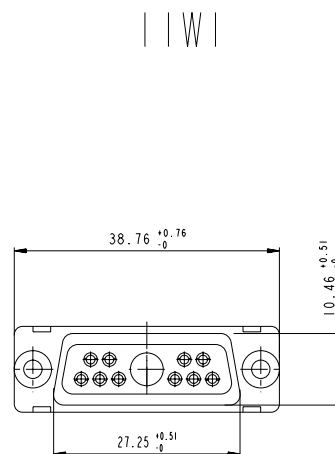
| PART NUMBER  | FRONT ACCESSORY   |
|--------------|-------------------|
| D*MxWxSN     | without           |
| D*MFxWxSN    | Floating mounting |
| D*MLxWxSN    | insert M3         |
| D*MOxWxSN    | insert UNC 4.40   |
| D*MVxWxSN    | female screw      |
|              |                   |
| D*MxWxS043N  | without           |
| D*MFxWxS043N | Floating mounting |
| D*MLxWxS043N | insert M3         |
| D*MOxWxS03N  | insert UNC 4.40   |
| D*MVxWxS043N | female screw      |
|              |                   |

| * | xWx   |
|---|-------|
| E | 5W1   |
| A | 11W1  |
| A | 7W2   |
| B | 21W1  |
| B | 17W2  |
| B | 13W3  |
| B | 9W4   |
| C | 25W3  |
| C | 21WA4 |
| C | 27W2  |
| D | 47W1  |
| D | 24W7  |
| D | 36W4  |

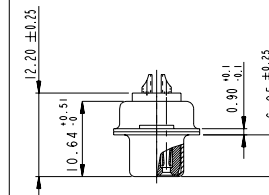
|                                                                                                                                                 |   |        |                                                                                                                                 |                                            |                                                     |                                                                                                     |    |       |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---|--------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------|----|-------|-----|
| www.fciconnect.com                                                                                                                              |   |        | surface <input checked="" type="checkbox"/> tolerance std<br>150 1302 150 406 150 1101<br>TOLERANCES UNLESS OTHERWISE SPECIFIED |                                            |                                                     | projection<br> |    | mm    |     |
| Dr                                                                                                                                              | M | PESSON | 2006/11/15                                                                                                                      | ANGULAR<br>LINEAR<br>$0^\circ \pm 2^\circ$ | 0.X $\pm 0.3$<br>0.XX $\pm 0.1$<br>0.XXX $\pm 0.05$ | size                                                                                                | A2 | Scale | 2:1 |
