

## REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 507)

## PHYSICAL CHARACTERISTICS

- INSULATOR MATERIAL: THERMOPLASTIC UL94V0
- CONTACT MATERIAL: BRASS(SIGNAL CONTACT)  
BRASS (POWERS CONTACT)
- ACCESSORIES: BRASS
- SHELLS: STEEL

## ELECTRICAL CHARACTERISTICS

- NOMINAL CURRENT: 7.5A (SIGNAL CONTACT)  
30A or 40A (POWER CONTACT)
- CONTACT RESISTANCE: 7.3 m Ohms(SIGNAL and POWER)
- 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 48 HOURS
- 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:
  - Signal contacts: Ni + Gold
  - Power contacts: Ni 1.27µmi+Sn 2.5 to 7.5µm,pure bright
- Active area plating spec:
  - Signal and power contacts: Ni + Gold
- Shell plating :2 to 4µm Cu + 3 to 10µmm Sn,pure bright
- Accessories: Sn pure bright
- Packaging spec: See GS-14-920

Series

# DBL13W3S300G30LF

Shell size: **E A B C D**  
see sheet 2

Front accessory definition  
see sheet 2

- (blank) :No shell accessory
- L** :Threaded insert M3
- O** :Threaded insert UNC 4-40
- V** :Female screw UNC 4-40
- I** :Female screw UNC M3

Layout of contacts (see sheet 3)

Contacts  
**S** :Socket

Termination type  
**3** Straight version

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

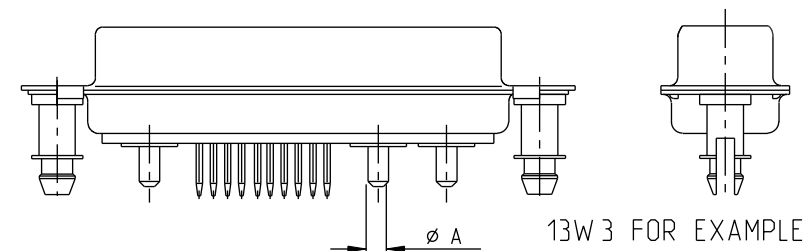
PCB accessories definition  
see sheet 2  
**A** : No PCB accessory  
**H** : Harpoons for PCB 2.40mm  
**G** : Harpoons for PCB 1.60mm

Power contacts  
**00** :Not fitted with power contact  
**30** :Fitted with power contacts 30 Amp.  
**40** :Fitted with power contacts 40 Amp.

See note RoHS

TABLE 1:PCB HOLE DIAMETERS

| POWER CONTACTS    |                                 |                    | ACCESSORIES        | SIGNAL CONTACTS    |
|-------------------|---------------------------------|--------------------|--------------------|--------------------|
| 30 A              | 2.00                            | ø2.40              | ø3.10              | ø0.90 min          |
| 40 A              | 2.80                            | 3.10               |                    |                    |
| Max current power | øA <sup>+0.1</sup> <sub>0</sub> | PCB HOLE<br>+/-0.1 | PCB HOLE<br>+/-0.1 | PCB HOLE<br>+/-0.1 |

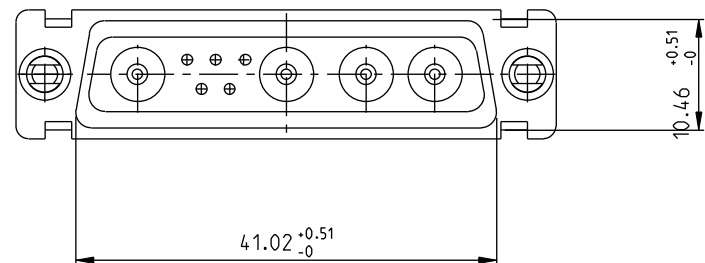
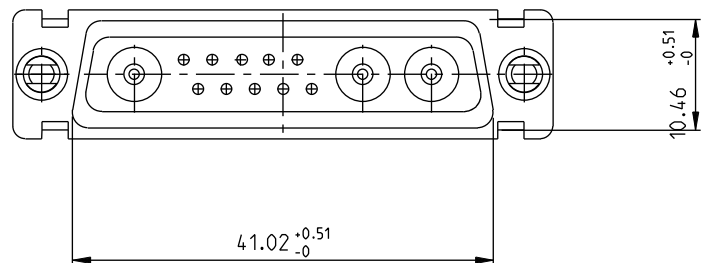


