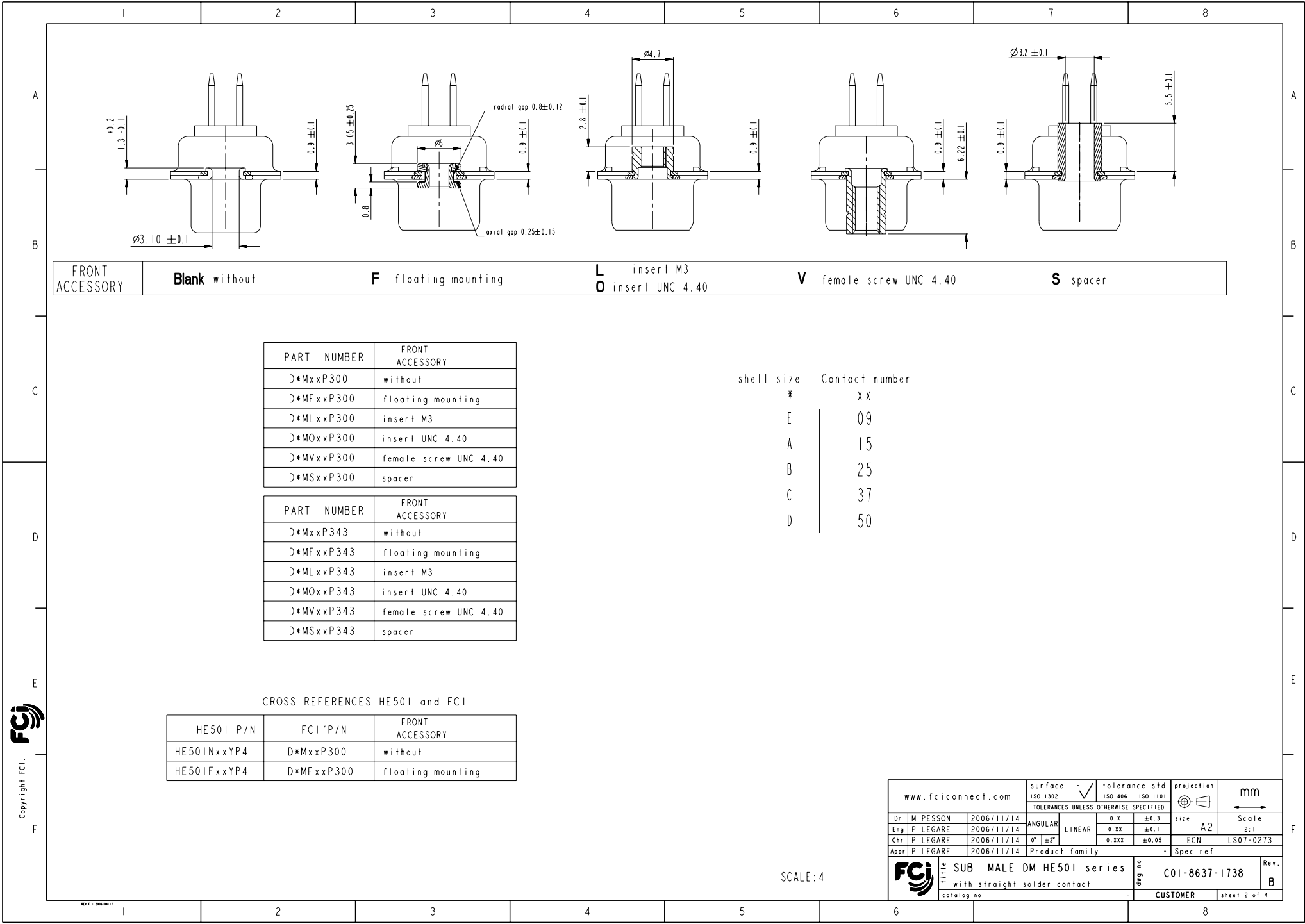
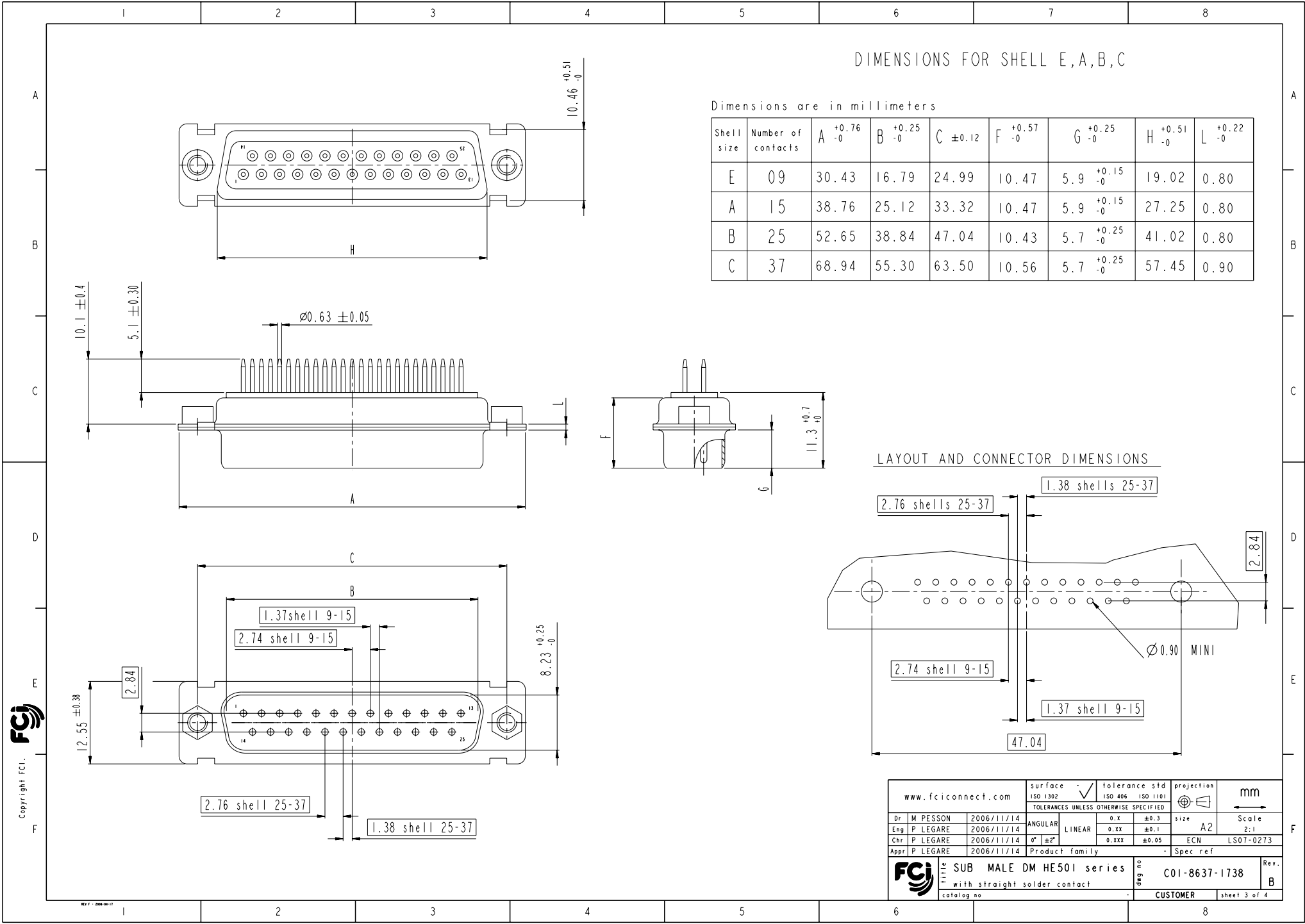


|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |            |             |        |               |            |           |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-------------|--------|---------------|------------|-----------|------|----|----------|------------|---------|---|---------------|------------|----|---|-----------|-----|------------|-----|----------|------------|---------|---|----------|------|-------|---|-----------|-----|------------|-----|----------|------------|--------|--------|-----------|----|-----|---|---|---|---|------|----------|------------|-------------|---|-----------|-----|-----------|---|---|---|---|---|---|---|---|---|---|----------|---|----------|--------------|---|
|          | I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2   | 3          | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5        | 6          | 7           | 8      |               |            |           |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| A        | <p>REFERENCE SPECIFICATIONS</p> <p>-NFC 93425 (in compliance with HE 501)</p> <p>PHYSICAL CHARACTERISTICS</p> <p>-INSULATOR MATERIAL: THERMOPLASTIC UL94V0</p> <p>-CONTACT MATERIAL: BRASS</p> <p>GOLD OVER NICKEL</p> <p>-ACCESSORIES: BRASS,cadmium plated yellow passivation</p> <p>-SHELLS: STEEL,cadmium plated yellow passivation</p> <p>ELECTRICAL CHARACTERISTICS</p> <p>-NOMINAL CURRENT: 7.5A</p> <p>-CONTACT RESISTANCE: &lt;= 7.3 m ohms</p> <p>-CONTACT/CONTACT : &gt;=1000 V</p> <p>-CONTACT/GROUND : &gt;=1200 V</p> <p>-INSULATION RESISTANCE: &gt;=5000 MOhms</p> <p>ENVIRONMENTAL CHARACTERISTICS</p> <p>- CLIMATIC CATEGORY: 55/125/56</p> <p>TEMPERATURE RANGE -55°C TO +125°C</p> <p>DAMP HEAT STEADY STATE 56 DAYS</p> <p>SALT SPRAY 48 HOURS</p> <p>MECHANICAL CHARACTERISTICS</p> <p>- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum</p> <p>- Female screw : 0.5 N.m minimum</p> |     |            | <p>Series ← <b>DBML25P300</b></p> <p>Shell size: <b>E A B C D</b> ←<br/>see sheet 2</p> <p>Front accessory definition ←<br/>see sheet 2</p> <p><b>Blank</b> :without accessory</p> <p><b>F</b> :floating mounting</p> <p><b>L</b> :threaded insert M3</p> <p><b>O</b> :threaded insert UNC 4-40</p> <p><b>V</b> :female screw UNC 4-40</p> <p><b>S</b> :spacer</p> <p>Contact number (see sheet 2) ←<br/><b>9,15,25,37,50</b></p> <p>Contacts ←</p> <p><b>P</b> :Pin</p> <p>Termination type ←</p> <p><b>3</b> :Straight