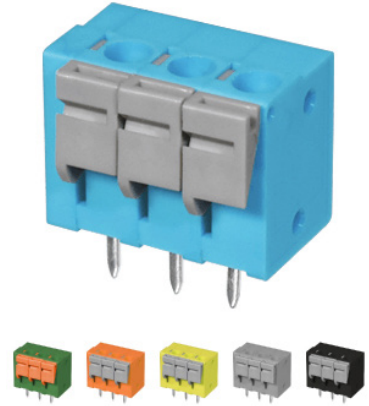


**SERIES:** TBL004V-508 | **DESCRIPTION:** TERMINAL BLOCK**FEATURES**

- 2~24 poles
- vertical with board
- interlocking (side)
- push button clamp
- 5.08 mm pitch
- UL safety approval
- IEC 60947-7-4 compliant

**SPECIFICATIONS**

| parameter                   | conditions/description                     | min | typ  | max  | units |
|-----------------------------|--------------------------------------------|-----|------|------|-------|
| rated voltage (per contact) | UL                                         |     |      | 300  | V     |
|                             | IEC                                        |     |      | 320  | V     |
| rated current (per contact) | UL                                         |     |      | 10   | A     |
|                             | IEC                                        |     |      | 15   | 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 certified, IEC 60947-7-4 compliant |     |      |      |       |
| flammability rating         | UL94V-0                                    |     |      |      |       |
| RoHS                        | yes                                        |     |      |      |       |

**SOLDERABILITY**

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

**PART NUMBER KEY****TBL004V-508 - XX XX - 2XX**

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 |    |

Body Color:

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

Push Button Color:

BE = blue  
GR = green  
OR = orange  
YL = yellow  
\*GY = gray  
BK = black  
WT = white

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

## MECHANICAL DRAWING

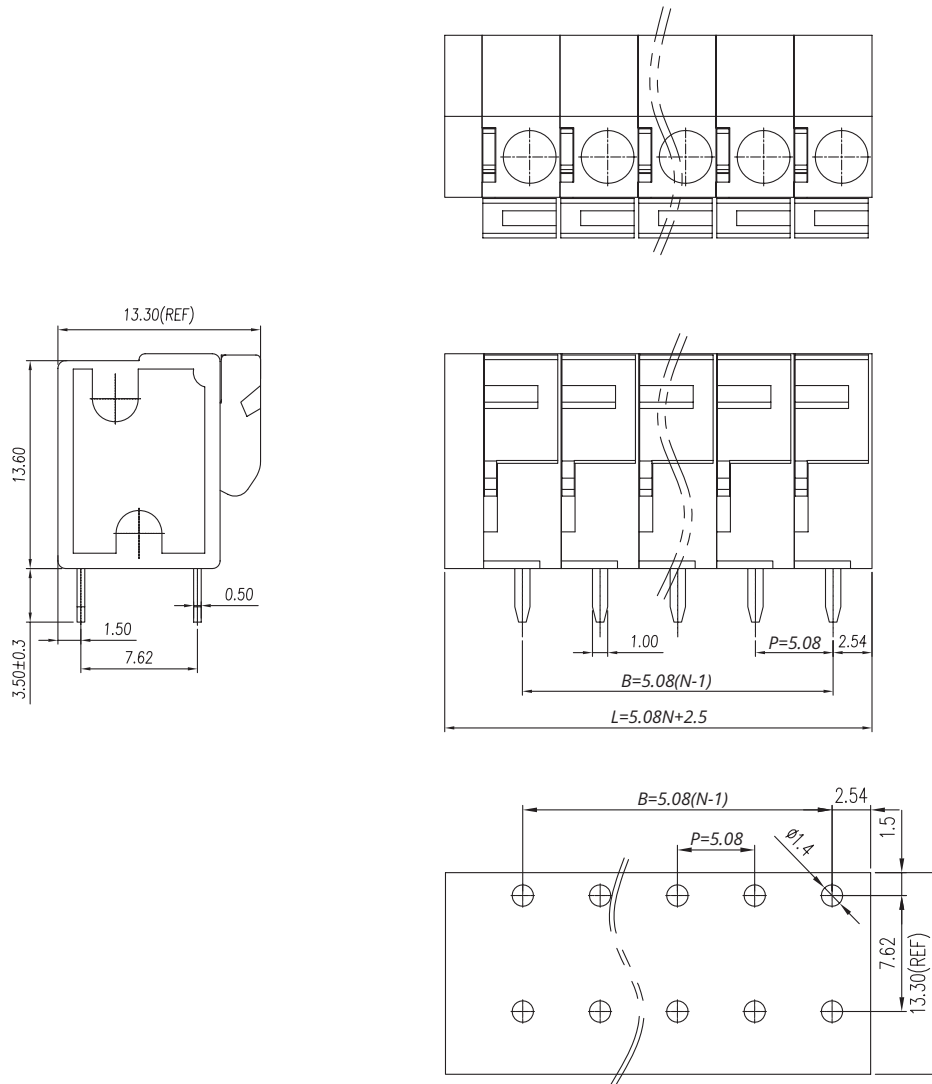
units: mm

tolerance:

 $X \leq 6.00$ :  $\pm 0.20$  mm $6.00 < X \leq 10.00$ :  $\pm 0.30$  mm $10.00 < X \leq 30.00$ :  $\pm 0.50$  mm $30.00 < X \leq 60.00$ :  $\pm 0.70$  mm $60.00 < X \leq 100.00$ :  $\pm 1.00$  mm $100.00 < X \leq 160.00$ :  $\pm 1.30$  mm $X > 160.00$ :  $\pm 1.60$  mm

unless otherwise noted

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



| WIRE ASSEMBLY |           |                         |
|---------------|-----------|-------------------------|
|               | UL        | IEC                     |
| Wire Range    | 24~14 AWG | 0.2~1.5 mm <sup>2</sup> |
| Strip Length  | 10 mm     |                         |

### P.C.B. LAYOUT

This series is constructed of 1 pole 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 | 12.66 | 17.74 | 22.82 | 27.90 | 32.98 | 38.06 | 43.14  | 48.22  | 53.30  | 58.38  | 63.46  | 68.54 |
| 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 |
| N | 14    | 15    | 16    | 17    | 18    | 19    | 20     | 21     | 22     | 23     | 24     | --    |
| L | 73.62 | 78.70 | 83.78 | 88.86 | 93.94 | 99.02 | 104.10 | 109.18 | 114.26 | 119.34 | 124.42 | --    |
| B | 66.04 | 71.12 | 76.20 | 81.28 | 86.36 | 91.44 | 96.52  | 101.60 | 106.68 | 111.76 | 116.84 | --    |

## REVISION HISTORY

| rev. | description       | date       |
|------|-------------------|------------|
| 1.0  | initial release   | 08/13/2019 |
| 1.01 | brand update      | 02/06/2020 |
| 1.02 | updated datasheet | 04/20/2020 |

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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