

USB2.0B T1V 3.0N4 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, female header, 480 Mbps, THT solder connection, 180°, Pitch in mm (P): 2.50 mm, Number of poles: 4, PBT, black, Tray (manual assembly)
Order No.	2710810000
Type	USB2.0B T1V 3.0N4 TY BK
GTIN (EAN)	4050118757866
Qty.	110 pc(s).
Packaging	Tray (manual assembly)

Creation date April 16, 2021 8:36:03 AM CEST

Catalogue status 09.04.2021 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	11.2 mm	Depth (inches)	0.441 inch
Height	16.1 mm	Height (inches)	0.634 inch
Net weight	4.273 g	Width	12.2 mm
Width (inches)	0.48 inch		

System specifications

Mounting onto the PCB	THT solder connection	Number of poles	4
Outgoing elbow	180°	Performance-Category	480 Mbps
Pitch in mm (P)	2.5 mm	Product family	OMNIMATE Data - USB jack
Protection degree	IP20	Shielding	Yes
Solder pin length (l)	3.05 mm	Soldering process	Manual soldering, Wave soldering
Transmission rate	480 Mbps		

Electrical properties

Rated voltage	30 V
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Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	UL 94 flammability rating	V-0
Contact surface	Gold over nickel	Operating temperature, min.	-40 °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

Approvals

ROHS	Conform
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Downloads

Brochure/Catalogue	Catalogues in PDF-format
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Data sheet

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Drawings

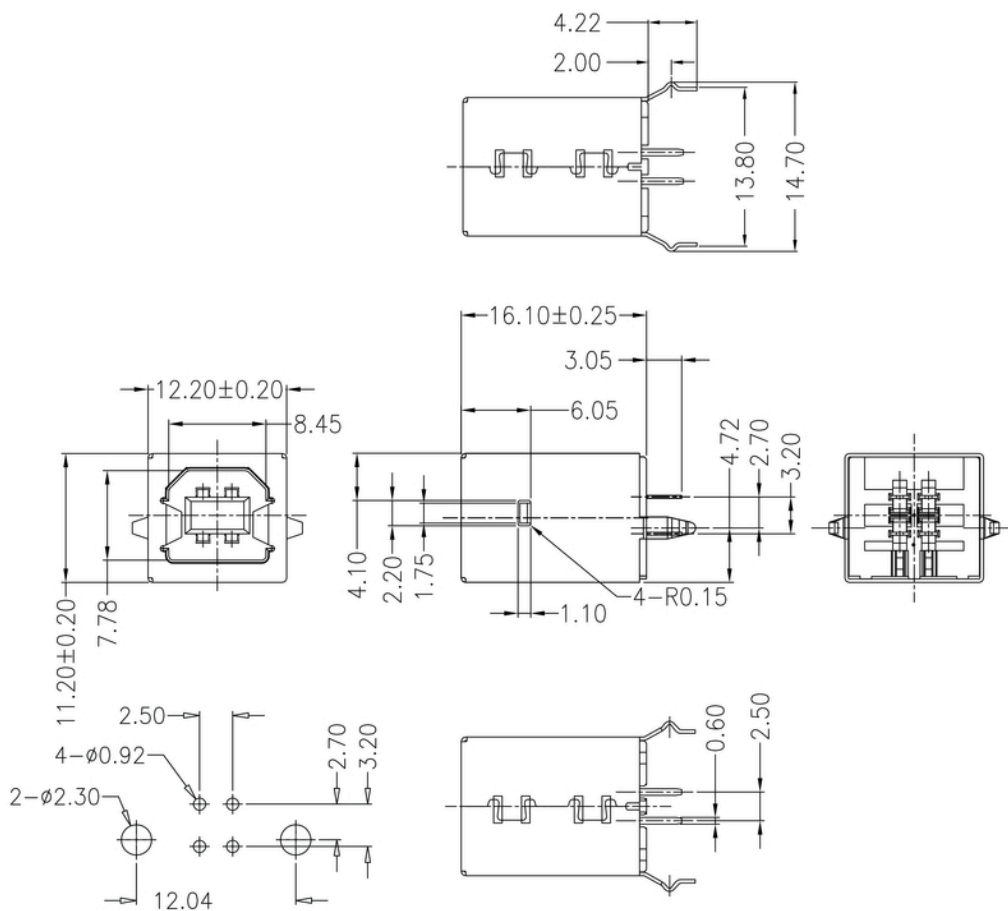


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Drawings

Legend

Code	Description	Value	Meaning
USB	USB3.0A R1V 3.0N4 TY BL		
3.0A	Colour / Special Option	BL BK WH SO	blue (plastic) black (plastic) white (plastic) customized product
R	Packaging	TY RL TU	Tray in box (manual assembly) Tape on Reel (automated assembly) Tube
1	Contact surface thickness	4	1 = 3µ, 2 = 6µ, 3 = 15µ, 4 = 30µ, 5 = 50µ
V	Solder Pin length	N 3.2 1.6 D	no use 3.2 mm 1.6 mm SMD
3.0	Direction	H U V	Horizontal (90° side entry) Horizontal Upright 90° Vertical (180° top entry)
N	Number of Ports	1 2; 4; ...	1 Port multi ports about each other, Multilevel
4	Assembly on PCB	R S T	Through Hole Reflow - THR Soldering process: Wave or Reflow soldering Surface Mount Technology - SMT Soldering process: Reflow soldering Through Hole Technology - THT Soldering process: Wave
TY	Type / Performance	2.0A 3.0A	USB 2.0 Type A USB 3.0 Type A

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.