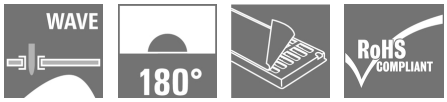
USB2.0A T1V 2.5N4 TY BK

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



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

Version	OMNIMATE Data - USB jack, USB jacks, 480 Mbps, THT solder connection, 180°, Pitch in mm (P): 2.00 mm, Number of poles: 4, PBT, black, Tray (manual assembly)
Order No.	1985910000
Type	USB2.0A T1V 2.5N4 TY BK
GTIN (EAN)	4050118370843
Qty.	100 pc(s).
Packaging	Tray (manual assembly)

Creation date March 26, 2021 7:24:42 PM CET

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Technical data

Dimensions and weights

Depth	7.12 mm	Depth (inches)	0.28 inch
Height	19.6 mm	Height (inches)	0.772 inch
Height of lowest version	15.3 mm	Net weight	2.84 g
Width	14.5 mm	Width (inches)	0.571 inch

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

System specifications

LED	No	Mounting onto the PCB	THT solder connection
Number of poles	4	Number of solder pins per pole	1
Outgoing elbow	180°	Performance-Category	480 Mbps
Pitch in mm (P)	2 mm	Product family	OMNIMATE Data - USB jack
Protection degree	IP20	Shield surface	nickel-plated
Shield tabs	none	Shielding	Yes
Shielding material	Brass	Solder pin length (l)	2.9 mm
Soldering process	Manual soldering, Wave soldering	Tolerance of solder pin position	± 0.1 mm
Transmission rate	480 Mbps	Type of connection	Socket connector

Electrical properties

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

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation strength	≥ 500 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.	-40 °C	Storage temperature, max.	60 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	60 °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

Approvals	
ROHS	Conform
UL File Number Search	E471884

Downloads

Engineering Data	STEP

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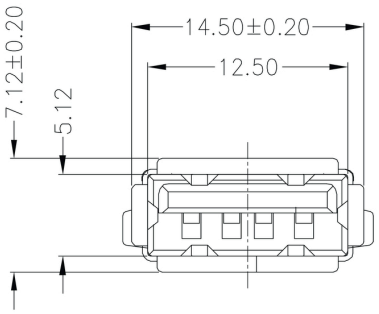
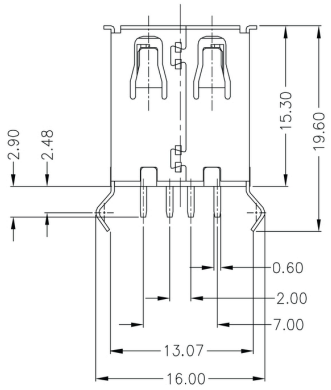
Drawings

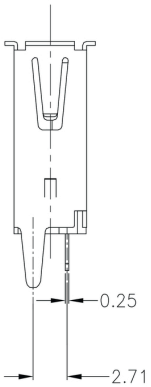
Dimensioned drawing



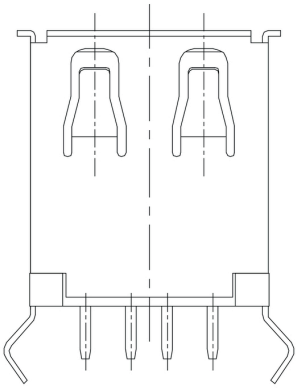
Dimensioned drawing



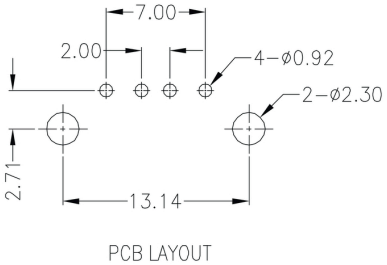
Dimensioned drawing



Dimensioned drawing



PCB design



PCB LAYOUT

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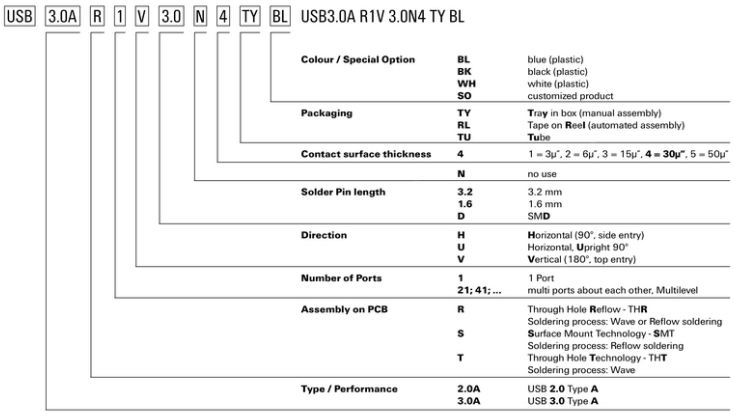
Drawings