| Eng                                                                                                                                             | P | LEGARE | 2006/11/15                                                                                                                      |                                            | ECN                                                 | LS07-0309                                                                                           |    |       |     |
| Chr                                                                                                                                             | P | LEGARE | 2006/11/15                                                                                                                      |                                            | Spec ref                                            |                                                                                                     |    |       |     |
| Appr                                                                                                                                            | P | LEGARE | 2006/11/15                                                                                                                      | Product family                             |                                                     |                                                                                                     |    |       |     |
|  SUB FEMALE DMW<br>mixed power+solder bucket<br>catalog no |   |        |                                                                                                                                 | day no<br>C01-8637-1753<br>CUSTOMER        |                                                     | Rev.<br>C<br>sheet 2 of 7                                                                           |    |       |     |



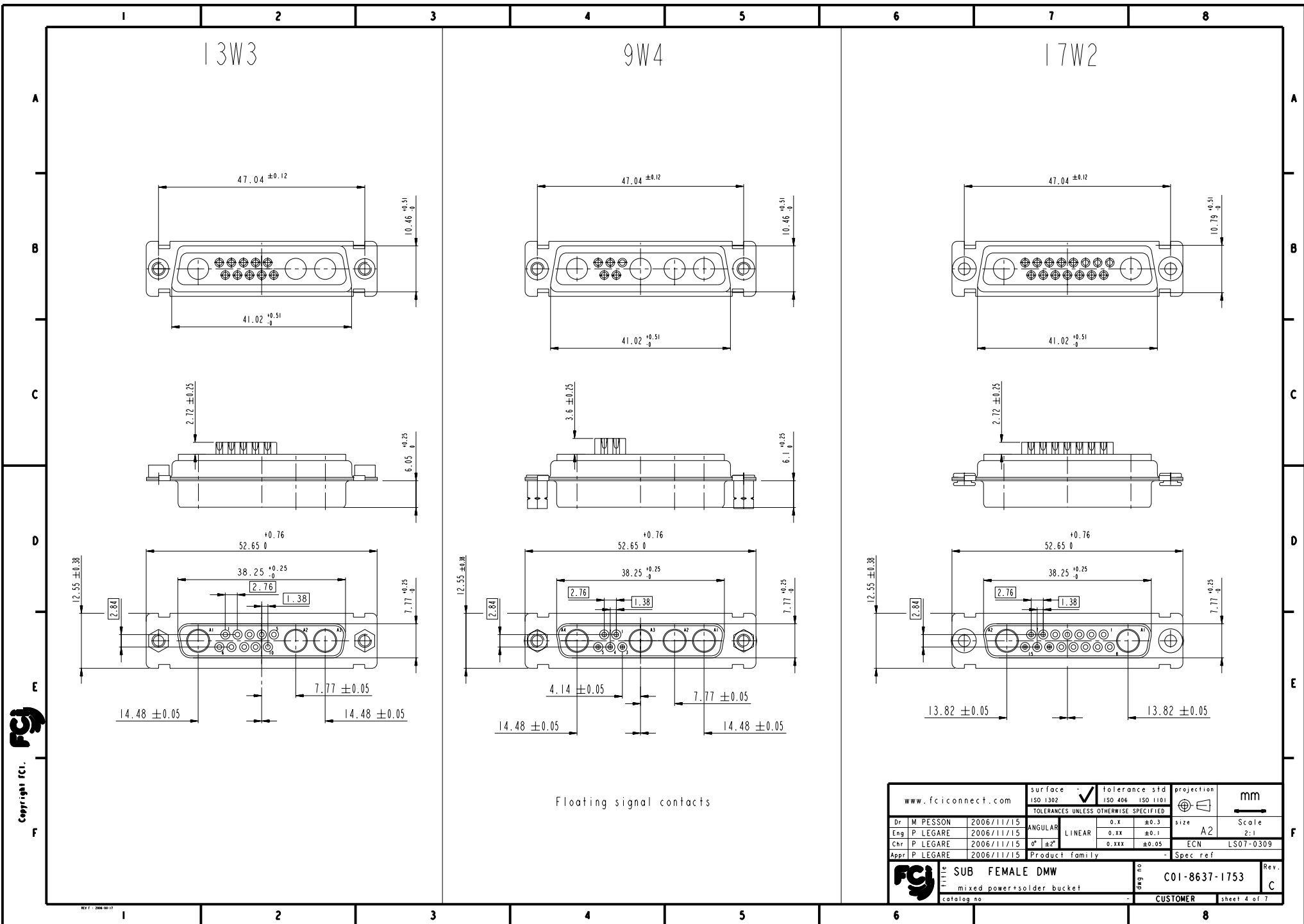
### Floating signal contacts

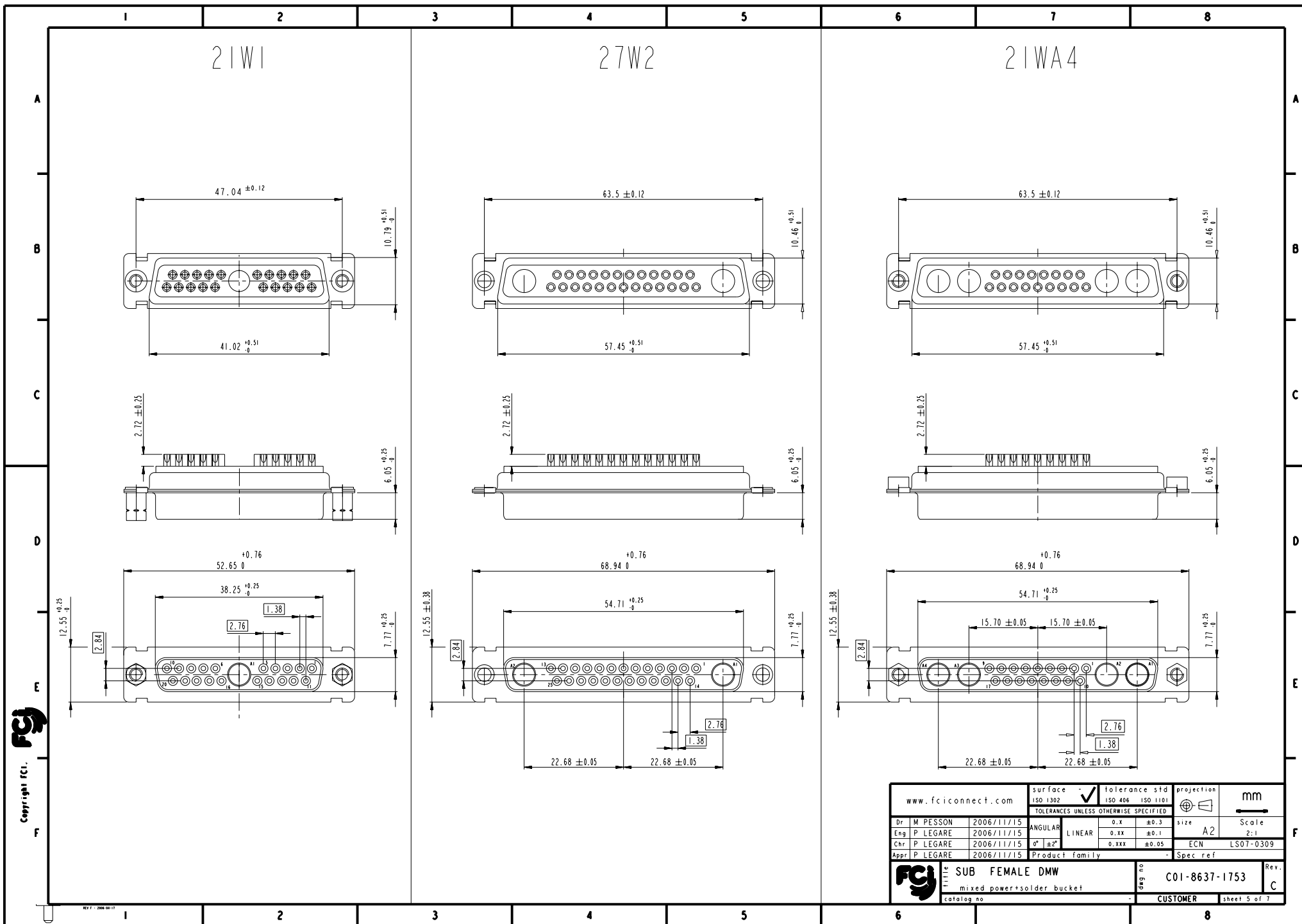


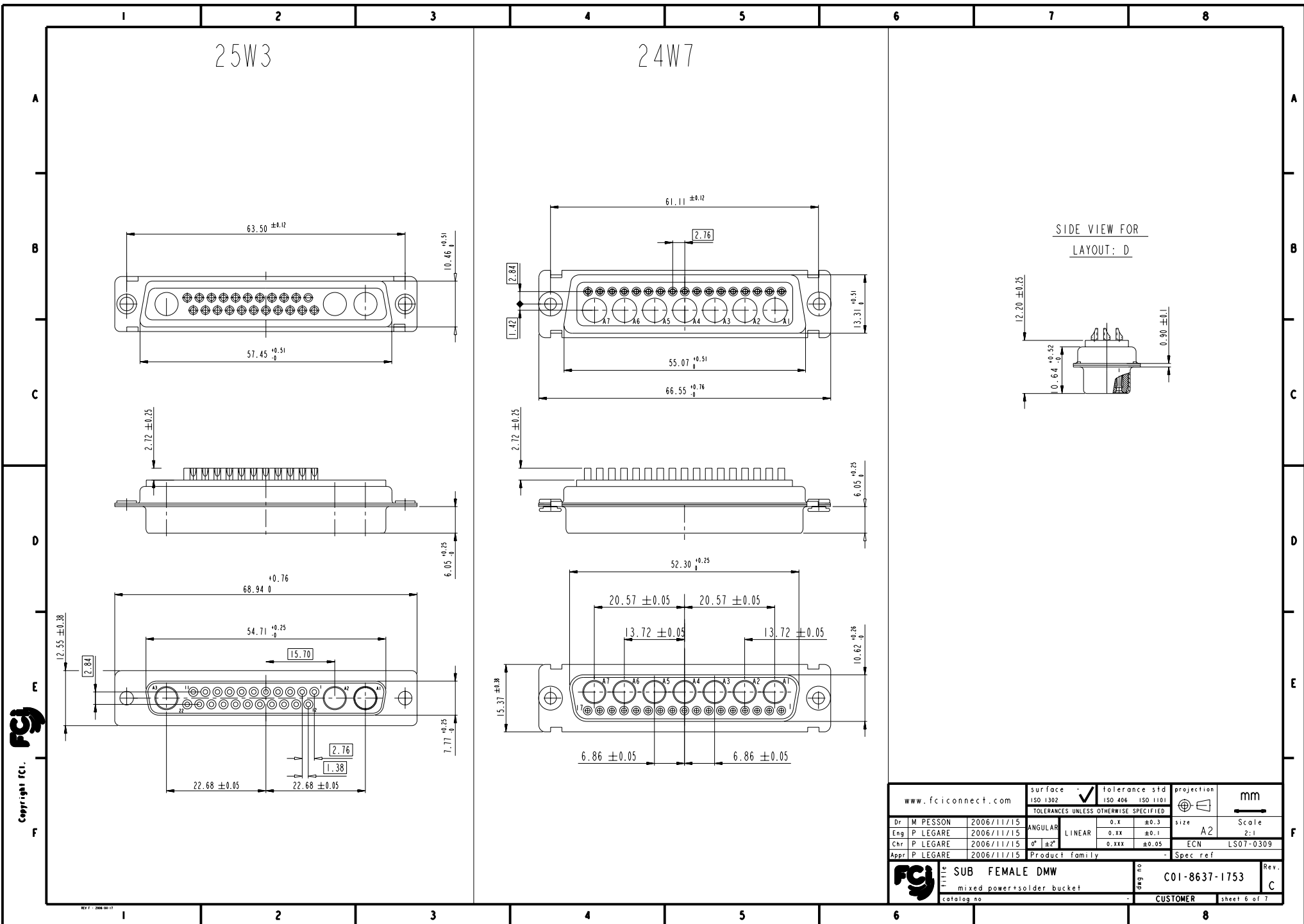
SIDE VIEW FOR  
LAYOUTS: E A B C



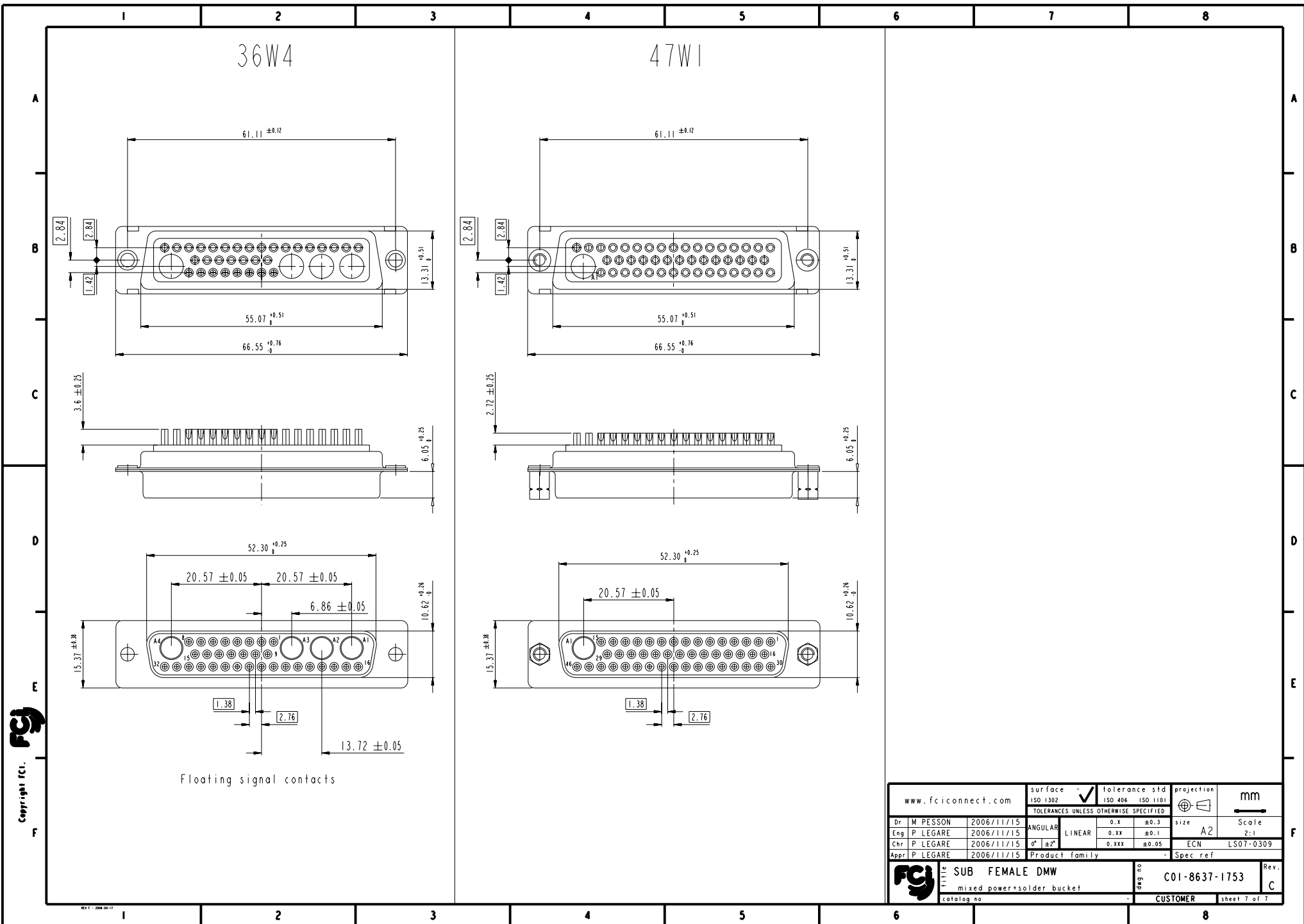
