

## 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: 30A
- CONTACT RESISTANCE: <= 7.3 m ohms
- 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 21 DAYS
- SALT SPRAY 24 HOURS

## MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum
- Female screw : 0.5 N.m minimum

## NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.
- The housing will withstand exposure to 260°C peak temperature for 3.5 seconds in a wave solder application with a 1.6mm minimum thick circuit board. See application notes/procedures if they are available.
- Termination plating spec:
  - Ni 1.27µm+Sn 2.5 to 7.5µm(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

Series

# DBL5W5P700G30LF

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 sheets)

Contacts

**P** :Pin

Termination type  
**7** Right angle/USA

Plating

**00** 200 matings/unmatings  
**43** 500 matings/unmatings

PCB accessories definition  
see sheet 2

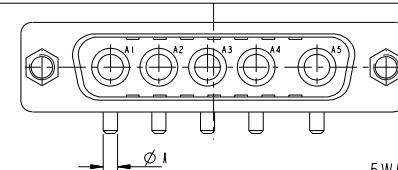
**A** :without accessory  
**H** :Metal brackets+harpoons for PCB 2.40mm  
**G** :Metal brackets+harpoons for PCB 1.60mm  
**M** :Metal brackets

Power contacts

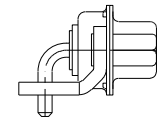
**00** :Not fitted with power contact (signal contacts always fitted)  
**30** :Fitted with power contacts 30 Amp.

TABLE 1:PCB HOLE DIAMETERS

| POWER CONTACTS    |                                 |                    | ACCESSORIES        |
|-------------------|---------------------------------|--------------------|--------------------|
| 30 A              | Ø2.00                           | Ø2.40              | Ø3.10              |
| Max current power | ØA <sup>+0.1</sup> <sub>0</sub> | PCB HOLE<br>+/-0.1 | PCB HOLE<br>+/-0.1 |



5W5 FOR EXAMPLE



|                    |          |                                       |                  |            |          |
|--------------------|----------|---------------------------------------|------------------|------------|----------|
| www.fciconnect.com |          | surface                               | tolerance std    | projection | mm       |
|                    |          | ISO 1302                              | ISO 406 ISO 1101 | mm         |          |
|                    |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |                  |            |          |
| Dr                 | M PESSON | 2005-10-11                            | ANGULAR          | 0.X        | ±0.3     |
| Eng                | P LEGARE | 2005-10-11                            | LINEAR           | 0.XX       | ±0.1     |
| Chr                |          |                                       |                  | 0.XXX      | ±0.05    |
| Appr               |          |                                       | Product family   | ECN        | F09-0092 |
|                    |          |                                       |                  | Spec ref   |          |

|     |           |     |            |                                |     |      |    |    |      |       |     |    |      |
|-----|-----------|-----|------------|--------------------------------|-----|------|----|----|------|-------|-----|----|------|
| rev | ecn no    | dr  | date       | title                          | sub | male | dw | us | foot | print | ang | no | Rev. |
| A   | LS05-0113 | WPE | 2005-10-11 | SUB MALE DW US foot print      |     |      |    |    |      |       |     |    | D    |
| B   | LS06-0208 | LGO | 2006-12-13 | full power right angled solder |     |      |    |    |      |       |     |    |      |
| C   | LS07-0273 | WPE | 2007/11/05 |                                |     |      |    |    |      |       |     |    |      |
| D   | F09-0092  | LSA | 2009/09/16 |                                |     |      |    |    |      |       |     |    |      |
| -   | -         | -   | -          |                                |     |      |    |    |      |       |     |    |      |
| -   | -         | -   | -          |                                |     |      |    |    |      |       |     |    |      |
| -   | -         | -   | -          |                                |     |      |    |    |      |       |     |    |      |