version</p> <p>Plating ←</p> <p><b>00</b> : 500 matings/unmatings</p> <p><b>43</b> : 500 matings/unmatings for harsh environment</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |            |             |        | A             |            |           |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| B        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |            |             |        | B             |            |           |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| C        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |            |             |        | C             |            |           |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| D        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |            |             |        | D             |            |           |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| E        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |            |             |        | E             |            |           |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| F        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |            | <div><div></div><div></div></div> <p>25 WAY for Example</p> <table><tr><td>rev</td><td>ecn no</td><td>dr</td><td>date</td><td>Dr</td><td>M PESSON</td><td>2006/11/14</td><td>surface</td><td>-</td><td>tolerance std</td><td>projection</td><td>mm</td></tr><tr><td>A</td><td>LS06-0174</td><td>MPE</td><td>2006/11/14</td><td>Eng</td><td>P LEGARE</td><td>2006/11/14</td><td>ANGULAR</td><td>✓</td><td>ISO 1302</td><td>size</td><td>Scale</td></tr><tr><td>B</td><td>LS07-0273</td><td>MPE</td><td>2007/10/30</td><td>Chr</td><td>P LEGARE</td><td>2006/11/14</td><td>0° ±2°</td><td>LINEAR</td><td>0.XX ±0.1</td><td>A2</td><td>2:1</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td><td>Appr</td><td>P LEGARE</td><td>2006/11/14</td><td>0.XXX ±0.05</td><td>-</td><td>0.XX ±0.1</td><td>ECN</td><td>LS07-0273</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>Spec.ref</td><td>-</td></tr></table> <div><div></div><div><p>SUB MALE DM HE501 series</p><p>with straight solder contact</p><p>catalog no</p></div><div><p>deg no</p><p>C01-8637-1738</p><p>Rev.</p><p>B</p></div></div> <table><tr><td>CUSTOMER</td><td>sheet 1 of 4</td></tr></table> |          |            |             |        | rev           | ecn no     | dr        | date | Dr | M PESSON | 2006/11/14 | surface | - | tolerance std | projection | mm | A | LS06-0174 | MPE | 2006/11/14 | Eng | P LEGARE | 2006/11/14 | ANGULAR | ✓ | ISO 1302 | size | Scale | B | LS07-0273 | MPE | 2007/10/30 | Chr | P LEGARE | 2006/11/14 | 0° ±2° | LINEAR | 0.XX ±0.1 | A2 | 2:1 | - | - | - | - | Appr | P LEGARE | 2006/11/14 | 0.XXX ±0.05 | - | 0.XX ±0.1 | ECN | LS07-0273 | - | - | - | - | - | - | - | - | - | - | Spec.ref | - | CUSTOMER | sheet 1 of 4 | F |