|                                                                                       |          |            |                                                                                        |        |                                                                                                     |                      |                                                                                             |       |
|---------------------------------------------------------------------------------------|----------|------------|----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------|-------|
| www.fciconnect.com                                                                    |          |            | surface <input checked="" type="checkbox"/> tolerance std<br>150 1302 150 406 150 1101 |        | projection<br> |                      | mm<br> |       |
|                                                                                       |          |            | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                  |        |                                                                                                     |                      |                                                                                             |       |
| Dr                                                                                    | M PESSON | 2006/11/15 | ANGULAR                                                                                | LINEAR | 0.X ±0.3                                                                                            | size                 | A2                                                                                          | Scale |
| Eng                                                                                   | P LEGARE | 2006/11/15 |                                                                                        |        | 0.XX ±0.1                                                                                           |                      |                                                                                             | 2:1   |
| Chr                                                                                   | P LEGARE | 2006/11/15 | 0° ±2°                                                                                 |        | 0.XXX ±0.05                                                                                         | ECN                  | LS07-0309                                                                                   |       |
| Appr                                                                                  | P LEGARE | 2006/11/15 | Product family                                                                         |        |                                                                                                     | - Spec ref           |                                                                                             |       |
|  |          |            | title SUB FEMALE DMW<br>mixed power+solder bucket                                      |        |                                                                                                     | dag no C01-8637-1753 |                                                                                             | Rev C |
| catalog no                                                                            |          |            | CUSTOMER                                                                               |        |                                                                                                     | sheet 3 of 7         |                                                                                             |       |







|                    |          |                                       |                |              |               |
|--------------------|----------|---------------------------------------|----------------|--------------|---------------|
| www.fciconnect.com |          | surface -                             | tolerance std  | projection   | mm            |
|                    |          | ISO 1302                              | ISO 406        | ISO 1101     |               |
|                    |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |                |              |               |
| Dr                 | M PESSON | 2006/11/15                            | ANGULAR        | 0.X          | ±0.3          |
| Eng                | P LEGARE | 2006/11/15                            | LINEAR         | 0.XX         | ±0.1          |
