

**D-SUB F6.1 T09VU 3.2B2 TY BK****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image****The product range encompasses the following designs:**

- 90°, lying (horizontal) and 180°, standing (vertical)
- Flange design as drilled hole, UNC 4-40 threaded nut and UNC 4-40 threaded bolt
- Stamped contacts (Rated current: 3 A)
- THT soldering process
- Wide range of different design types, also with snap-on clip
- Packed in tray (TY)
- Extended temperature range of -55 °C to +85 °C for maximum performance
- Design in accordance with IEC 60807-3 (IEC 807-3) and DIN 41652

**General ordering data**

|            |                                                                                                                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | OMNIMATE Data - D-SUB connector, female header, Thread-nut UNC 4-40, Snap-on clip, THT solder connection, Pitch in mm (P): 2.77 mm, Number of poles: 9, 500, PBT glass fibre reinforced UL 94 V-0, black, Tray (manual assembly) |
| Order No.  | <a href="#">2626660000</a>                                                                                                                                                                                                       |
| Type       | D-SUB F6.1 T09VU 3.2B2 TY BK                                                                                                                                                                                                     |
| GTIN (EAN) | 4050118667554                                                                                                                                                                                                                    |
| Qty.       | 90 pc(s).                                                                                                                                                                                                                        |
| Packaging  | Tray (manual assembly)                                                                                                                                                                                                           |

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**Technical data****Dimensions and weights**

|                |            |                |            |
|----------------|------------|----------------|------------|
| Depth          | 12.55 mm   | Depth (inches) | 0.494 inch |
| Net weight     | 7.344 g    | Width          | 30.81 mm   |
| Width (inches) | 1.213 inch |                |            |

**Environmental Product Compliance**

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

**System specifications**

|                                  |                                               |       |  |
|----------------------------------|-----------------------------------------------|-------|--|
| Model                            | Socket connector                              |       |  |
| Mounting onto the PCB            | THT solder connection                         |       |  |
| Number of poles                  | 9                                             |       |  |
| Outgoing elbow                   | 180°                                          |       |  |
| Pitch in inches (P)              | 0.109 inch                                    |       |  |
| Pitch in mm (P)                  | 2.77 mm                                       |       |  |
| Plugging cycles                  | 500                                           |       |  |
| Product family                   | OMNIMATE Data - D-SUB connector               |       |  |
| Shield surface                   | tinned                                        |       |  |
| Shielding material               | Steel                                         |       |  |
| Side termination, characteristic | Thread-nut UNC 4-40, Snap-on clip             |       |  |
| Solder eyelet hole diameter (D)  | 1.1 mm                                        |       |  |
| Solder pin length (l)            | 4.6 mm                                        |       |  |
| Solder pin length tolerance      | +0,25 / -0,25 mm                              |       |  |
| Solder pin length tolerance      | Lower tolerance with prefix (reveals minimum) | -0,25 |  |
|                                  | Upper tolerance with prefix (reveals maximum) | +0,25 |  |
|                                  | Tolerance, unit                               | mm    |  |
| Soldering process                | Manual soldering, Wave soldering              |       |  |

**Electrical properties**

|                                        |           |                   |        |
|----------------------------------------|-----------|-------------------|--------|
| Dielectric strength, contact / contact | 1000 V AC | Rated current     | 3 A    |
| Rated voltage                          | 250 V     | Volume resistance | ≤20 mΩ |

**Material data**

|                                 |                                         |                             |                  |
|---------------------------------|-----------------------------------------|-----------------------------|------------------|
| Insulating material             | PBT glass fibre reinforced<br>UL 94 V-0 | Colour                      | black            |
| Colour chart (similar)          | RAL 9011                                | UL 94 flammability rating   | V-0              |
| Contact base material           | Copper alloy                            | Contact surface             | Gold over nickel |
| Layer structure of plug contact | ≥ 50 μ" Ni / ≥ 1 μ" Au                  | Storage temperature, min.   | -55 °C           |
| Storage temperature, max.       | 85 °C                                   | Operating temperature, min. | -55 °C           |
| Operating temperature, max.     | 85 °C                                   |                             |                  |

