OMNIMATE Data - USB jacks
USB2.0A T1H 2.5N4 TY BK

Weidmüller Interface GmbH & Co. KG
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Universal serial bus 2.0 and 3.0 (SuperSpeed); Type A connectors meet the requirements for high resistance and provide reliable connectivity.

- Up to 5000 plugging cycles
- THT, THR or SMD soldering processes
- Available in design types 180° (vertical/upright) or 90° (horizontal/flat-lying)
- Packed either in a tray (TY) or on a roll (tape-on-reel, RL)
- Reinforced gold layer for improved corrosion protection

General ordering data

Type	USB2.0A T1H 2.5N4 TY BK
Order No.	2563710000
Version	PCB plug-in connector, USB jacks, THT solder connection, No. of poles: 4, 90°, Solder pin length (l): 2.84 mm, Gold over nickel, Black, Tray (manual assembly)
GTIN (EAN)	4050118572322
Qty.	100 pc(s).
Packaging	Tray (manual assembly)

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Technical data

Dimensions and weights

Net weight	0.001 g

Temperatures

Operating temperature, max.	60 °C	Operating temperature, min.	-20 °C
Storage temperature, max.	60 °C	Storage temperature, min.	-20 °C

System specifications

LED	No	Mounting onto the PCB	THT solder connection
No. of poles	4	Number of solder pins per pole	1
Outgoing elbow	90°	Packaging	Tray (manual assembly)
Plugging cycles	≥ 1500	Product family	OMNIMATE Data - USB jacks
Protection degree	IP20	Shield tabs	none
Shielding	Yes	Solder pin length (l)	2.84 mm
Transmission rate	480 Mbit/s	Type of connection	Socket
Withdrawal force per pole	10 N	push-in force/pole	35 N

Electrical properties

Dielectric strength, contact / contact	500 V AC	Insulation resistance	≥ 1000 MΩ
Rated current	1.5 A at 250 V AC	Rated voltage	30 V

Material data

Insulating material	PBT	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	II
CTI	≥ 500	Insulation resistance	≥ 1000 MΩ
UL 94 flammability rating	V-0	Contact base material	Phosphorus bronze
Contact surface	Gold over nickel	Layer structure of plug contact	30-80 µ" Ni / 30- µ" Au
Storage temperature, min.	-20 °C	Storage temperature, max.	60 °C
Operating temperature, min.	-20 °C	Operating temperature, max.	60 °C

Classifications

eClass 6.2	27-25-05-04

Approvals

Approvals	UL LISTED
ROHS	Conform

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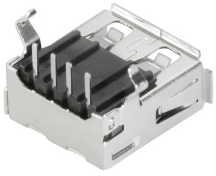
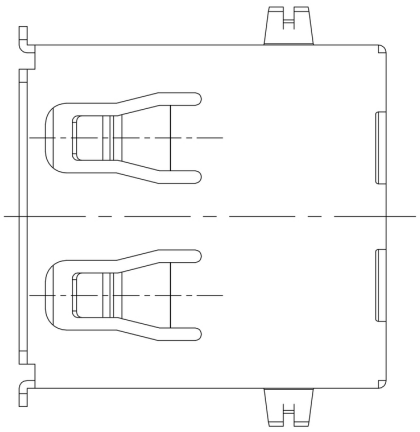
Drawings



Dimensioned drawing



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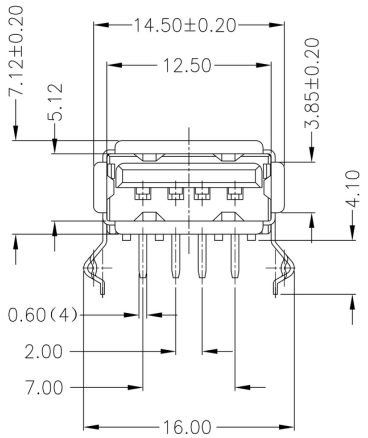

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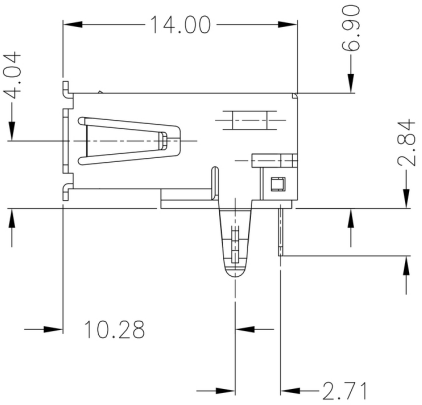

