

## 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

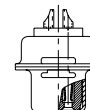
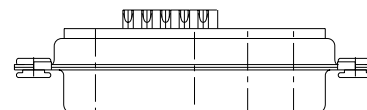
**S** :Socket

Plating

**Blank** solder bucket 500 matings/unmatings

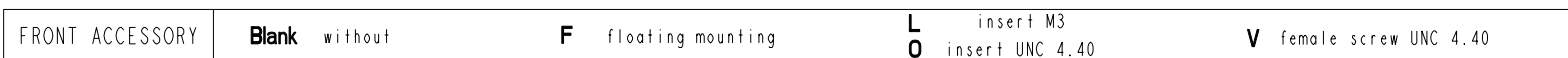
**043** solder bucket 500 matings/unmatings for harsh environment

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



13W3 FOR EXAMPLE

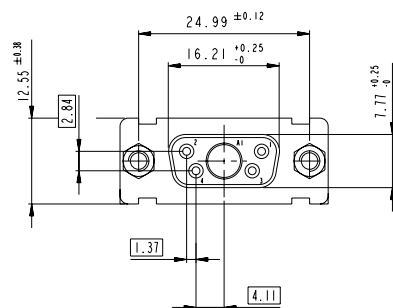
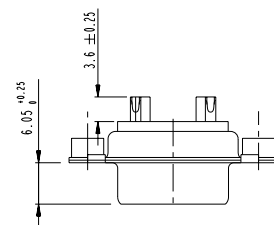
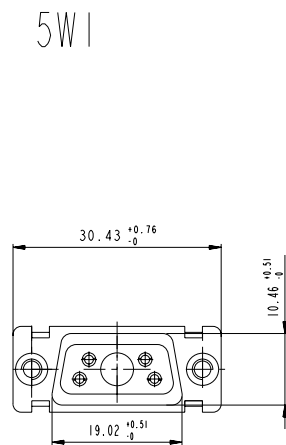
|                                                                                       |  |  |  |                                                                                                                                 |  |             |                                                                                                     |                      |                                                                                             |              |  |
|---------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------|--|-------------|-----------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------|--------------|--|
| www.fciconnect.com                                                                    |  |  |  | surface <input checked="" type="checkbox"/> tolerance std<br>ISO 1302 ISO 406 ISO 1101<br>TOLERANCES UNLESS OTHERWISE SPECIFIED |  |             | projection<br> |                      | mm<br> |              |  |
| 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   |                                                                                                     |                      |                                                                                             |              |  |
| 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 |                                                                                             | Rev C        |  |
|                                                                                       |  |  |  | mixed power+solder bucket                                                                                                       |  |             |                                                                                                     |                      |                                                                                             |              |  |
|                                                                                       |  |  |  | catalog no                                                                                                                      |  |             |                                                                                                     | CUSTOMER             |                                                                                             | sheet 1 of 7 |  |
|                                                                                       |  |  |  |                                                                                                                                 |  |             |                                                                                                     |                      |                                                                                             |              |  |



