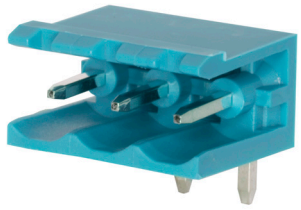
CUI Devices is now Same Sky! Learn More



# SERIES: TBP04R1-500 | DESCRIPTION: TERMINAL BLOCK

## FEATURES

- 2~24 poles
- horizontal orientation
- 5.0 mm pitch
- UL and CE safety approvals



## SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated voltage (per contact) | UL<br>IEC | | | 300<br>400 | V<br>V |
| rated current (per contact) | UL<br>IEC | | | 15<br>10 | A<br>A |
| withstanding voltage | for 1 minute | | 1600 | | Vac |
| surge voltage | | | | 4000 | V |
| contact resistance | | | | 20 | mΩ |
| insulation resistance | at 500 Vdc | 500 | | | MΩ |
| operating temperature | | -40 | | 105 | °C |
| safety approvals | UL 1059, EN61984:2009 | | | | |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

## SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| wave soldering | for maximum 5 seconds | | 250 | | °C |

## TBP04R1-500 - XX XX

Base Number

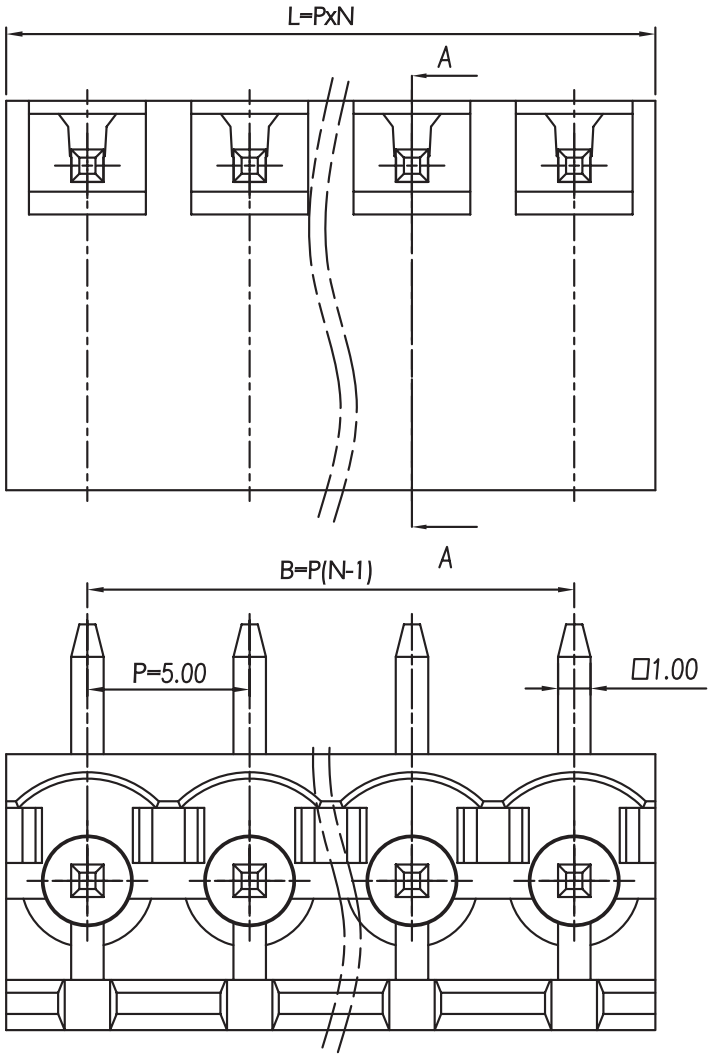
No. of Poles:
02 10 18
03 11 19
04 12 20
05 13 21
06 14 22
07 15 23
08 16 24
09 17

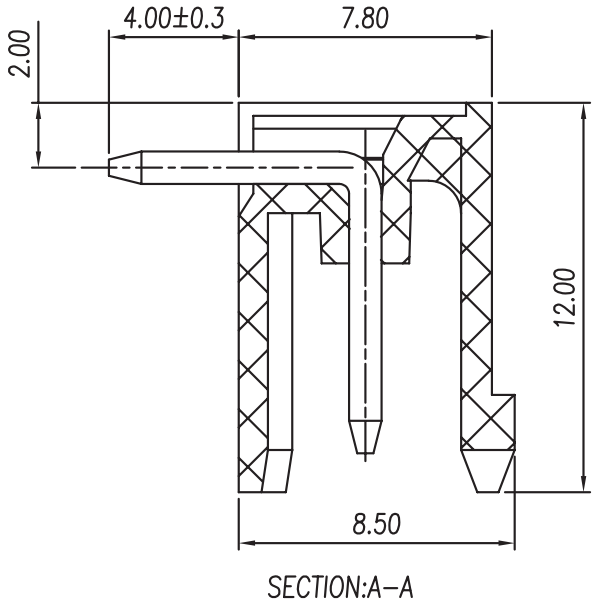
Color:
BE = blue
GR = green

## MECHANICAL DRAWING

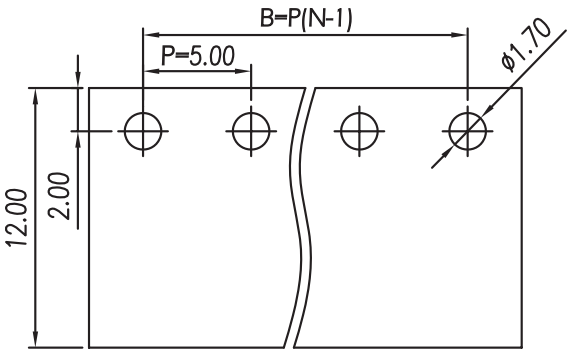
units: mm
tolerance:
X≤6.00: ±0.20 mm
6.00<X≤10.00: ±0.30 mm
10.00<X≤30.00: ±0.50 mm
30.00<X≤60.00: ±0.70 mm
60.00<X≤100.00: ±1.00 mm
100.00<X≤160.00: ±1.30 mm
X>160.00: ±1.60 mm
unless otherwise noted

| DESCRIPTION | MATERIAL | PLATING/COLOR |
|---|---|---|
| housing | PA66 (UL94V-0) | |
| contacts | copper alloy | tin |




SECTION:A–A




Recommended PCB Layout
Top View

| This series is constructed of single piece modules where L is the total length, P is the pitch, and N is the number of poles. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 |
| L | 10.00 | 15.00 | 20.00 | 25.00 | 30.00 | 35.00 | 40.00 | 45.00 | 50.00 | 55.00 | 60.00 | 65.00 |
| B | 5.00 | 10.00 | 15.00 | 20.00 | 25.00 | 30.00 | 35.00 | 40.00 | 45.00 | 50.00 | 55.00 | 60.00 |
| N | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | -- |
| L | 70.00 | 75.00 | 80.00 | 85.00 | 90.00 | 95.00 | 100.00 | 105.00 | 110.00 | 115.00 | 120.00 | -- |
| B | 65.00 | 70.00 | 75.00 | 80.00 | 85.00 | 90.00 | 95.00 | 100.00 | 105.00 | 110.00 | 115.00 | -- |

## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 10/07/2021 |
| 1.01 | logo, datasheet style update | 08/11/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/12/2024 |

The revision history provided is for informational purposes only and is believed to be accurate.

Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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