

**USB3.0A R1V 3.0N2 TY BL****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



USB 2.0 i 3.0 (SuperSpeed); złącza typu A spełniają wymagania dotyczące wysokiej wytrzymałości i zapewniają niezawodne połączenie.

- Maks. 5000 cykli wtykania
- Procesy lutowania THT, THR lub SMD
- Dostępne typy konstrukcji 180° (pionowa/stojąca) lub 90° (pozioma/leżąca)
- Pakowane albo na tacy (TY) lub na rolce (taśma na szpuli, RL)
- Wzmocniona warstwa złota dla lepszego zabezpieczenia przed korozją

**Ogólne dane zamówieniowe**

|            |                                                                                                                                                                                |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wykonanie  | OMNIMATE Data - gniazdo USB, listwa z gniazdami, 5 Gbps, Połączenie lutowane THT/THR, 180°, Raster w mm (P): 2.00 mm, Liczba biegunów: 8, LCP, niebieski, Taca (montaż ręczny) |
| Nr zam.    | <a href="#">1549730000</a>                                                                                                                                                     |
| Typ        | USB3.0A R1V 3.0N2 TY BL                                                                                                                                                        |
| GTIN (EAN) | 4050118356083                                                                                                                                                                  |
| Ilość      | 100 Szt.                                                                                                                                                                       |
| opakowanie | Taca (montaż ręczny)                                                                                                                                                           |

Data sporządzenia 19 marca 2021 10:05:12 CET

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## Dane techniczne

## Wymiary i ciężary

|            |          |                              |            |
|------------|----------|------------------------------|------------|
| Głębokość  | 7,1 mm   | Głębokość (cale)             | 0,28 inch  |
| Masa netto | 2,46 g   | Najmniejsza wysokość montażu | 14,95 mm   |
| Szerokość  | 14,65 mm | Szerokość (cale)             | 0,577 inch |
| Wysokość   | 18,9 mm  | Wysokość (cale)              | 0,744 inch |

## Zgodność produktu z wymogami środowiska naturalnego

REACH SVHC Lead 7439-92-1

## Właściwości elektryczne

|                     |       |                                     |          |
|---------------------|-------|-------------------------------------|----------|
| Prąd znamionowy     | 1,5 A | Wytrzymałość napięciowa styk / styk | 100 V AC |
| napięcie znamionowe | 30 V  |                                     |          |

## Specyfikacje systemu

|                                 |                             |                                    |                                                                |
|---------------------------------|-----------------------------|------------------------------------|----------------------------------------------------------------|
| średnica otworu montażowego (D) | 0,7 mm                      | Długość pinu do lutowania (l)      | 3 mm                                                           |
| Ekranowanie                     | Tak                         | Klasa mocy                         | 5 Gbps                                                         |
| LED                             | Nie                         | Liczba biegunów                    | 8                                                              |
| Materiał ekranu                 | mosiadz                     | Okablowanie                        | Typ A, USB 3.0                                                 |
| Powierzchnia ekranu             | niklowany                   | Proces lutowania                   | Lutowanie rozpliwowe,<br>Lutowanie ręczne,<br>Lutowanie falowe |
| Raster w mm (P)                 | 2 mm                        | Rodzaj przyłącza                   | złącze żeńskie                                                 |
| Rodzina produktów               | OMNIMATE Data - gniazdo USB | Stopień ochrony                    | IP20                                                           |
| Szybkość przesyłania danych     | 5 Gbps                      | Zaciski ekranu                     | brak                                                           |
| kąt odejścia                    | 180°                        | liczba kołków lutowanych na biegun | 1                                                              |
| montaż na płytce drukowanej     | Połączenie lutowane THT/THR |                                    |                                                                |