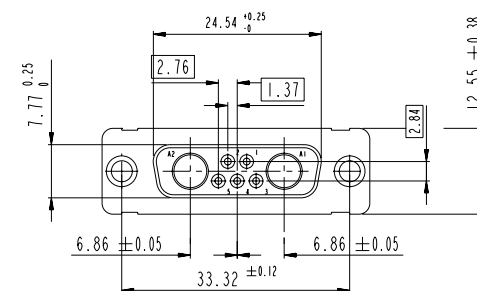
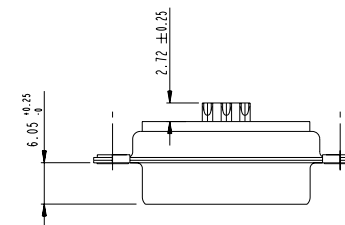
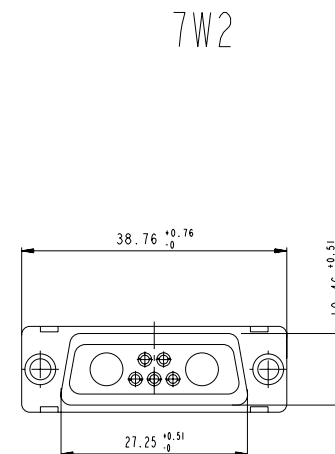
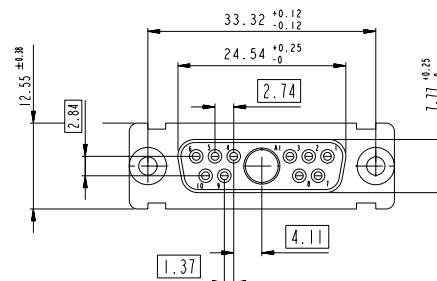
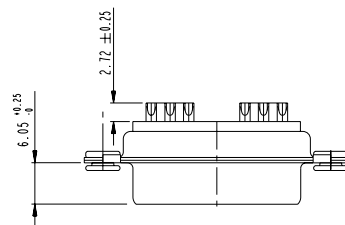
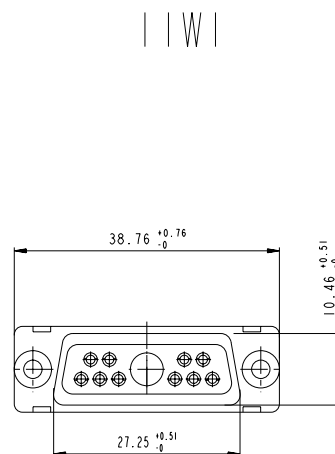
| PART NUMBER  | FRONT ACCESSORY   |
|--------------|-------------------|
| D*MxWxSN     | without           |
| D*MFxWxSN    | Floating mounting |
| D*MLxWxSN    | insert M3         |
| D*MOxWxSN    | insert UNC 4.40   |
| D*MVxWxSN    | female screw      |
|              |                   |
| D*MxWxS043N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

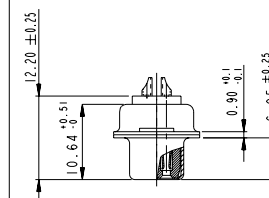
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|---------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------|------------|--------------|
| 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<br>A2 | Scale<br>2:1 |
| Eng                                                                                   | P LEGARE | 2006/11/15                                                                             |                                                                   |                                                                                                     | 0.XX  | ±0.1                                                                                        |            |              |
| 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<br>catalog no - |                                                                                                     |       | dwg no C01-8637-1753<br>CUSTOMER                                                            |            | Rev.<br>C    |
|                                                                                       |          |                                                                                        |                                                                   |                                                                                                     |       | sheet 2 of 7                                                                                |            |              |



