

## REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

## PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC ,UL94V0

-CONTACT MATERIAL: BRASS

-ACCESSORIES: BRASS

-SHELLS: STEEL

## ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 40A

-CONTACT RESISTANCE: <= 7.3 mOhms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

- CLIMATIC CATEGORY: 55/125/21

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 21 DAYS

SALT SPRAY 24 HOURS

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

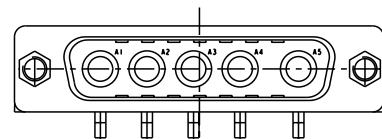
- Female screw : 0.5 N.m minimum

## PRESS FIT PERFORMANCES

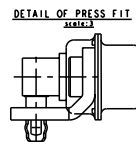
| PRESS FIT CONTACTS     |          |
|------------------------|----------|
| INSERTION FORCE        | <= 200 N |
| Average insertion 160N |          |
| EXTRACTION FORCE       | >= 30 N  |

## NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.
- Termination plating spec:
  - Ni 1.27µm+Sn 0.5 to 1.5µ(pure bright)
- Active area plating spec:
  - Ni + Gold
- Shell plating : 2 to 4µm Cu + Ni + 3 to 10µm Sn(pure bright)
- Accessories: Sn pure bright + nickel
- Packaging spec: See GS-14-920



5W5 FOR EXAMPLE



Series

# DBL5W5P80C5M40LF

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

Front accessory definition  
(see sheet 2)

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

Layout of contacts (see sheet 3)

Contacts

**P** :Pin

Termination type

**80C** Right angle/US foot print

Plating

**5** 200 matings/unmatings

**6** 500 matings/unmatings

PCB accessories definition(see sheet 2)