|                         |  |  |                                       |        |                                   |                        |              |
|-------------------------|--|--|---------------------------------------|--------|-----------------------------------|------------------------|--------------|
| www.fciconnect.com      |  |  | Surface<br>ISO 1302                   | -      | tolerance std<br>ISO 406 ISO 1101 | projection<br>ISO 1101 | mm           |
| Dr M PESSON 2005-10-11  |  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |        | size<br>A2                        | Scale<br>2:1           |              |
| Eng P LEGARE 2005-10-11 |  |  | ANGULAR                               | LINEAR | 0.X<br>0.XX<br>0.XXX              | ±0.3<br>±0.1<br>±0.05  | ECN F10-0035 |
| Chr                     |  |  | 0°                                    | ±2°    | Product family                    |                        |              |
| Appr                    |  |  | - Spec ref                            |        |                                   | Rev.                   |              |
| FCI                     |  |  | title SUB SOCKET DW                   |        |                                   | dwg no C01-8639-2302   |              |
|                         |  |  | mixed power straight solder           |        |                                   | J                      |              |
|                         |  |  | catalog no                            |        |                                   | CUSTOMER               |              |
|                         |  |  | -                                     |        |                                   | sheet 1 of 7           |              |

| rev | ecn no    | dr  | date       |
|-----|-----------|-----|------------|
| H   | F09-0092  | LSA | 2009/09/16 |
| J   | F10-0035  | LSA | 2010/04/14 |
| -   | -         | -   | -          |
| D   | LS07-0165 | MPE | 2007/06/14 |
| E   | LS07-0273 | MPE | 2007/10/31 |
| F   | LS08-0067 | MPE | 2008/03/10 |
| G   | LS09-0027 | MPE | 2009/01/21 |







Technical drawing of the front view of a component. The drawing shows a rectangular base with rounded corners. In the center, there is a raised area containing a grid of 16 small circular features arranged in 4 rows and 4 columns. There are also four larger circular features, one in each corner of the central area. Dimension lines indicate a width of  $41.02^{+0.51}_{-0}$  and a height of  $10.46^{+0.51}_{-0}$ .

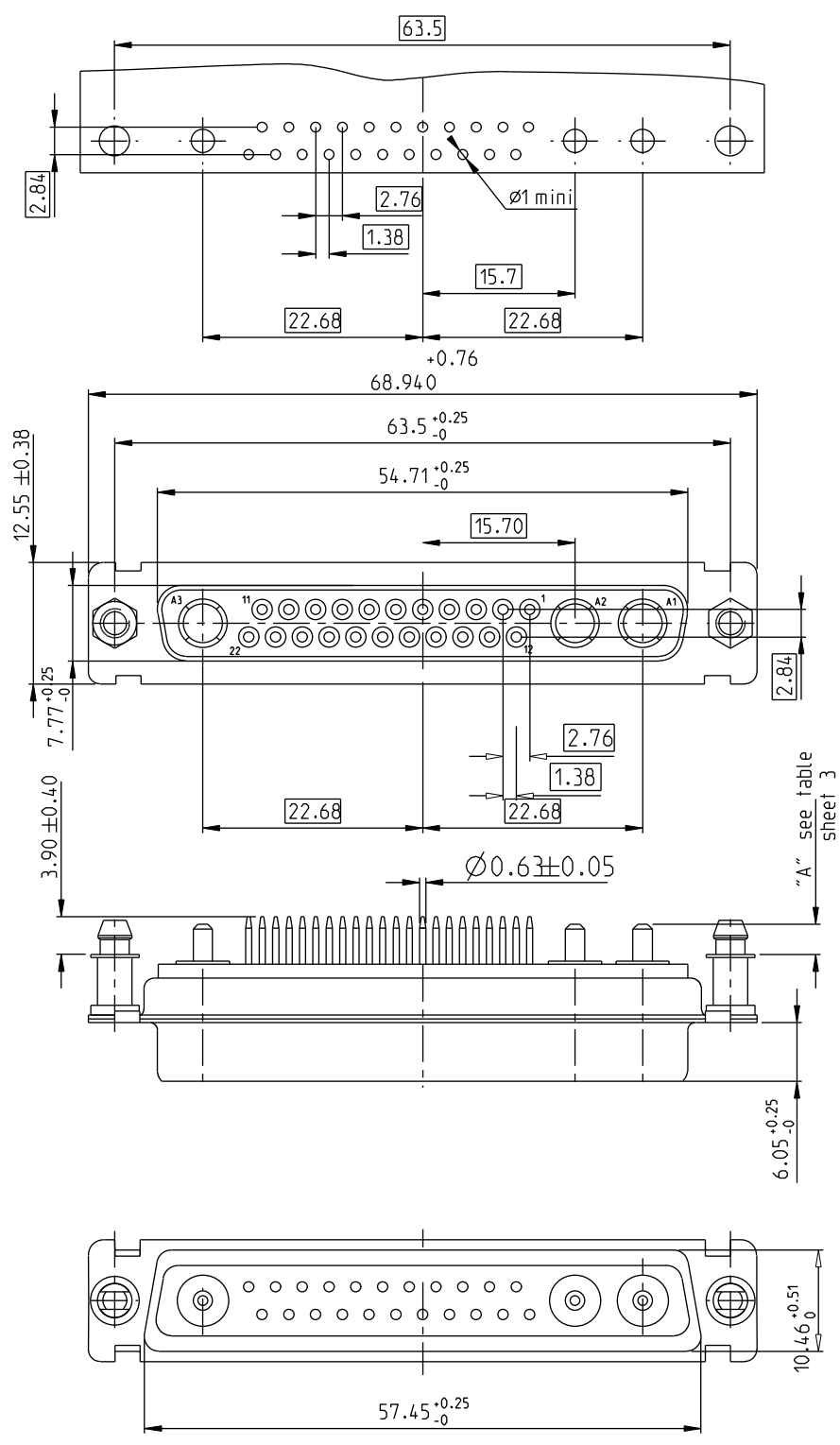
PDS: Rev :J PDM: Rev:J STATUS:Released STATUS:Released Printed: Jun 19, 2015 Printed: Apr 20, 2015