| Chr                | P LEGARE | 2006/11/15                            | 0° ±2°         | 0.XXX        | ±0.05         |
| Appr               | P LEGARE | 2006/11/15                            | Product family | Spec ref     |               |
| <b>FCI</b>         |          | SUB FEMALE DMW                        |                | cat no       | C01-8637-1753 |
|                    |          | mixed power+solder bucket             |                | Rev.         | C             |
|                    |          | CUSTOMER                              |                | sheet 6 of 7 |               |



|                                                                                       |          |            |                                                        |       |       |                                                                                                     |           |                                                                                             |     |
|---------------------------------------------------------------------------------------|----------|------------|--------------------------------------------------------|-------|-------|-----------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------|-----|
| www.fciconnect.com                                                                    |          |            | surface - ✓ tolerance std<br>ISO 1302 ISO 406 ISO 1101 |       |       | projection<br> |           | mm<br> |     |
| TOLERANCES UNLESS OTHERWISE SPECIFIED                                                 |          |            |                                                        |       |       |                                                                                                     |           |                                                                                             |     |
| Dr                                                                                    | M PESSON | 2006/11/15 | ANGULAR                                                | 0.X   | ±0.3  | size                                                                                                | A2        | Scale                                                                                       | 2:1 |
| Eng                                                                                   | P LEGARE | 2006/11/15 | LINEAR                                                 | 0.XX  | ±0.1  | ECN                                                                                                 | LS07-0309 |                                                                                             |     |
| Chr                                                                                   | P LEGARE | 2006/11/15 | 0° ±2°                                                 | 0.XXX | ±0.05 | Product family                                                                                      | -         | Spec ref                                                                                    |     |
| Appr                                                                                  | P LEGARE | 2006/11/15 |                                                        |       |       |                                                                                                     |           |                                                                                             |     |
|  |          |            | SUB FEMALE DMW                                         |       |       | C01-8637-1753                                                                                       |           | Rev. C                                                                                      |     |
| mixed power+solder bucket                                                             |          |            | -                                                      |       |       | CUSTOMER                                                                                            |           | sheet 7 of 7                                                                                |     |
| catalog no                                                                            |          |            | -                                                      |       |       |                                                                                                     |           |                                                                                             |     |