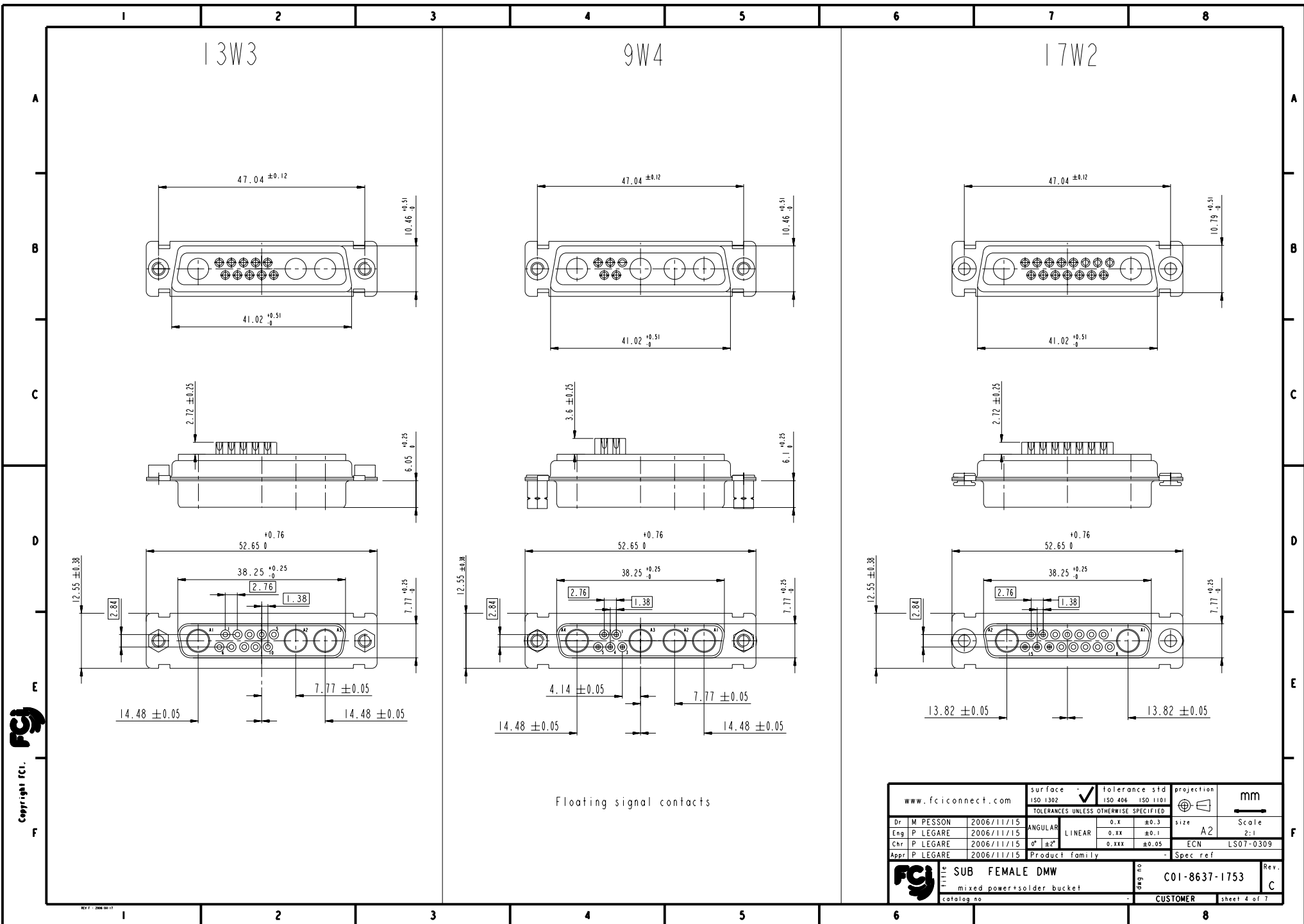
### Floating signal contacts

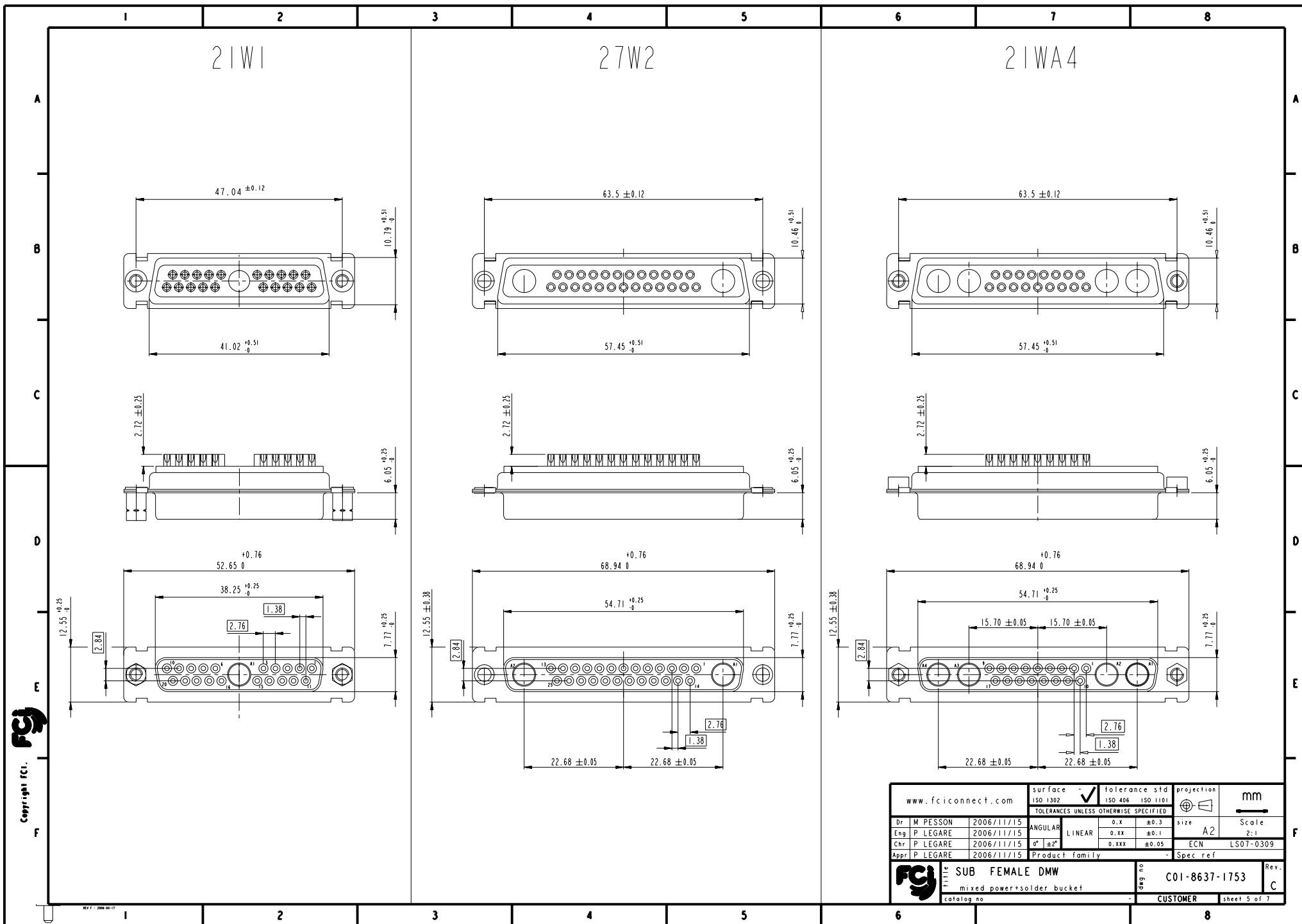


SIDE VIEW FOR  
LAYOUTS: E A B C



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