| rev      | ecn no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | dr  | date       | Dr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | M PESSON | 2006/11/14 | surface     | -      | tolerance std | projection | mm        |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| A        | LS06-0174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MPE | 2006/11/14 | Eng                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | P LEGARE | 2006/11/14 | ANGULAR     | ✓      | ISO 1302      | size       | Scale     |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| B        | LS07-0273                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MPE | 2007/10/30 | Chr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | P LEGARE | 2006/11/14 | 0° ±2°      | LINEAR | 0.XX ±0.1     | A2         | 2:1       |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| -        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -   | -          | Appr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | P LEGARE | 2006/11/14 | 0.XXX ±0.05 | -      | 0.XX ±0.1     | ECN        | LS07-0273 |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| -        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -   | -          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | -          | -           | -      | -             | Spec.ref   | -         |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
| CUSTOMER | sheet 1 of 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |            |             |        |               |            |           |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |
|          | I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2   | 3          | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5        | 6          | 7           | 8      |               |            |           |      |    |          |            |         |   |               |            |    |   |           |     |            |     |          |            |         |   |          |      |       |   |           |     |            |     |          |            |        |        |           |    |     |   |   |   |   |      |          |            |             |   |           |     |           |   |   |   |   |   |   |   |   |   |   |          |   |          |              |   |