PDM-REV:D

STATUS Released

Printed: Apr 28, 2015

A

B

C

D

E

F

A

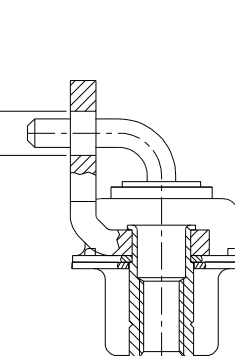
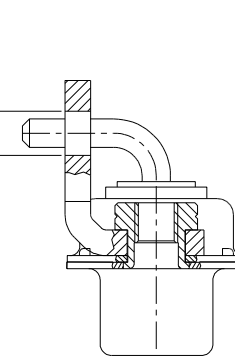
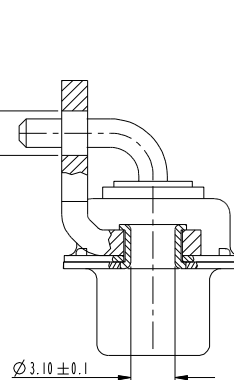
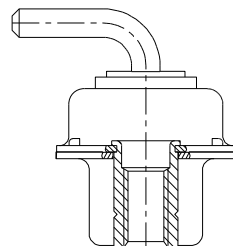
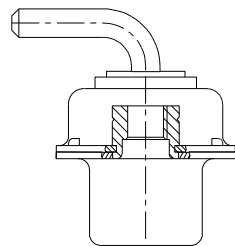
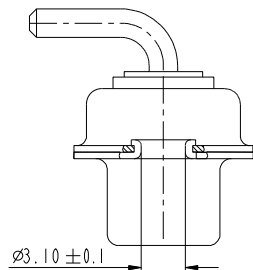
B

C

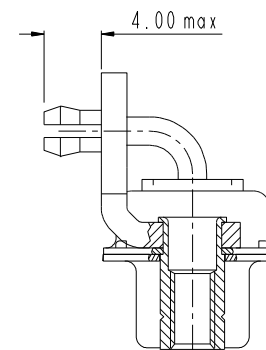
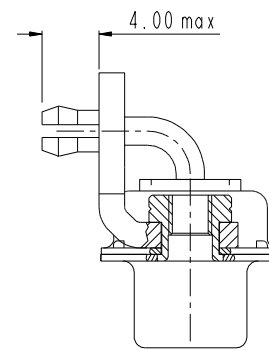
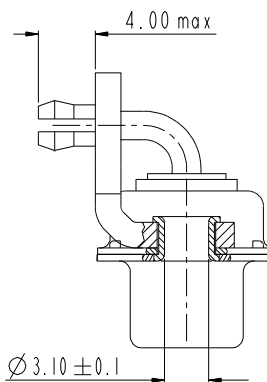
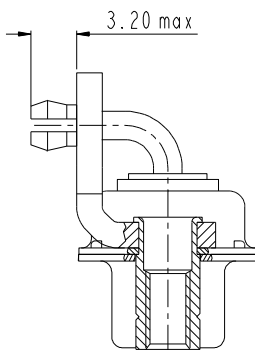
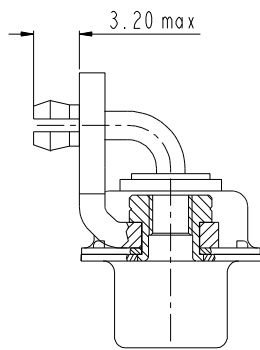
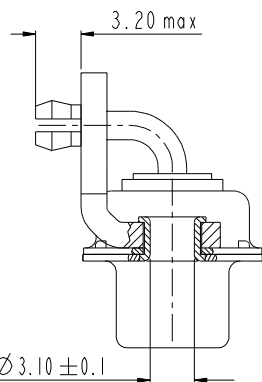
D