**M** Metal brackets

**A** Without accessory

Power contacts

**40** :Fitted with power contacts 40 Amp.

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

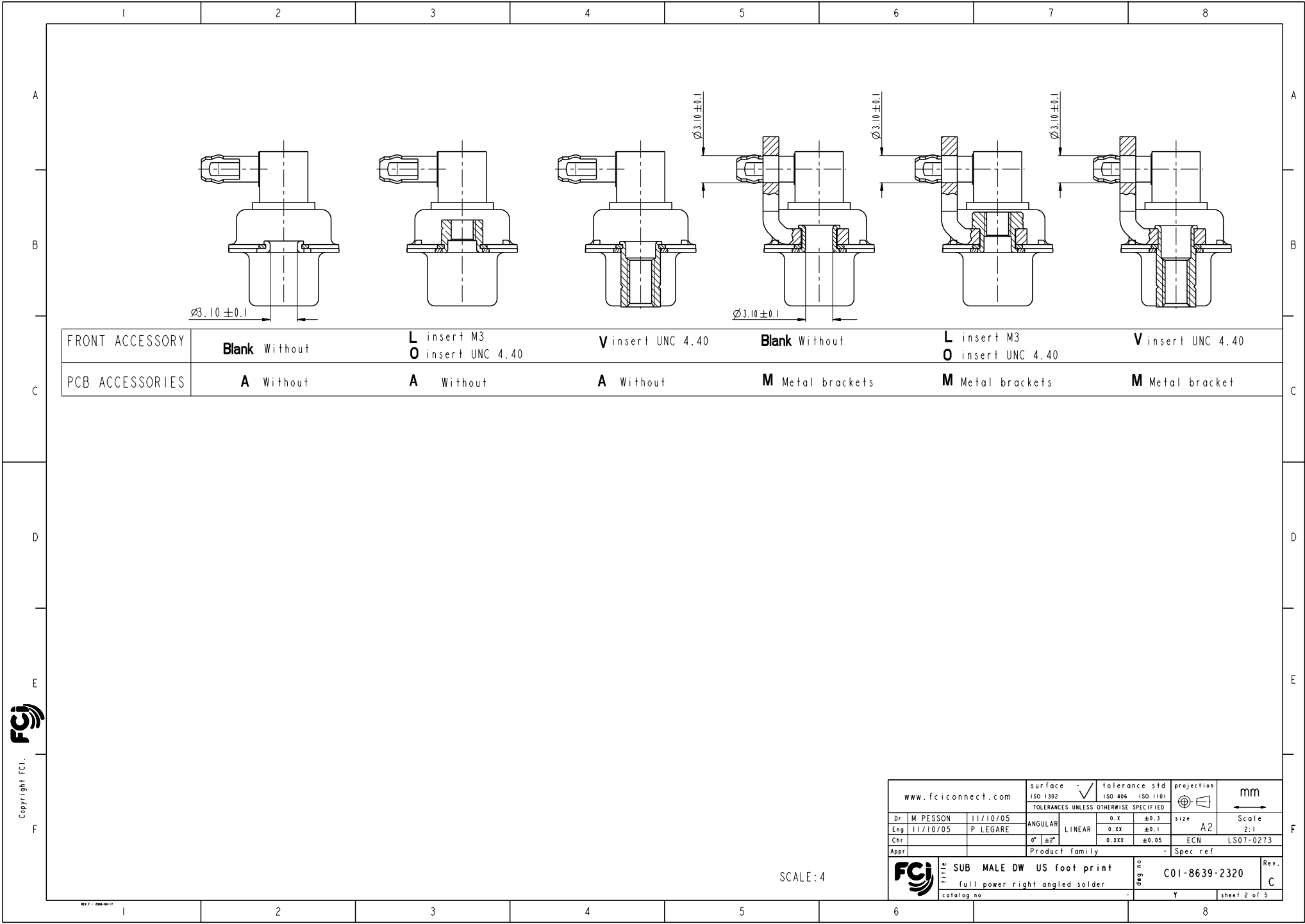
| P.C.B<br>HOLE<br>DEFINITION<br>(NOTE 1 AND 2) | SnPb holes for CONTACTS    |                                 | Sn holes for CONTACTS      |                                 | holes ACCESSORIES |
|-----------------------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------------|-------------------|
|                                               | DRILL DIAMETER             | Ø3.22 REF(NOTE 3)               | DRILL DIAMETER             | Ø3.22 REF(NOTE 3)               |                   |
|                                               | DRILLED HOLE               | Ø3.19-3.25                      | DRILLED HOLE               | Ø3.19-3.25                      |                   |
|                                               | COPPER PLATING             | 25µ MINI (RECOMMENDED 50µ MAXI) | COPPER PLATING             | 25µ MINI (RECOMMENDED 50µ MAXI) |                   |
|                                               | TIN-LEAD PLATING           | 15µ MAXI (RECOMMENDED 5µ MINI)  | TIN-LEAD PLATING           | 15µ MAXI (RECOMMENDED 5µ MINI)  |                   |
|                                               | TIN PLATING                |                                 | TIN PLATING                | 0.8 to 1,2µ                     | Ø3.10±0.10        |
|                                               | FINISH HOLE (AFTER REFLOW) | Ø 3.02-3.20                     | FINISH HOLE (AFTER REFLOW) | Ø3.08-3.20                      |                   |

NOTE-1:THESE DIMENSIONS MUST BE RESPECT TO SECURE PRESS-FIT PIN PERFORMANCES.

NOTE-2: ACCORDING TO IEC-352-5 SPEC.

NOTE-3: MAJOR REQUIREMENT FOR PRESS FIT PIN PERFORMANCE

|                    |  |  |  |                                       |          |               |         |               |            |       |
|--------------------|--|--|--|---------------------------------------|----------|---------------|---------|---------------|------------|-------|
| www.fciconnect.com |  |  |  | surface                               | ISO 1302 | tolerance std | ISO 406 | ISO 1101      | projection | mm    |
|                    |  |  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |          |               |         |               |            |       |
|                    |  |  |  | ANGULAR                               | LINEAR   | 0.X           | ±0.3    | size          | A2         | Scale |
|                    |  |  |  | 0° ±2°                                |          | 0.XX          | ±0.1    |               |            | 2:1   |
|                    |  |  |  |                                       |          | 0.XXX         | ±0.05   | ECN           | LS07-0273  |       |
|                    |  |  |  | Product family                        |          |               |         | Spec ref      |            |       |
|                    |  |  |  | SUB MALE DW US foot print             |          |               |         | C01-8639-2320 |            |       |
|                    |  |  |  | full power right angled solder        |          |               |         | C             |            |       |
|                    |  |  |  | catalog no                            |          |               |         | sheet 1 of 5  |            |       |