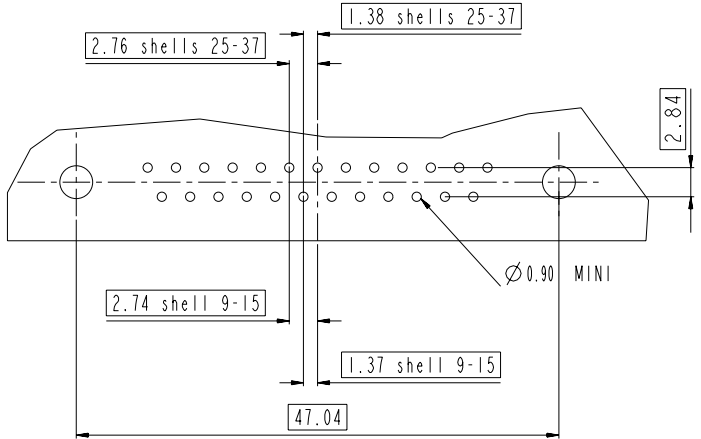


DIMENSIONS FOR SHELL E,A,B,C

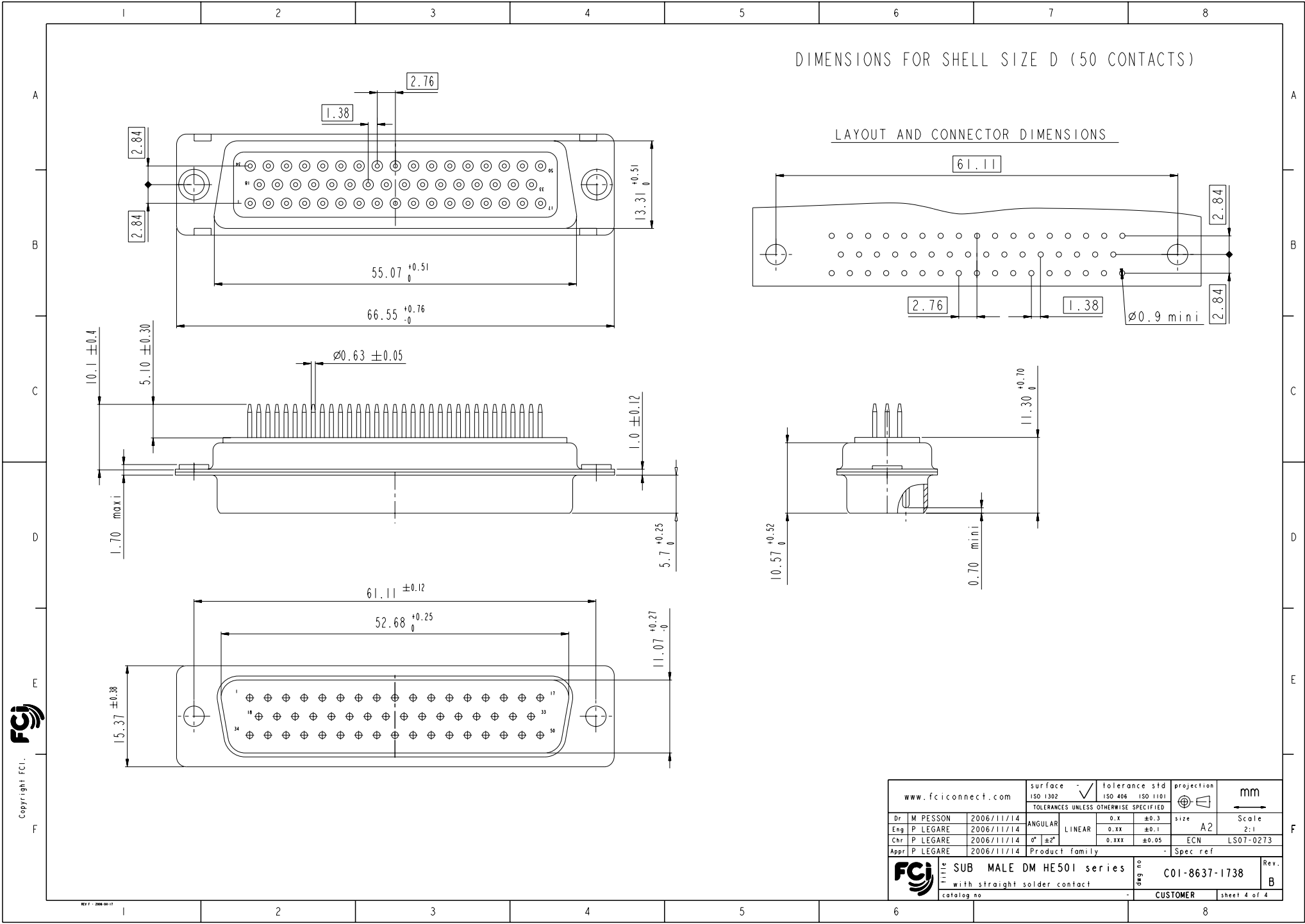
Dimensions are in millimeters

| Shell size | Number of contacts | A <sup>+0.76</sup> <sub>-0</sub> | B <sup>+0.25</sup> <sub>-0</sub> | C <sup>±0.12</sup> | F <sup>+0.57</sup> <sub>-0</sub> | G <sup>+0.25</sup> <sub>-0</sub>   | H <sup>+0.51</sup> <sub>-0</sub> | L <sup>+0.22</sup> <sub>-0</sub> |
|------------|--------------------|----------------------------------|----------------------------------|--------------------|----------------------------------|------------------------------------|----------------------------------|----------------------------------|
| E          | 09                 | 30.43                            | 16.79                            | 24.99              | 10.47                            | 5.9 <sup>+0.15</sup> <sub>-0</sub> | 19.02                            | 0.80                             |
| A          | 15                 | 38.76                            | 25.12                            | 33.32              | 10.47                            | 5.9 <sup>+0.15</sup> <sub>-0</sub> | 27.25                            | 0.80                             |
| B          | 25                 | 52.65                            | 38.84                            | 47.04              | 10.43                            | 5.7 <sup>+0.25</sup> <sub>-0</sub> | 41.02                            | 0.80                             |
| C          | 37                 | 68.94                            | 55.30                            | 63.50              | 10.56                            | 5.7 <sup>+0.25</sup> <sub>-0</sub> | 57.45                            | 0.90                             |

LAYOUT AND CONNECTOR DIMENSIONS



|                          |          |                                       |                |               |         |              |            |           |
|--------------------------|----------|---------------------------------------|----------------|---------------|---------|--------------|------------|-----------|
| 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        | LS07-0273 |
| Chr                      | P LEGARE | 2006/11/14                            | 0° ±2°         | 0.XXX         | ±0.05   |              | Spec ref   |           |