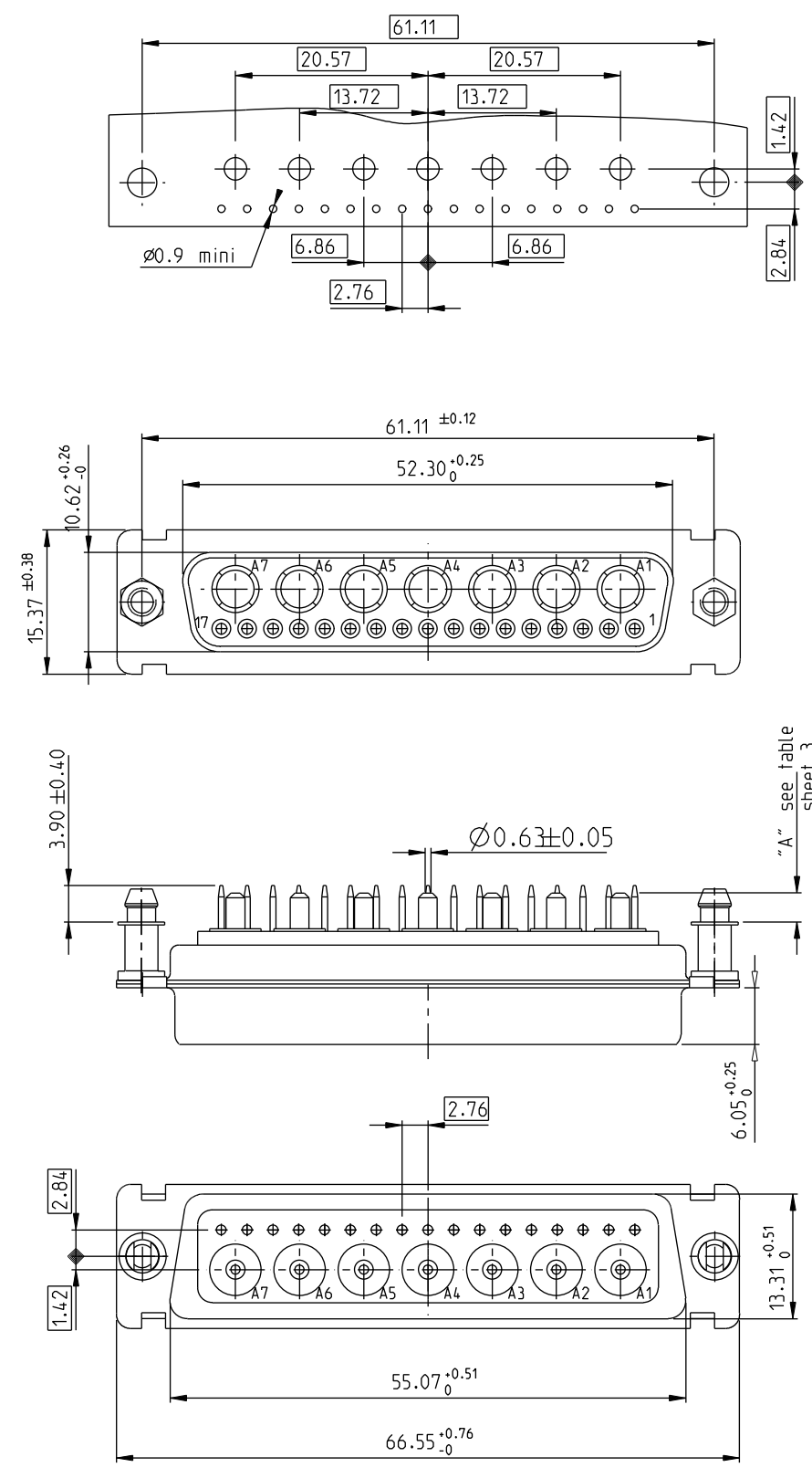
# 25W 3

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

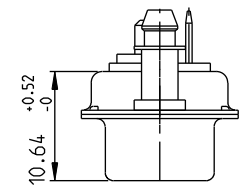


# 24W 7

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



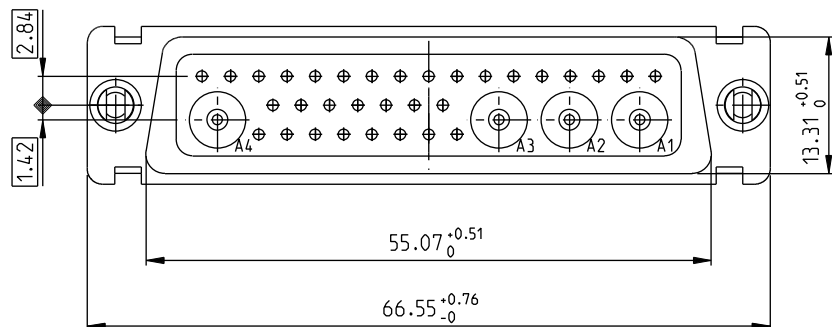
SIDE VIEW FOR  
LAYOUTS: D



|                    |          |            |                                                       |                                   |                        |                 |
|--------------------|----------|------------|-------------------------------------------------------|-----------------------------------|------------------------|-----------------|
| www.fciconnect.com |          |            | surface<br>ISO 1302                                   | tolerance std<br>ISO 406 ISO 1101 | projection<br>ISO 1101 | mm              |
|                    |          |            | TOLERANCES UNLESS OTHERWISE SPECIFIED                 |                                   |                        |                 |
| Dr                 | M PESSON | 2005-10-11 | ANGULAR<br>LINEAR                                     | 0.X                               | ±0.3                   | size<br>A2      |