E

F



|                 |                      |                                                |                          |                         |                                                |                          |
|-----------------|----------------------|------------------------------------------------|--------------------------|-------------------------|------------------------------------------------|--------------------------|
| FRONT ACCESSORY | <b>Blank</b> Without | <b>L</b> insert M3<br><b>O</b> insert UNC 4.40 | <b>V</b> insert UNC 4.40 | <b>Blank</b> Without    | <b>L</b> insert M3<br><b>O</b> insert UNC 4.40 | <b>V</b> insert UNC 4.40 |
| PCB ACCESSORIES | <b>A</b> Without     | <b>A</b> Without                               | <b>A</b> Without         | <b>M</b> Metal brackets | <b>M</b> Metal brackets                        | <b>M</b> Metal bracket   |



|                 |                                                   |                                                   |                                                   |                                                   |                                                   |                                                   |
|-----------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| FRONT ACCESSORY | <b>Blank</b> Without                              | <b>L</b> insert M3<br><b>O</b> insert UNC 4.40    | <b>V</b> insert UNC 4.40                          | <b>Blank</b> Without                              | <b>L</b> insert M3<br><b>O</b> insert UNC 4.40    | <b>V</b> insert UNC 4.40                          |
| PCB ACCESSORIES | <b>G</b> Metal brackets + harpoons for PCB 1.60mm | <b>G</b> Metal brackets + harpoons for PCB 1.60mm | <b>G</b> Metal brackets + harpoons for PCB 1.60mm | <b>H</b> Metal brackets + harpoons for PCB 2.40mm | <b>H</b> Metal brackets + harpoons for PCB 2.40mm | <b>H</b> Metal brackets + harpoons for PCB 2.40mm |

SCALE:4

|                                       |          |                     |                                   |                  |
|---------------------------------------|----------|---------------------|-----------------------------------|------------------|
| www.fciconnect.com                    |          | surface<br>ISO 1302 | tolerance std<br>ISO 406 ISO 1101 | projection<br>mm |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |          |                     |                                   |                  |
| Dr                                    | M PESSON | 2005-10-11          | ANGULAR                           | size A2          |
| Eng                                   | P LEGARE | 2005-10-11          | LINEAR                            | Scale 2:1        |
| Chr                                   |          |                     | 0° ±2°                            | ECN F09-0092     |
| Appr                                  |          |                     | Product family                    | Spec ref         |

|     |                                |        |               |      |
|-----|--------------------------------|--------|---------------|------|
| FCI | SUB MALE DW US foot print      | ang no | C01-8639-2313 | Rev. |
|     | full power right angled solder |        |               | D    |

| PART NUMBER     | AMPS | MATINGS/<br>UNMATINGS | FRONT<br>ACCESSORY    | PCB<br>ACCESSORIES               |
|-----------------|------|-----------------------|-----------------------|----------------------------------|
| D*xWxP700A30LF  | 30   | 200                   | without               | without                          |
| D*LxWxP700A30LF | 30   | 200                   | insert M3             | without                          |
| D*OxWxP700A30LF | 30   | 200                   | insert UNC 4.40       | without                          |
| D*VxWxP700A30LF | 30   | 200                   | female screw UNC 4.40 | without                          |
| D*xWxP700H30LF  | 30   | 200                   | without               | metal bracket+harpoon PCB 2.40mm |
| D*LxWxP700H30LF | 30   | 200                   | insert M3             | metal bracket+harpoon PCB 2.40mm |
| D*OxWxP700H30LF | 30   | 200                   | insert UNC 4.40       | metal bracket+harpoon PCB 2.40mm |
| D*VxWxP700H30LF | 30   | 200                   | female screw UNC 4.40 | metal bracket+harpoon PCB 2.40mm |
| D*xWxP700G30LF  | 30   | 200                   | without               | metal bracket+harpoon PCB 1.60mm |
| D*LxWxP700G30LF | 30   | 200                   | insert M3             | metal bracket+harpoon PCB 1.60mm |
| D*OxWxP700G30LF | 30   | 200                   | insert UNC 4.40       | metal bracket+harpoon PCB 1.60mm |
| D*VxWxP700G30LF | 30   | 200                   | female screw UNC 4.40 | metal bracket+harpoon PCB 1.60mm |
| D*xWxP700M30LF  | 30   | 200                   | without               | metal bracket                    |
| D*LxWxP700M30LF | 30   | 200                   | insert M3             | metal bracket                    |
| D*OxWxP700M30LF | 30   | 200                   | insert UNC 4.40       | metal bracket                    |
| D*VxWxP700M30LF | 30   | 200                   | female screw UNC 4.40 | metal bracket                    |