| Appr                     | P LEGARE | 2006/11/14                            | Product family |               |         |              |            |           |
| SUB MALE DM HE501 series |          | with straight solder contact          |                | C01-8637-1738 |         | Rev. B       |            |           |
| catalog no               |          |                                       |                | CUSTOMER      |         | sheet 3 of 4 |            |           |



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|                                                                                       |          |            |                                                                                                                                         |        |                                                                                                  |          |                                                                                          |           |
|---------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------|-----------|
| www.fciconnect.com                                                                    |          |            | surface -  tolerance std ISO 1302 ISO 406 ISO 1101 |        | projection  |          | mm  |           |
|                                                                                       |          |            | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                                                                   |        |                                                                                                  |          |                                                                                          |           |
| Dr                                                                                    | M PESSON | 2006/11/14 | ANGULAR                                                                                                                                 | LINEAR | 0.X                                                                                              | ±0.3     | size                                                                                     | Scale     |
| Eng                                                                                   | P LEGARE | 2006/11/14 |                                                                                                                                         |        | 0.XX                                                                                             | ±0.1     | A2                                                                                       | 2:1       |
| Chr                                                                                   | P LEGARE | 2006/11/14 | 0° ±2°                                                                                                                                  |        | 0.XXX                                                                                            | ±0.05    | ECN                                                                                      | LS07-0273 |
| Appr                                                                                  | P LEGARE | 2006/11/14 | Product family                                                                                                                          |        |                                                                                                  | Spec ref |                                                                                          |           |
|  |          |            | SUB MALE DM HE501 series                                                                                                                |        |                                                                                                  |          | C01-8637-1738                                                                            |           |
|                                                                                       |          |            | with straight solder contact                                                                                                            |        |                                                                                                  |          | Rev. B                                                                                   |           |
| catalog no                                                                            |          |            |                                                                                                                                         |        | CUSTOMER                                                                                         |          | sheet 4 of 4                                                                             |           |