

SERIES: TBP02R1W-381 | **DESCRIPTION:** TERMINAL BLOCK

FEATURES

- 2~24 poles
- horizontal orientation
- mating flange
- 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

TBP02R1W-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:

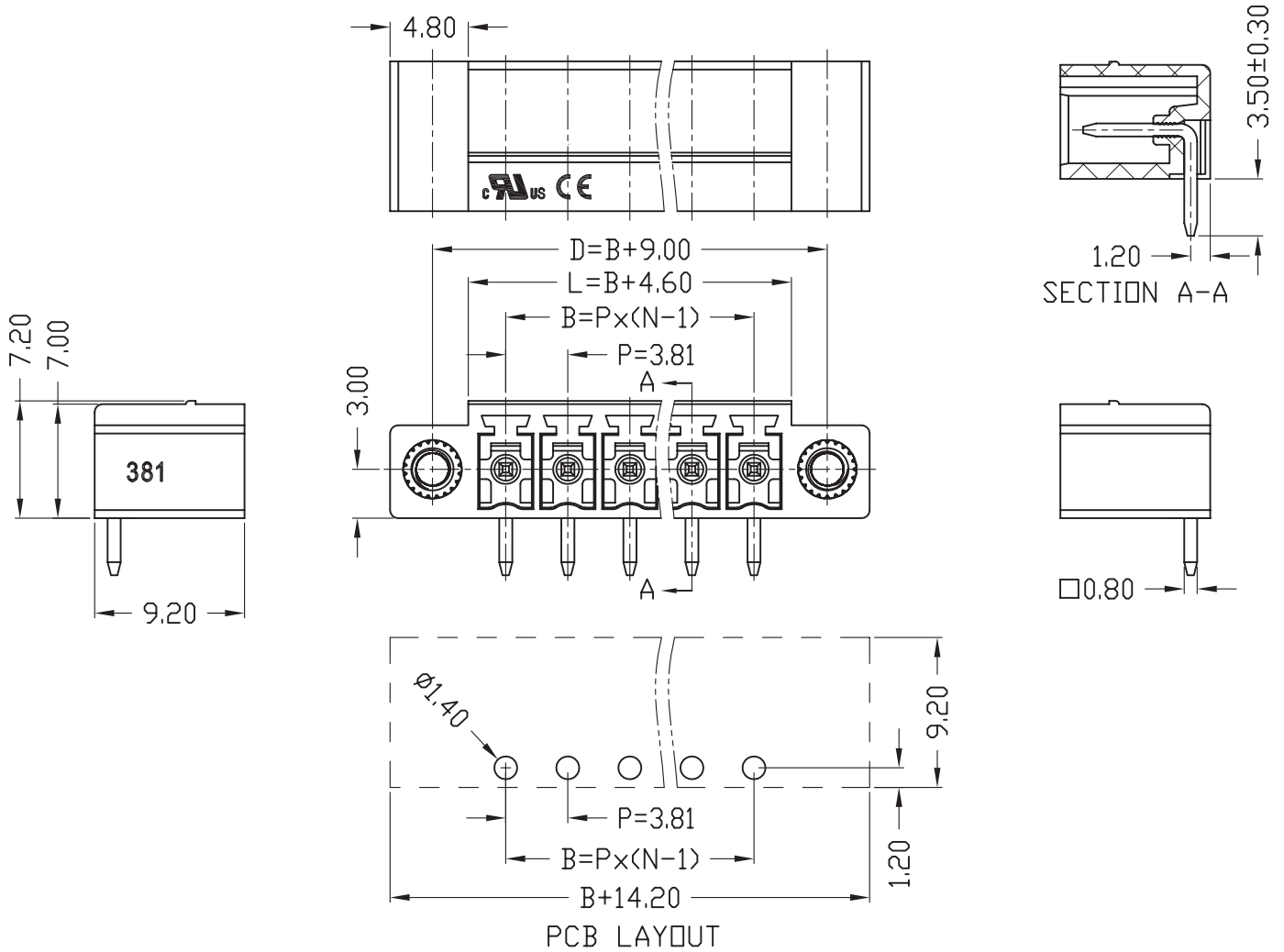
- *BE = blue
- GR = green
- OR = orange
- YL = yellow
- GY = gray
- BK = black

*Standard housing color is blue. All other colors are subject to higher MOQ. Please inquire with CUI Devices sales for details.

MECHANICAL DRAWING

units: mm
 tolerance (per module):
 $X \leq 6.00$: ± 0.25 mm
 $6.00 < X \leq 30.00$: ± 0.40 mm
 $30.00 < X \leq 60.00$: ± 0.60 mm
 $60.00 < X \leq 150.00$: ± 1.00 mm
 unless otherwise noted

| DESCRIPTION | MATERIAL | PLATING/COLOR |
|------------------------------------|----------------|---------------|
| housing | PA66 [UL94V-0] | |
| contacts | copper alloy | tin |
| locking inserts (M2.5, 0.4 N·m) | brass | |



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 |
| D | 12.81 | 16.62 | 20.43 | 24.24 | 28.05 | 31.86 | 35.67 | 39.48 | 43.29 | 47.10 | 50.91 | 54.72 |
| 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 | -- |
| D | 58.53 | 62.34 | 66.15 | 69.96 | 73.77 | 77.58 | 81.39 | 85.20 | 89.01 | 92.82 | 96.63 | -- |

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 | 08/05/2022 |

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.

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