## Dane materiałowe

|                                       |                |                                 |                            |
|---------------------------------------|----------------|---------------------------------|----------------------------|
| Materiał izolacyjny                   | LCP            | Barwny                          | niebieski                  |
| Tabela kolorów (podobny)              | RAL 5012       | grupa materiałów izolacyjnych   | II                         |
| Porównywalny wskaźnik śledzenia (CTI) | ≥ 500          | Moisture Level (MSL)            | 1                          |
| Klasa palności wg UL 94               | V-0            | podstawowy materiał styku       | Fosforo-brąz               |
| Powierzchnia styku                    | Złoto na niklu | Struktura warstwowa wtyku       | 30...80 μ" Ni / ≥ 30 μ" Au |
| Temperatura magazynowania, min.       | -40 °C         | Temperatura magazynowania, max. | 85 °C                      |
| Temperatura pracy, min.               | -40 °C         | Temperatura pracy, max.         | 85 °C                      |

## Opakowanie

|               |                      |              |     |
|---------------|----------------------|--------------|-----|
| opakowanie    | Taca (montaż ręczny) | Długość VPE  | 0 m |
| Szerokość VPE | 0 m                  | Wysokość VPE | 0 m |

## Klasyfikacje

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| 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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## Dane techniczne

### Dopuszczenia

Dopuszczenia



|                       |         |
|-----------------------|---------|
| ROHS                  | Zgodny  |
| UL File Number Search | E471884 |

### Pobieranie

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| Dane projektowe          | <a href="#">STEP</a>                                               |
| Dokumentacja użytkownika | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a> |

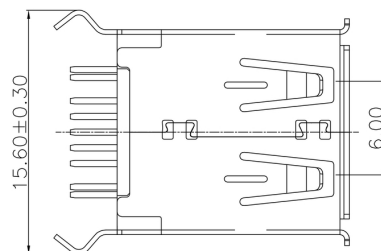
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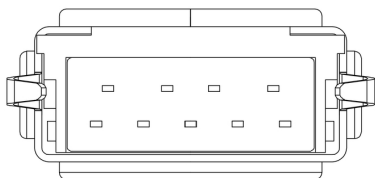
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## Rysunki

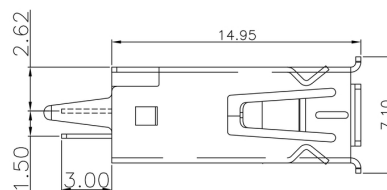
### Rysunek wymiarowy



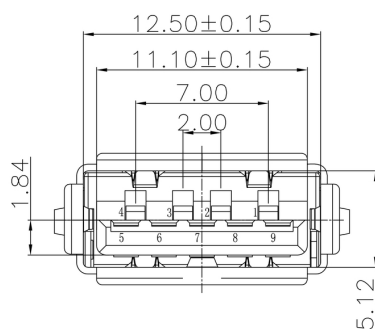
### Rysunek wymiarowy



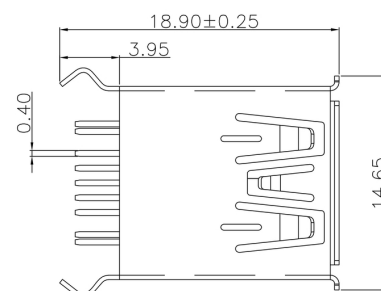
### Rysunek wymiarowy



### Rysunek wymiarowy



### Rysunek wymiarowy



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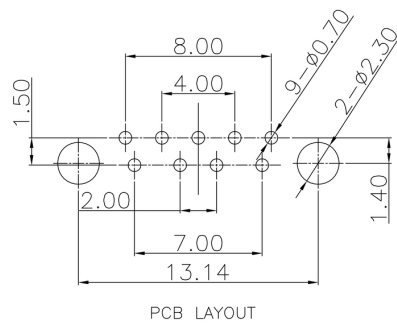
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## Rysunki

### Układ płytek obwodu drukowanego



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## Rysunki

### Legenda

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| USB | 3.0A | R | 1 | V | 3.0 | N | 4 | TY | BL | USB3.0A R1V 3.0N4 TY BL |
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## Recommended wave soldering profiles

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D-32758 Detmold  
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Fon: +49 5231 14-0  
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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.