shell size \* LAYOUTS  
xWx

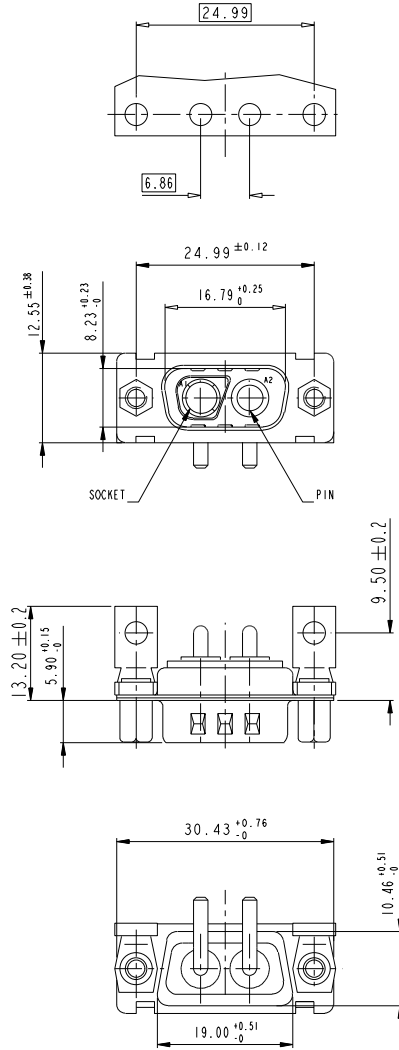
E 2V2  
A 3V3  
A 3W3  
B 5W5  
C 8W8

| PART NUMBER     | AMPS | MATINGS/<br>UNMATINGS | FRONT<br>ACCESSORY    | PCB<br>ACCESSORIES               |
|-----------------|------|-----------------------|-----------------------|----------------------------------|
| D*xWxP743A30LF  | 30   | 500                   | without               | without                          |
| D*LxWxP743A30LF | 30   | 500                   | insert M3             | without                          |
| D*OxWxP743A30LF | 30   | 500                   | insert UNC 4.40       | without                          |
| D*VxWxP743A30LF | 30   | 500                   | female screw UNC 4.40 | without                          |
| D*xWxP743H30LF  | 30   | 500                   | without               | metal bracket+harpoon PCB 2.40mm |
| D*LxWxP743H30LF | 30   | 500                   | insert M3             | metal bracket+harpoon PCB 2.40mm |
| D*OxWxP743H30LF | 30   | 500                   | insert UNC 4.40       | metal bracket+harpoon PCB 2.40mm |
| D*VxWxP743H30LF | 30   | 500                   | female screw UNC 4.40 | metal bracket+harpoon PCB 2.40mm |
| D*xWxP743G30LF  | 30   | 500                   | without               | metal bracket+harpoon PCB 1.60mm |
| D*LxWxP743G30LF | 30   | 500                   | insert M3             | metal bracket+harpoon PCB 1.60mm |
| D*OxWxP743G30LF | 30   | 500                   | insert UNC 4.40       | metal bracket+harpoon PCB 1.60mm |
| D*VxWxP543G30LF | 30   | 500                   | female screw UNC 4.40 | metal bracket+harpoon PCB 1.60mm |
| D*xWxP743M30LF  | 30   | 500                   | without               | metal bracket                    |
| D*LxWxP743M30LF | 30   | 500                   | insert M3             | metal bracket                    |
| D*OxWxP743M30LF | 30   | 500                   | insert UNC 4.40       | metal bracket                    |
| D*VxWxP743M30LF | 30   | 500                   | female screw UNC 4.40 | metal bracket                    |