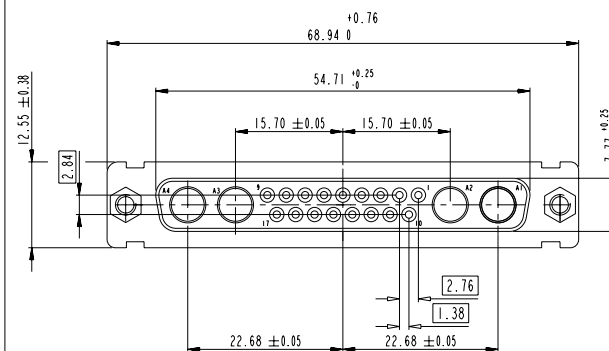
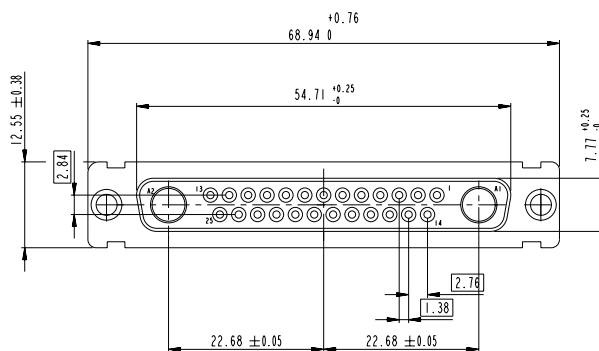
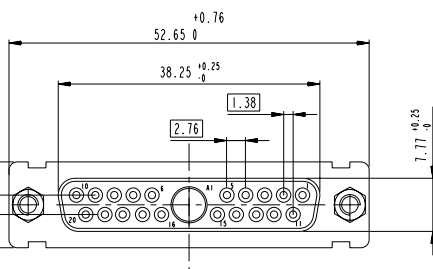
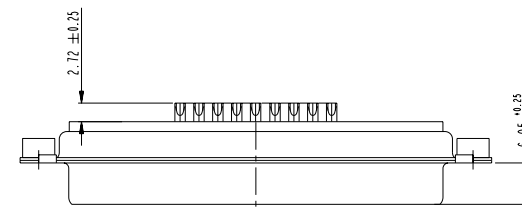
