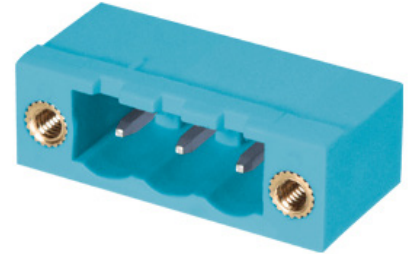


**SERIES:** TBP01R1W-508 | **DESCRIPTION:** TERMINAL BLOCK

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**FEATURES**

- 2~24 poles
- horizontal orientation
- mating flange
- 5.08 mm pitch
- UL and CE safety approvals

**SPECIFICATIONS**

| parameter                   | conditions/description                      | min | typ  | max  | units |
|-----------------------------|---------------------------------------------|-----|------|------|-------|
| rated voltage (per contact) | UL                                          |     |      | 300  | V     |
|                             | IEC                                         |     |      | 320  | V     |
| rated current (per contact) | UL                                          |     |      | 16   | A     |
|                             | IEC                                         |     |      | 20   | A     |
| withstanding voltage        |                                             |     | 2500 |      | 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**

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**TBP01R1W-508 - 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.

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## MECHANICAL DRAWING

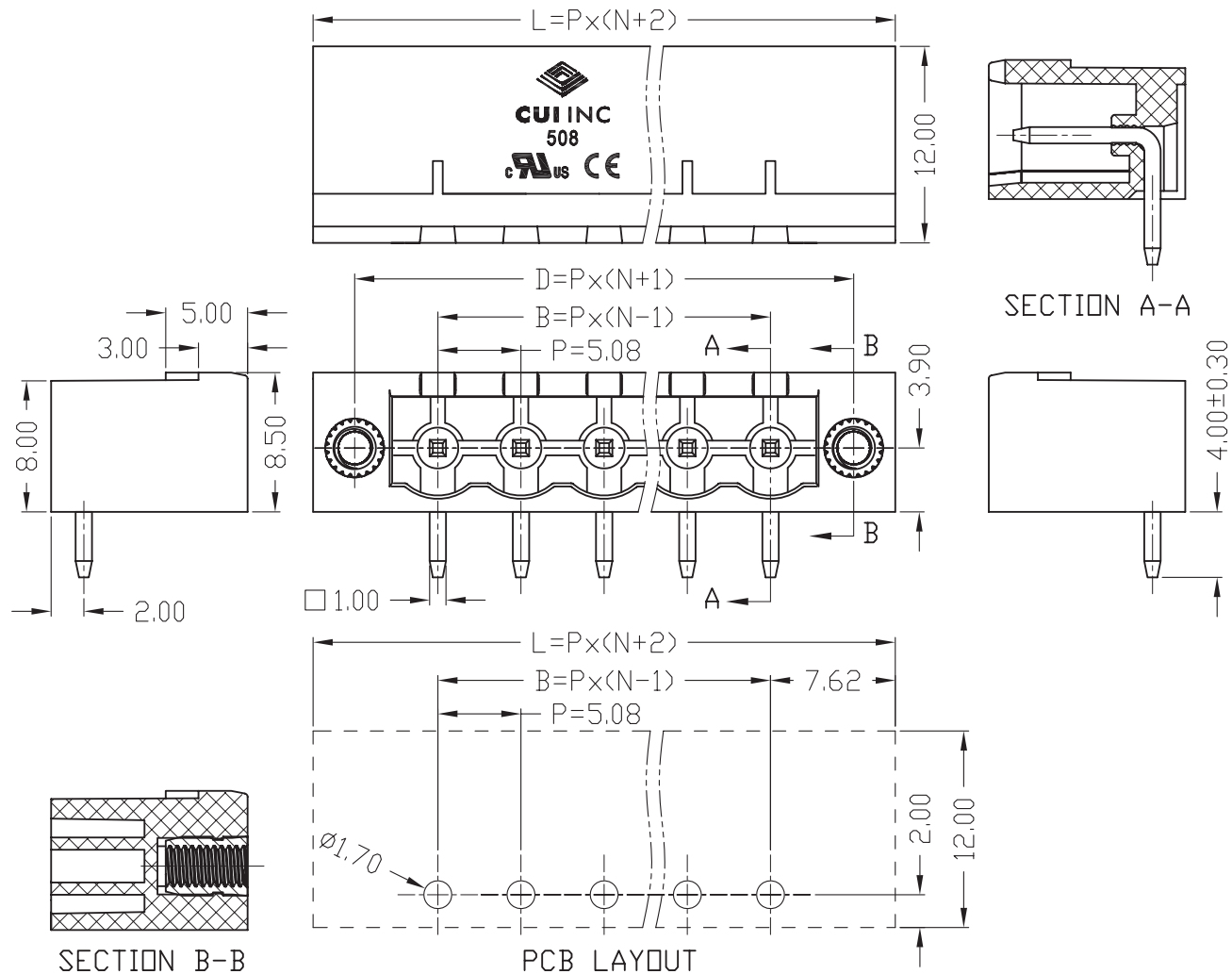
units: mm

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           |
| locking inserts<br>(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 | 20.32 | 25.40 | 30.48 | 35.56 | 40.64  | 45.72  | 50.80  | 55.88  | 60.96  | 66.04  | 71.12  | 76.20 |
| B | 5.08  | 10.16 | 15.24 | 20.32 | 25.40  | 30.48  | 35.56  | 40.64  | 45.72  | 50.80  | 55.88  | 60.96 |
| D | 15.24 | 20.32 | 25.40 | 30.48 | 35.56  | 40.64  | 45.72  | 50.80  | 55.88  | 60.96  | 66.04  | 71.12 |
| N | 14    | 15    | 16    | 17    | 18     | 19     | 20     | 21     | 22     | 23     | 24     | --    |
| L | 81.28 | 86.36 | 91.44 | 96.52 | 101.60 | 106.68 | 111.76 | 116.84 | 121.92 | 127.00 | 132.08 | --    |
| B | 66.04 | 71.12 | 76.20 | 81.28 | 86.36  | 91.44  | 96.52  | 101.60 | 106.68 | 111.76 | 116.84 | --    |
| D | 76.20 | 81.28 | 86.36 | 91.44 | 96.52  | 101.60 | 106.68 | 111.76 | 116.84 | 121.92 | 127.00 | --    |

## REVISION HISTORY

| rev. | description       | date       |
|------|-------------------|------------|
| 1.0  | initial release   | 03/27/2019 |
| 1.01 | brand update      | 02/06/2020 |
| 1.02 | updated datasheet | 04/21/2020 |

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

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# CUI DEVICES

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

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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.