|                                                                                       |          |                                                      |         |                                   |       |                                                                                                  |          |               |  |
|---------------------------------------------------------------------------------------|----------|------------------------------------------------------|---------|-----------------------------------|-------|--------------------------------------------------------------------------------------------------|----------|---------------|--|
| www.fciconnect.com                                                                    |          | surface <input checked="" type="checkbox"/> ISO 1302 |         | tolerance std<br>ISO 406 ISO 1101 |       | projection  |          | mm            |  |
|                                                                                       |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                |         |                                   |       | size                                                                                             |          | Scale         |  |
| Dr                                                                                    | M PESSON | 2005-10-11                                           | ANGULAR |                                   | 0.X   | ±0.3                                                                                             | A2       | 2:1           |  |
| Eng                                                                                   | P LEGARE | 2005-10-11                                           | LINEAR  |                                   | 0.XX  | ±0.1                                                                                             |          |               |  |
| Chr                                                                                   |          |                                                      |         | 0° ±2°                            | 0.XXX | ±0.05                                                                                            | ECN      | F09-0092      |  |
| Appr                                                                                  |          |                                                      |         | Product family                    |       |                                                                                                  | Spec ref |               |  |
|  |          | SUB MALE DW US foot print                            |         |                                   |       | drawing no                                                                                       |          | C01-8639-2313 |  |
|                                                                                       |          | full power right angled solder                       |         |                                   |       |                                                                                                  |          | Rev. D        |  |
|                                                                                       |          |                                                      |         |                                   |       | CUSTOMER                                                                                         |          | Sheet 3 of 5  |  |