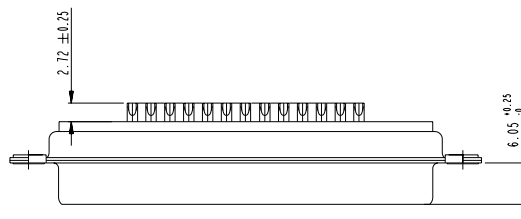
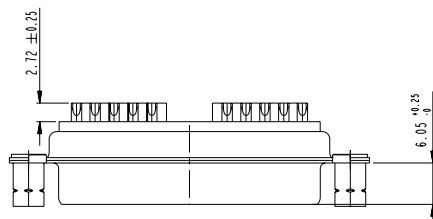
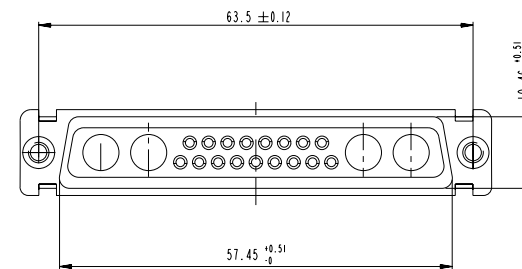
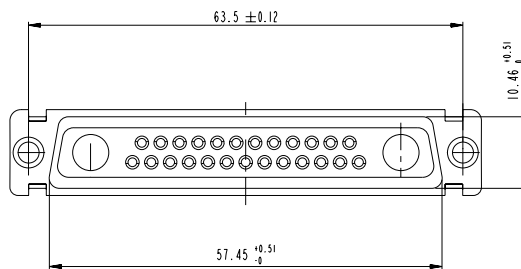
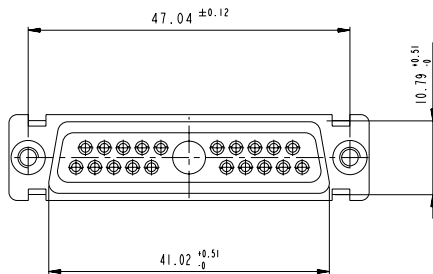




