

D-SUB F6.1 T09VB 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-bolt 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. | 2626670000 |
| Type | D-SUB F6.1 T09VB 3.2B2 TY BK |
| GTIN (EAN) | 4050118663617 |
| 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 |
| Width | 30.81 mm | Width (inches) | 1.213 inch |
| Net weight | 8.722 g | | |

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 " | | |
| Pitch in mm (P) | 2.77 mm | | |
| Plugging cycles | 500 | | |
| Product family | OMNIMATE Data - D-SUB connector | | |
| Protection degree | IP20 | | |
| Shield surface | tinned | | |
| Shielding material | Steel | | |
| Side termination, characteristic | Thread-bolt UNC 4-40, Snap-on clip | | |
| Solder eyelet hole diameter (D) | 1.1 mm | | |
| Solder pin dimensions | Octagonal | | |
| 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 | | |
| Tolerance of solder pin position | ± 0.1 mm | | |
| Type of connection | Solder connection | | |

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 UL 94 V-0 | Colour | black |
| Colour chart (similar) | RAL 9011 | UL 94 flammability rating | V-0 |
| Contact base material | Copper alloy | Contact material | Cu-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. | 105 °C |

Packing

| | | | |
|-----------|------------------------|------------|--------|
| Packaging | Tray (manual assembly) | VPE length | 304 mm |
| VPE width | 253 mm | VPE height | 16 mm |

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www.weidmueller.com**Technical data****Classifications**

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002637 | ETIM 7.0 | EC002637 |
| ETIM 8.0 | EC002637 | ETIM 9.0 | 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 |
| ECLASS 12.0 | 27-46-02-01 | ECLASS 13.0 | 27-46-02-01 |

Environmental Product Compliance

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

Approvals

Approvals



| | |
|-----------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (UR) | E92202 |

Downloads

| | |
|------------------|--|
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |

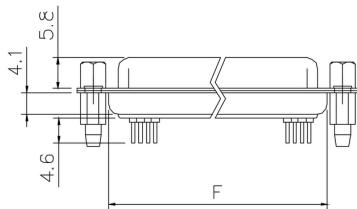
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Drawings

Product image



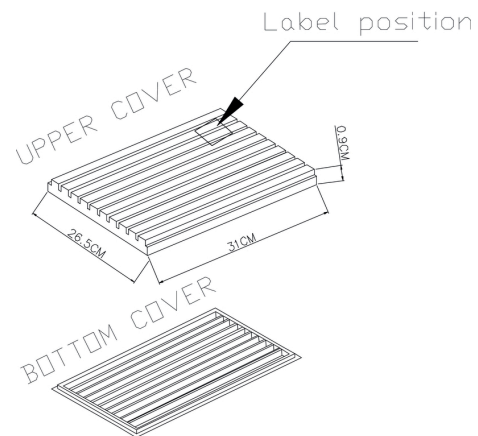
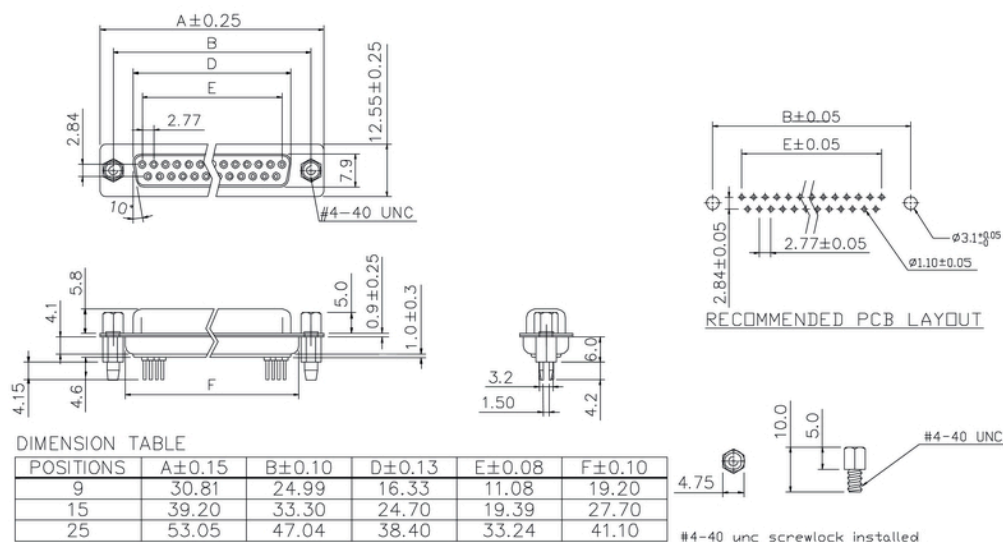
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Drawings**Packaging drawing**

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

**Dimensional drawing**

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.