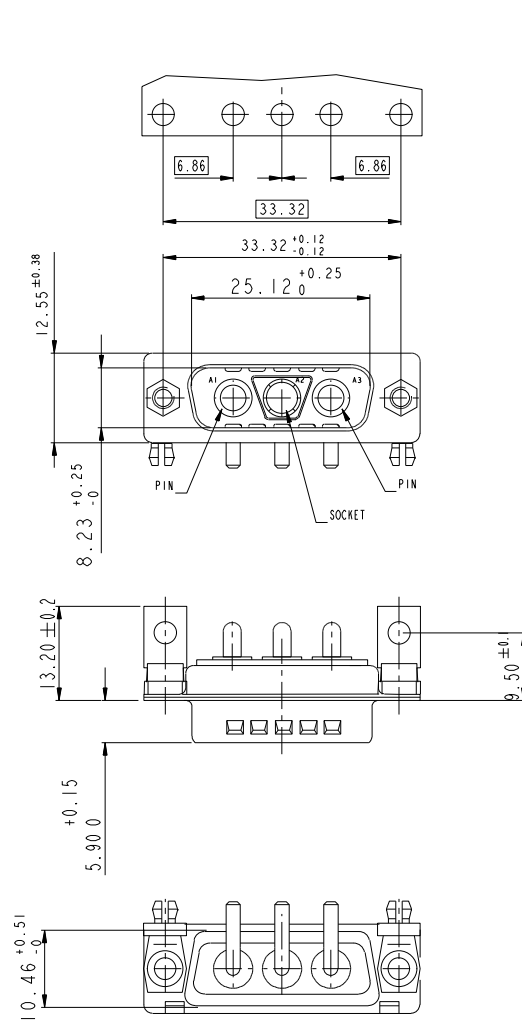
2V2

LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table 1 sheet 1



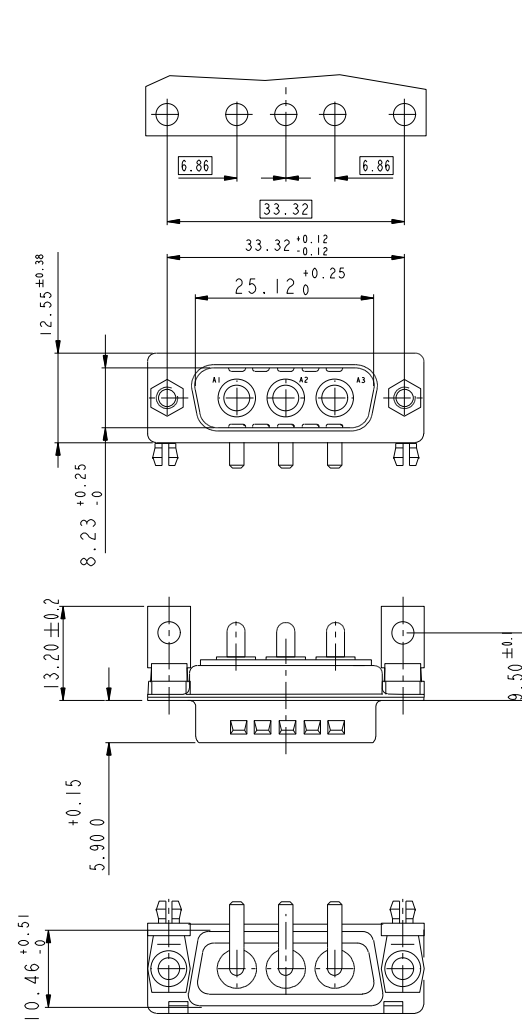
3V3

LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table 1 sheet 1

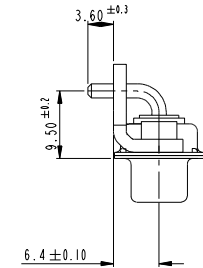


3W3

LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see table 1 sheet 1



SIDE VIEW FOR ALL LAYOUTS



|                                       |          |                     |                                   |                  |
|---------------------------------------|----------|---------------------|-----------------------------------|------------------|
| www.fciconnect.com                    |          | surface<br>ISO 1302 | tolerance std<br>ISO 406 ISO 1101 | projection<br>mm |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |          | 0.X                 | ±0.3                              | size             |
| Dr                                    | M PESSON | 2005-10-11          | ANGULAR                           | ±0.1             |
| Eng                                   | P LEGARE | 2005-10-11          | LINEAR                            | ±0.05            |
| Chr                                   |          |                     | 0° ±2°                            | ECN F09-0092     |
| Appr                                  |          |                     | Product family                    | Spec ref         |

|     |                                |                           |        |               |      |
|-----|--------------------------------|---------------------------|--------|---------------|------|
| FCI | title                          | SUB MALE DW US foot print | eng no | C01-8639-2313 | Rev. |
|     | full power right angled solder |                           |        |               | D    |

A

B

C

D

E

F

A

B

C

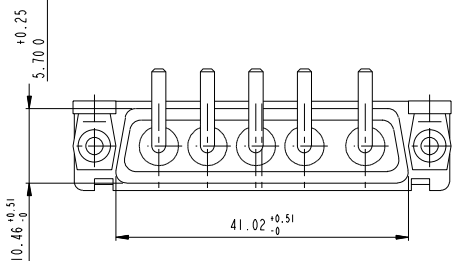
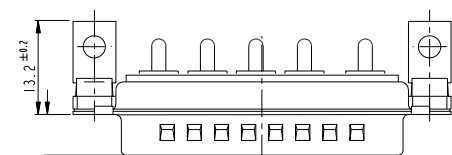
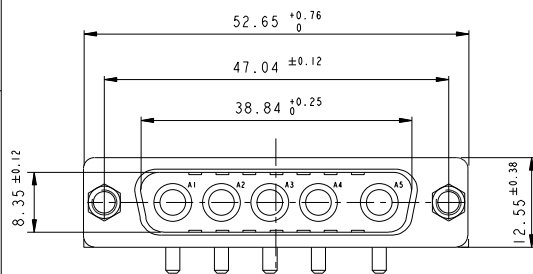
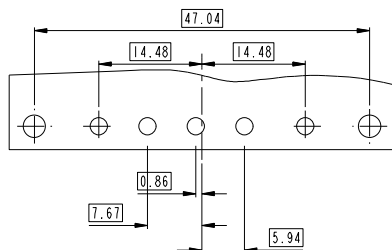
D