## Recommended reflow soldering profile

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

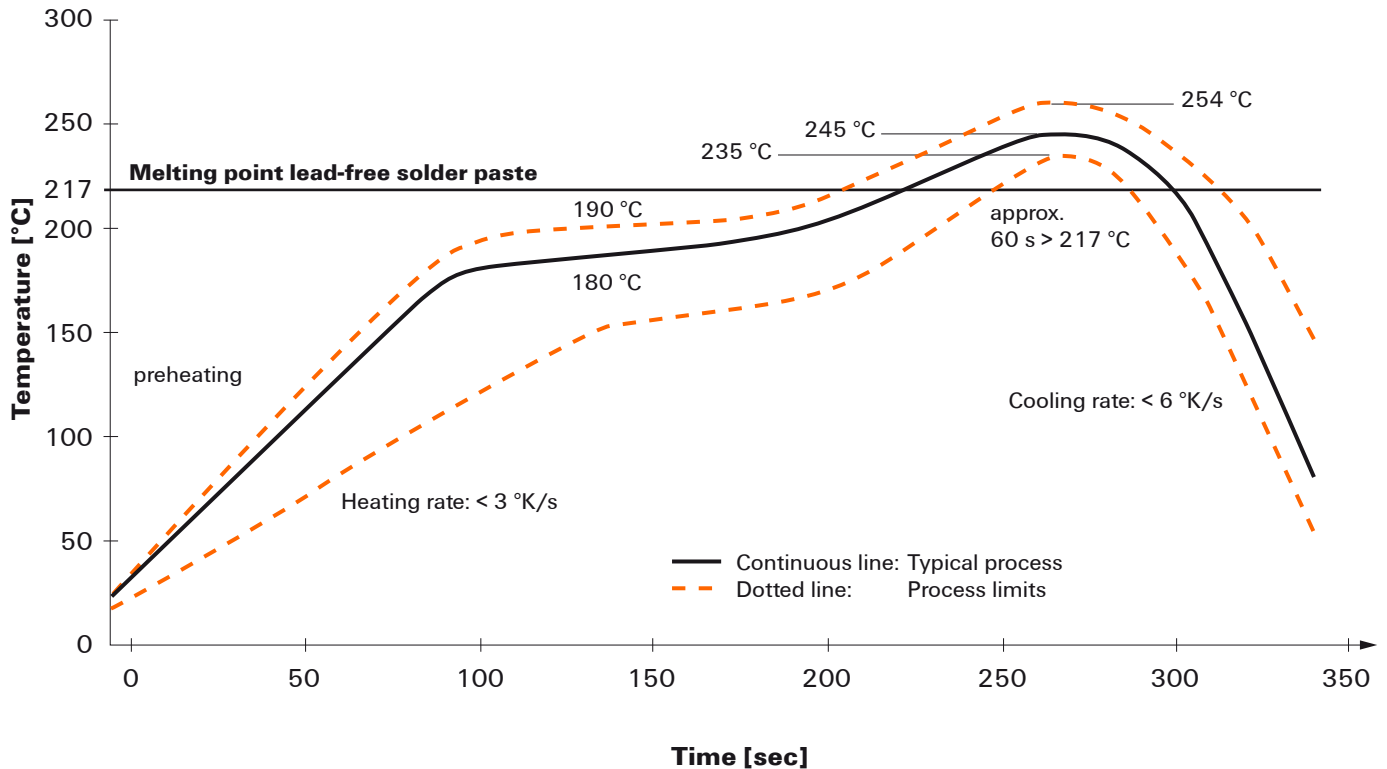
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## Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically  $\leq +3\text{K/s}$ . In parallel the solder paste is 'activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at  $\geq -6\text{K/s}$  solder is cured. Board and components cool down while avoiding cold cracks.