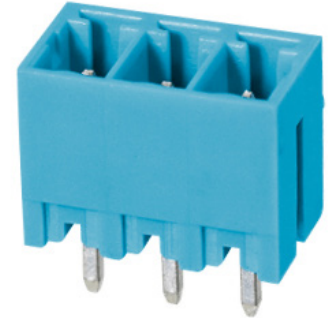


**SERIES:** TBP02R2-381 | **DESCRIPTION:** TERMINAL BLOCK

**FEATURES**

- 2~24 poles
- vertical orientation
- 2~6 poles notch guide
- 3.81 mm pitch
- UL and CE safety approvals


**SPECIFICATIONS**

| parameter                   | conditions/description                      | min | typ  | max  | units |
|-----------------------------|---------------------------------------------|-----|------|------|-------|
| rated voltage (per contact) | UL                                          |     |      | 300  | V     |
|                             | IEC                                         |     |      | 250  | V     |
| rated current (per contact) | UL                                          |     |      | 8    | A     |
|                             | IEC                                         |     |      | 7    | A     |
| withstanding voltage        |                                             |     | 2000 |      | 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, EN 60998-1:2004, EN 60998-2-1:2004 |     |      |      |       |
| flammability rating         | UL94V-0                                     |     |      |      |       |
| RoHS                        | yes                                         |     |      |      |       |

**SOLDERABILITY**

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 10 seconds | 345 | 350 | 355 | °C    |
| wave soldering | for maximum 5 seconds  | 255 | 260 | 265 | °C    |

**PART NUMBER KEY**
**TBP02R2-381 - 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  
OR = orange  
YL = yellow  
GY = gray  
BK = black

## MECHANICAL DRAWING

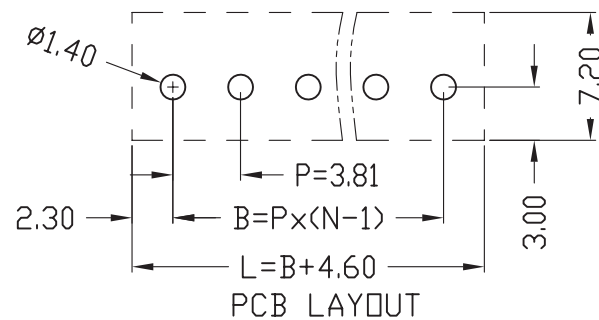
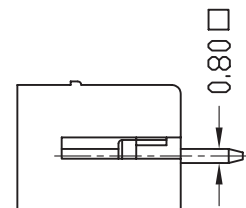
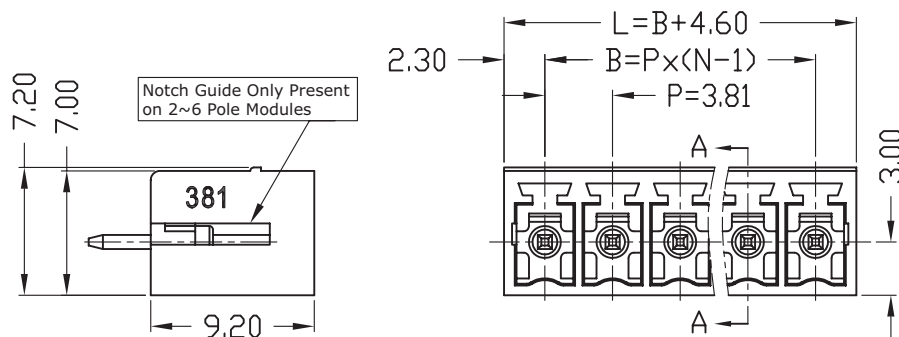
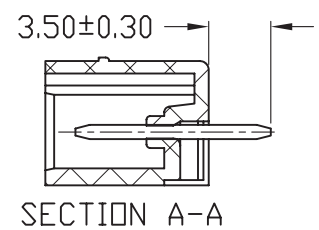
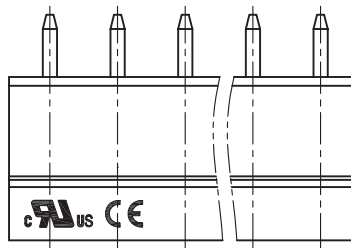
units: mm

tolerance (per module):

 $X \leq 6.00$ :  $\pm 0.25$  mm $6.00 < X \leq 30.00$ :  $\pm 0.40$  mm $30.00 < X \leq 60.00$ :  $\pm 0.60$  mm $60.00 < X \leq 150.00$ :  $\pm 1.00$  mm

unless otherwise noted

| DESCRIPTION | MATERIAL       | PLATING/COLOR |
|-------------|----------------|---------------|
| housing     | PA66 [UL94V-0] |               |
| contacts    | copper alloy   | tin           |



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 | 8.41  | 12.22 | 16.03 | 19.84 | 23.65 | 27.46 | 31.27 | 35.08 | 38.89 | 42.70 | 46.51 | 50.32 |
| B | 3.81  | 7.62  | 11.43 | 15.24 | 19.05 | 22.86 | 26.67 | 30.48 | 34.29 | 38.10 | 41.91 | 45.72 |
| N | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | --    |
| L | 54.13 | 57.94 | 61.75 | 65.56 | 69.37 | 73.18 | 76.99 | 80.80 | 84.61 | 88.42 | 92.23 | --    |
| B | 49.53 | 53.34 | 57.15 | 60.96 | 64.77 | 68.58 | 72.39 | 76.20 | 80.01 | 83.82 | 87.63 | --    |

## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 03/27/2019 |
| 1.01 | brand update                 | 02/07/2020 |
| 1.02 | updated datasheet            | 04/21/2020 |
| 1.03 | logo, datasheet style update | 08/15/2022 |

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



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

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI Devices products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

**cuidevices.com**