**Packing**

|           |                        |            |     |
|-----------|------------------------|------------|-----|
| Packaging | Tray (manual assembly) | VPE length | 0 m |
| VPE width | 0 m                    | VPE height | 0 m |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002637    | ETIM 7.0    | EC002637    |
| ECLASS 9.0  | 27-44-04-02 | ECLASS 9.1  | 27-44-04-02 |
| ECLASS 10.0 | 27-44-04-02 | ECLASS 11.0 | 27-46-02-01 |

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## Technical data

### Approvals

|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

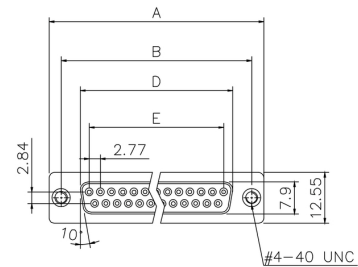
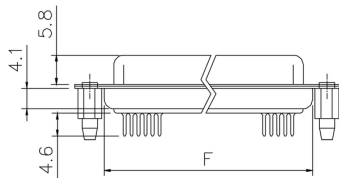
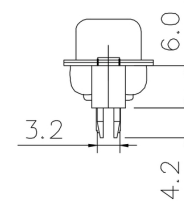
### Downloads

|                    |                                          |
|--------------------|------------------------------------------|
| Engineering Data   | <a href="#">STEP</a>                     |
| Brochure/Catalogue | <a href="#">Catalogues in PDF-format</a> |

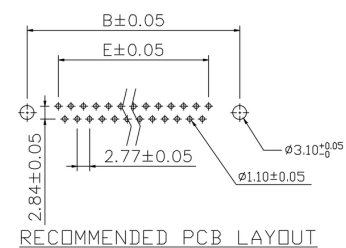
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**Drawings****Product image****Drawing****Drawing****Drawing****Dimensioned drawing**

| DIMENSION TABLE |        |        |        |        |        |
|-----------------|--------|--------|--------|--------|--------|
| POSITIONS       | A±0.15 | B±0.10 | D±0.13 | E±0.08 | F±0.10 |
| 9               | 30.81  | 24.99  | 16.33  | 11.08  | 19.20  |

**PCB design**

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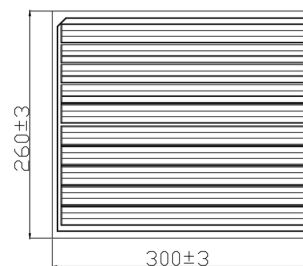
Germany

[www.weidmueller.com](http://www.weidmueller.com)**Drawings****Dimensioned drawing**

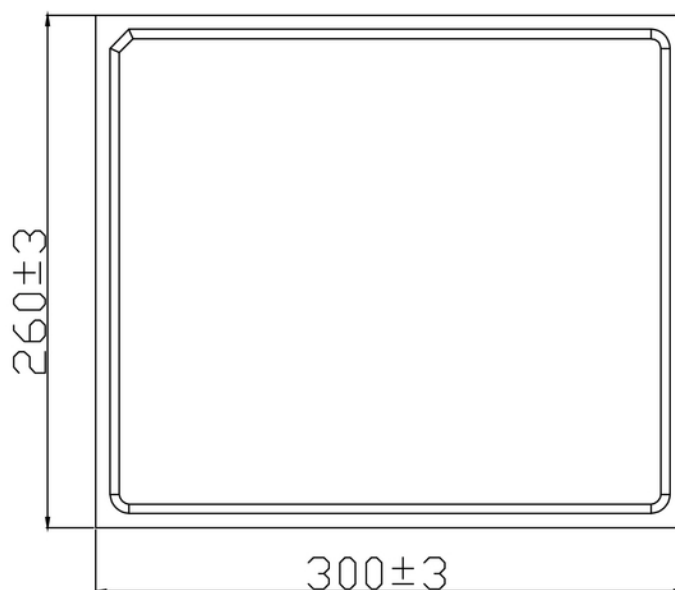
|           |                 |
|-----------|-----------------|
| Scale     | Free            |
| TOLERANCE |                 |
| X.        | $\pm 0.38$      |
| X.X       | $\pm 0.25$      |
| X.XX      | $\pm 0.13$      |
| DIM       | TOL             |
| X.°       | $\pm 3^\circ$   |
| X.X°      | $\pm 1.0^\circ$ |
| Angle     | TOL             |

**Packaging drawing**

BOTTOM COVER

**Packaging drawing**

UPPER COVER



## Recommended wave soldering profiles

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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.