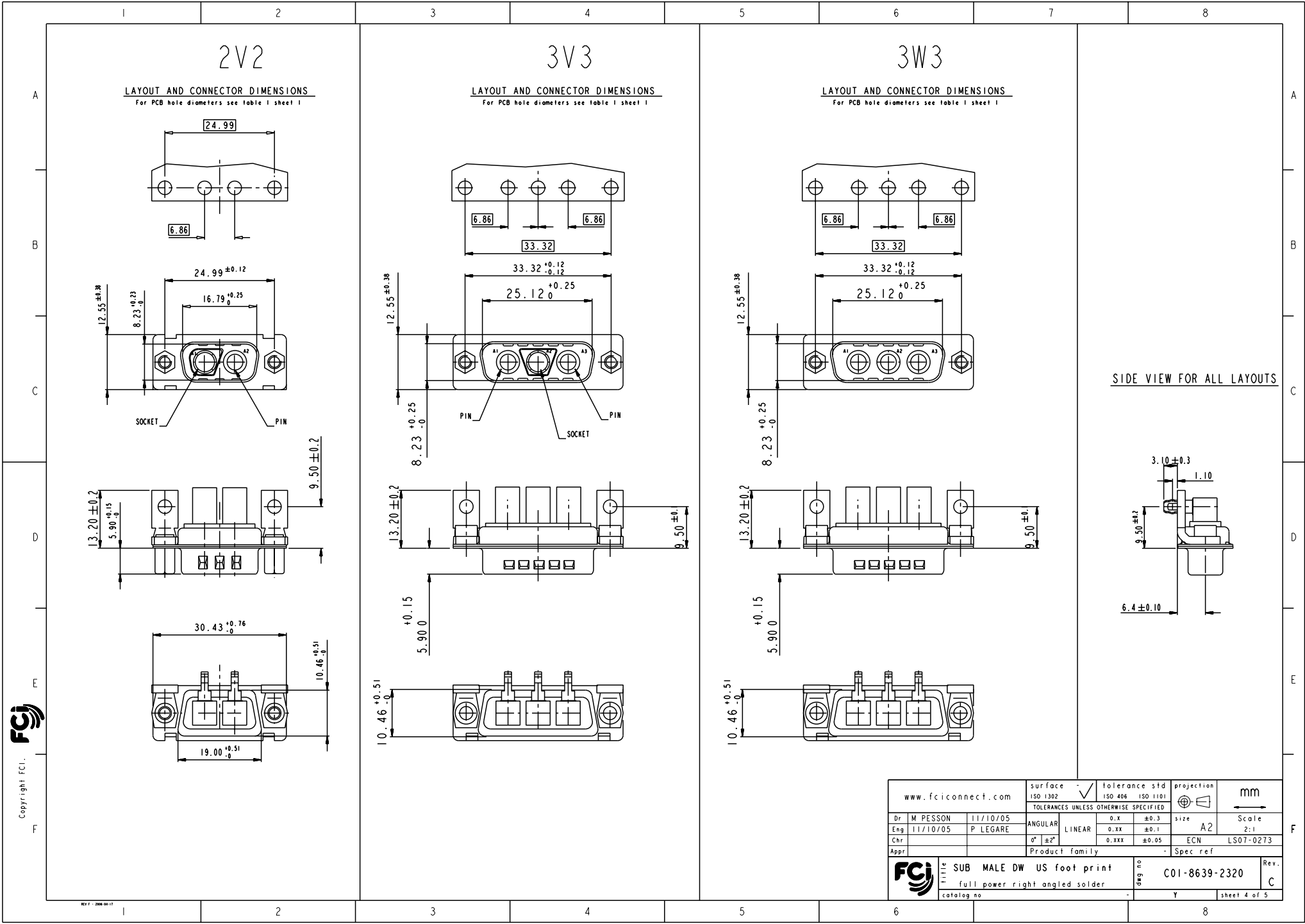
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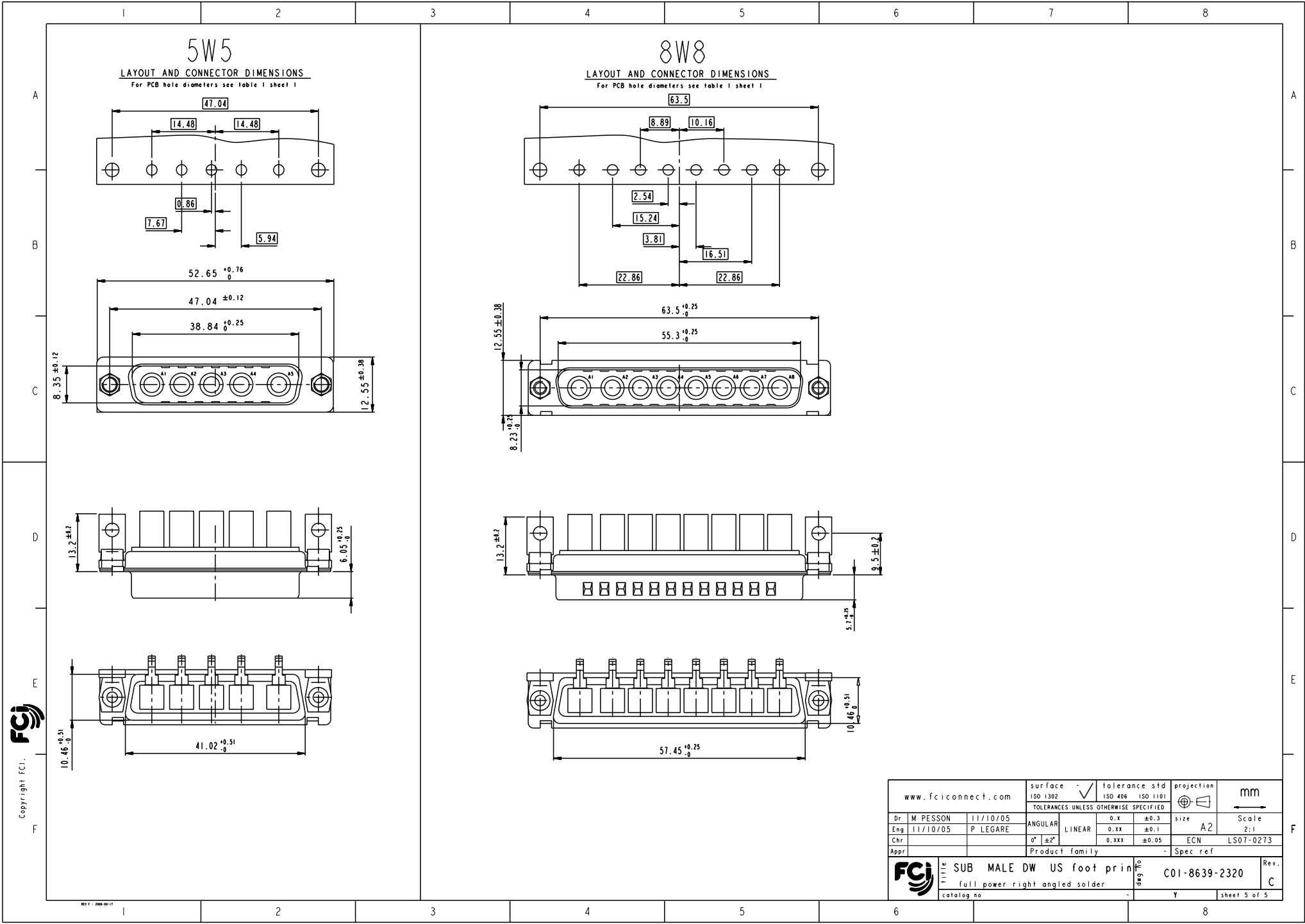
|                    |          |                                       |                |               |          |               |            |              |
|--------------------|----------|---------------------------------------|----------------|---------------|----------|---------------|------------|--------------|
| www.fciconnect.com |          | surface                               | ISO 1302       | tolerance std | ISO 406  | ISO 1101      | projection | mm           |
|                    |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |                |               |          |               |            |              |
| Dr                 | M PESSON | 11/10/05                              | ANGULAR        | 0.X           | ±0.3     | size          | A2         | Scale        |
| Eng                | 11/10/05 | P LEGARE                              | LINEAR         | 0.XX          | ±0.1     |               |            | 2:1          |
| Chr                |          |                                       | 0° ±2°         | 0.XXX         | ±0.05    | ECN           | LS07-0273  |              |
| Appr               |          |                                       | Product family |               | Spec ref |               |            |              |
|                    |          | SUB MALE DW US foot print             |                | deg no        |          | C01-8639-2320 |            | Rev.         |
|                    |          | full power right angled solder        |                |               |          | Y             |            | C            |
|                    |          | catalog no                            |                |               |          |               |            | sheet 2 of 5 |