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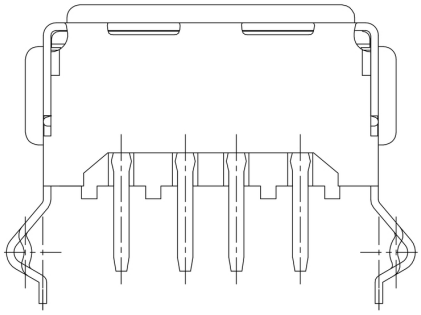
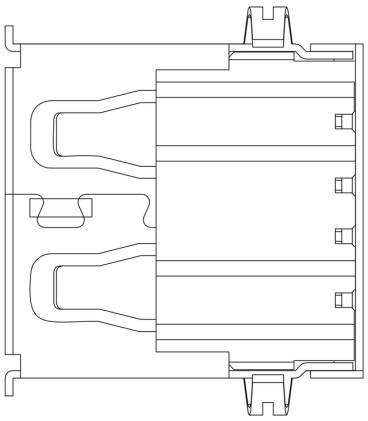


Dimensioned drawing



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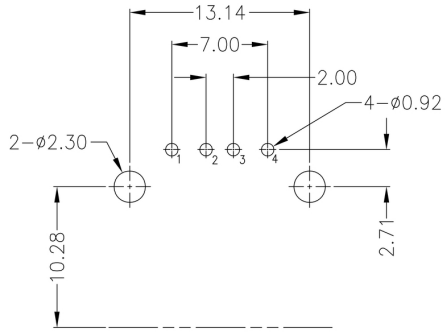
Drawings

PCB design



PCB LAYOUT

Wave Solder Profile

Recommended wave solderding profiles

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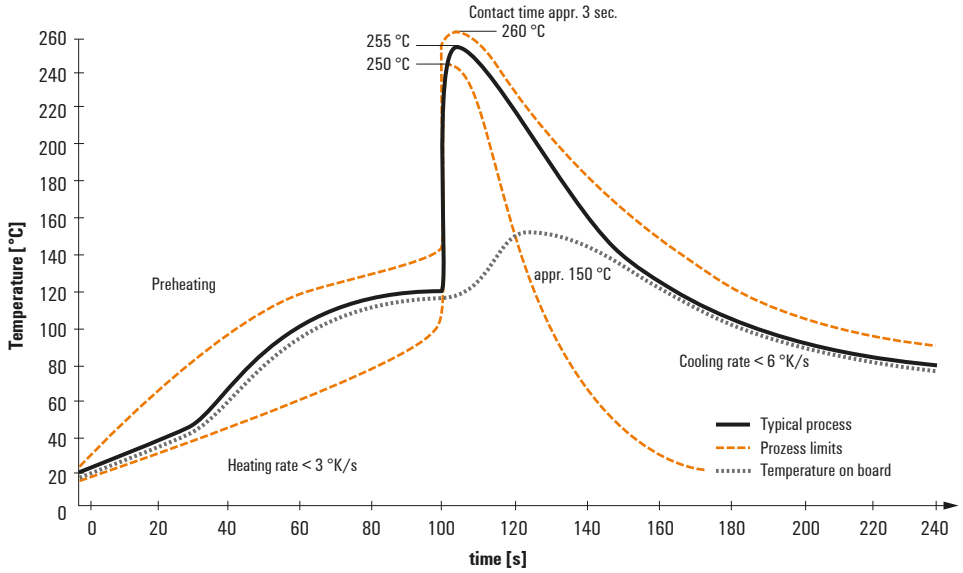
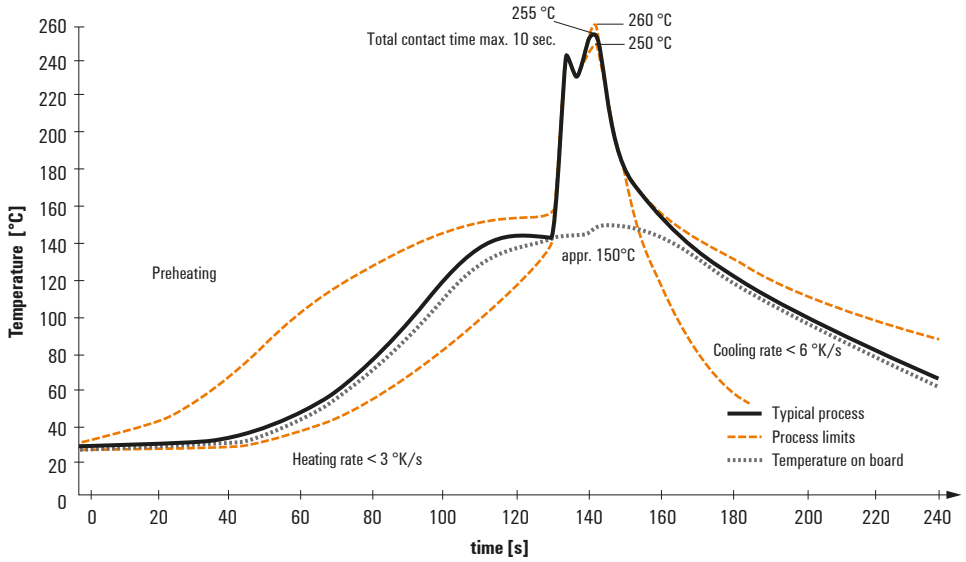
Single Wave:



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.