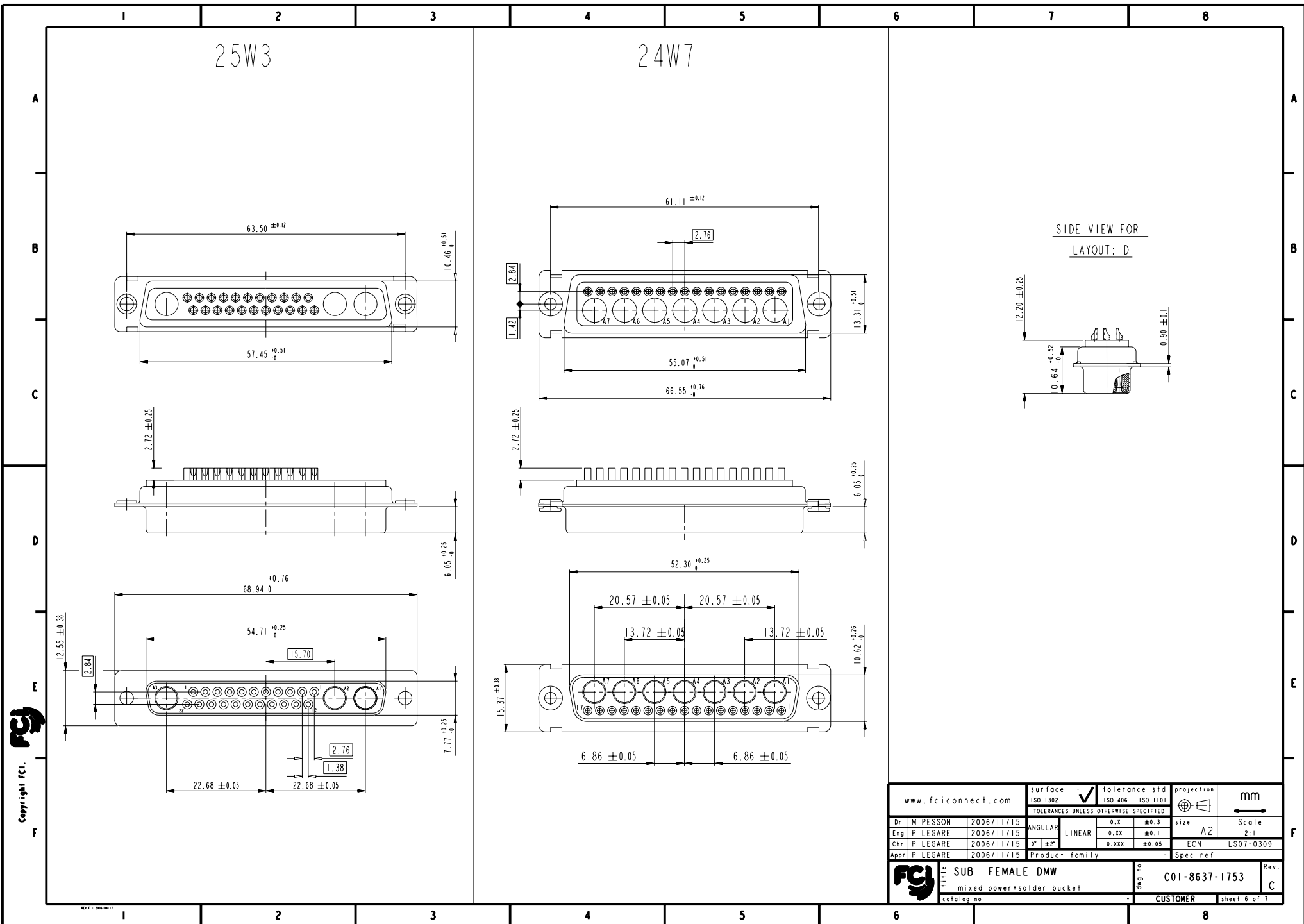
21W1

27W2

21WA4



|                    |          |                                       |                  |               |       |
|--------------------|----------|---------------------------------------|------------------|---------------|-------|
| 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    |       |
| SUB FEMALE DMW     |          | mixed power+solder bucket             |                  | C01-8637-1753 |       |
| catalog no         |          | CUSTOMER                              |                  | sheet 5 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 |          |
| SUB FEMALE DMW     |          | mixed power+solder bucket             |                  | catlog no  | CUSTOMER |
| Title              |          | SUB FEMALE DMW                        |                  | Rev.       | C        |
| C01-8637-1753      |          | sheet 6 of 7                          |                  |            |          |