SCALE: 4

| shell size | LAYOUTS |
|------------|---------|
| #          | xWx     |
| E          | 2V2     |
| A          | 3V3     |
| A          | 3W3     |
| B          | 5W5     |
| C          | 8W8     |

|                                                                                       |          |          |                                                                                        |        |                                                                                                     |                         |                                                                                             |              |
|---------------------------------------------------------------------------------------|----------|----------|----------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------|--------------|
| 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 | 11/10/05 | ANGULAR                                                                                | LINEAR | 0.X ±0.3                                                                                            | size                    | A2                                                                                          | Scale        |
| Eng                                                                                   | 11/10/05 | P LEGARE |                                                                                        |        | 0.X ±0.1                                                                                            |                         |                                                                                             | 2:1          |
| Chr                                                                                   |          |          | 0° ±2°                                                                                 |        | 0.XXX ±0.05                                                                                         | ECN                     | LS07-0273                                                                                   |              |
| Appr                                                                                  |          |          | Product family                                                                         |        | -                                                                                                   | Spec ref                |                                                                                             |              |
|  |          |          | SUB MALE DW US foot print<br>full power right angled solder                            |        |                                                                                                     | dag no<br>C01-8639-2320 |                                                                                             | Rev<br>C     |
| catalog no                                                                            |          |          | -                                                                                      |        |                                                                                                     | Y                       |                                                                                             | sheet 3 of 5 |





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|                    |          |                                       |                |                                |         |               |            |              |
|--------------------|----------|---------------------------------------|----------------|--------------------------------|---------|---------------|------------|--------------|
| www.fciconnect.com |          | surface                               | ISO 1302       | tolerance std                  | ISO 406 | ISO 1101      | projection | mm           |
|                    |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |                |                                |         |               | size       | Scale        |
| Dr                 | M PESSON | 11/10/05                              | ANGULAR        | 0.X                            | ±0.3    |               | A2         | 2:1          |
| Eng                | 11/10/05 | P LEGARE                              | LINEAR         | 0.XX                           | ±0.1    |               | ECN        | LS07-0273    |
| Chr                |          |                                       | 0° ±2°         | 0.XXX                          | ±0.05   |               | Spec ref   |              |
| Appr               |          |                                       | Product family |                                |         |               |            |              |
| FCi                |          | SUB MALE DW US foot prin              |                | full power right angled solder |         | C01-8639-2320 |            | Rev.         |
|                    |          | catalog no                            |                |                                |         | Y             |            | sheet 5 of 5 |