E

F

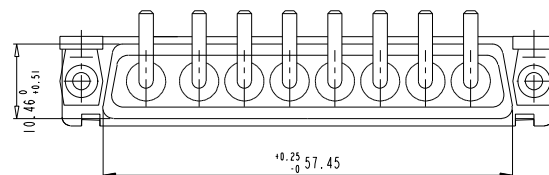
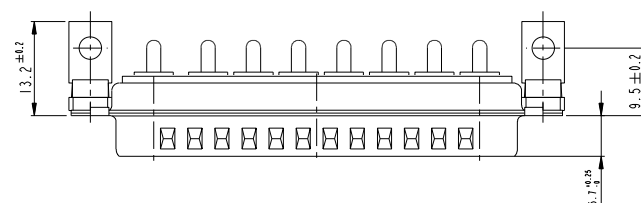
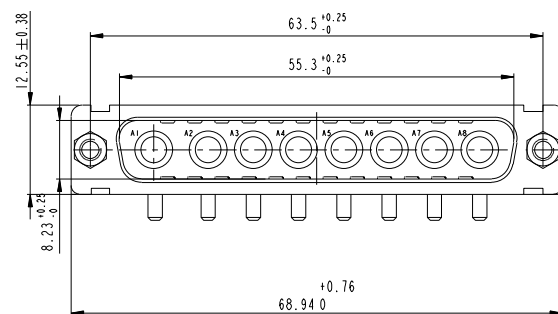
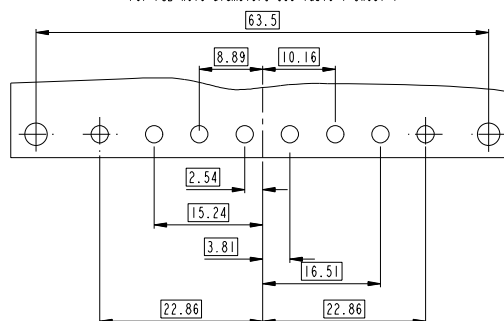
5W5

LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see Table I sheet I



8W8

LAYOUT AND CONNECTOR DIMENSIONS  
For PCB hole diameters see Table I sheet I



|                    |          |                                       |                                   |                  |              |
|--------------------|----------|---------------------------------------|-----------------------------------|------------------|--------------|
| www.fciconnect.com |          | surface<br>ISO 1302                   | tolerance std<br>ISO 406 ISO 1101 | projection<br>mm |              |
|                    |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |                                   |                  |              |
| Dr                 | M PESSON | 2005-10-11                            | ANGULAR                           | 0.X ±0.3         | size A2      |
| Eng                | P LEGARE | 2005-10-11                            | LINEAR                            | 0.XX ±0.1        | Scale 2:1    |
| Chr                |          |                                       | 0° ±2°                            | 0.XXX ±0.05      | ECN F09-0092 |
| Appr               |          |                                       | Product family                    | Spec ref         |              |

|            |  |                                 |                       |        |
|------------|--|---------------------------------|-----------------------|--------|
| FCI        |  | title SUB MALE DW US foot print | part no C01-8639-2313 | Rev. D |
| drawing no |  | full power right angled solder  |                       |        |
| customer   |  | Printed: Jun 20, 2015           |                       |        |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

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moschip.ru\_6

moschip.ru\_9