| Eng                | P LEGARE | 2005-10-11 |                                                       | 0.XX                              | ±0.1                   | Scale<br>2:1    |
| Chr                |          |            |                                                       | 0.XXX                             | ±0.05                  | ECN<br>F10-0035 |
| Appr               |          |            | Product family                                        |                                   |                        | - Spec ref      |
| FCI                |          |            | title<br>SUB SOCKET DW<br>mixed power straight solder |                                   |                        | Rev.<br>J       |
| catalog no         |          |            | CUSTOMER                                              |                                   |                        | sheet 6 of 7    |

### LAYOUT AND CONNECTOR DIMENSIONS

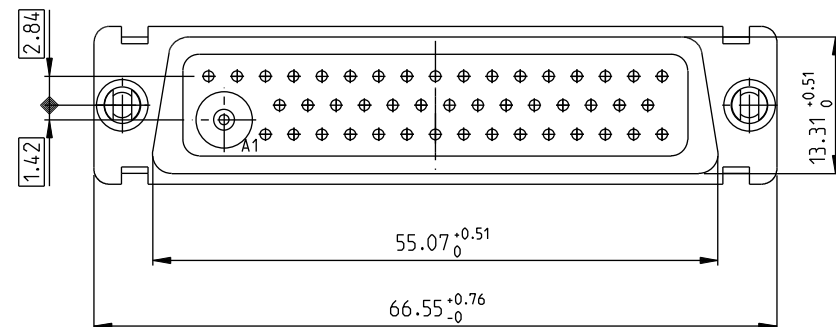
For PCB hole diameters see table 1 sheet 1



REV E - 2006-03-28

## LAYOUT AND CONNECTOR DIMENSIONS

For PCB hole diameters see table 1 sheet 1



PDS: Rev :J

PDM: Released STATUS: Released STATUS: Released Printed: Jun 19, 2015  
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