Legend



Wave Solder Profile

Recommended wave solderding profiles

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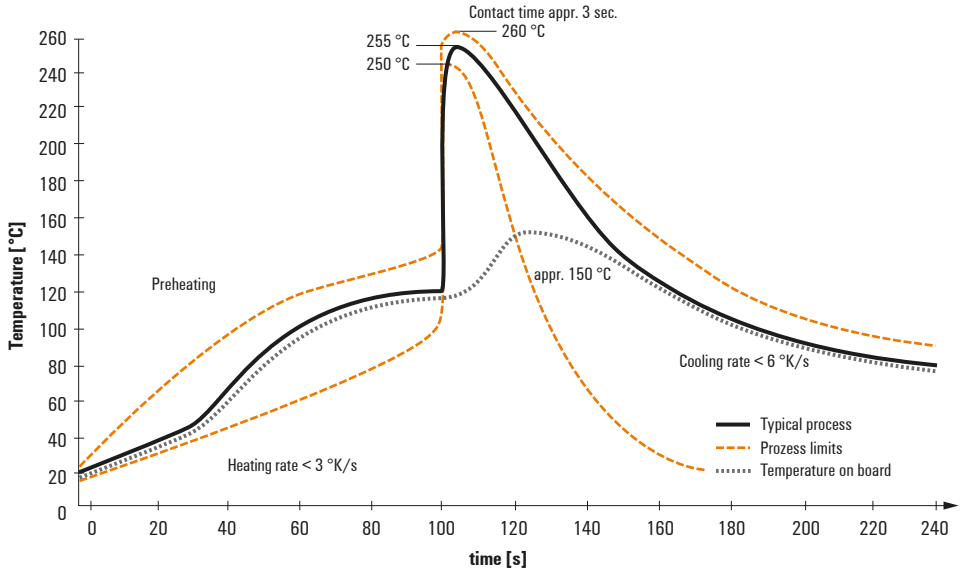
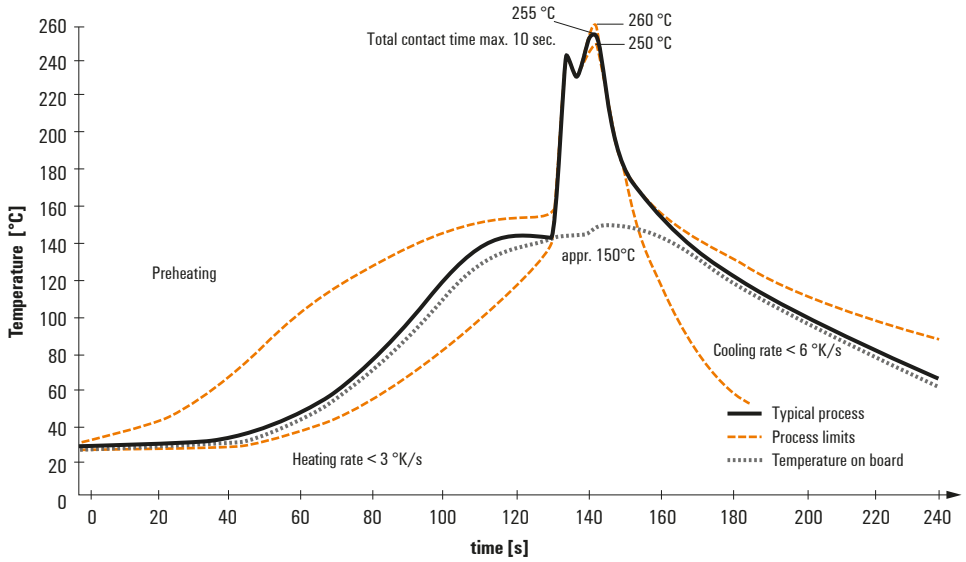
Single Wave:



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.