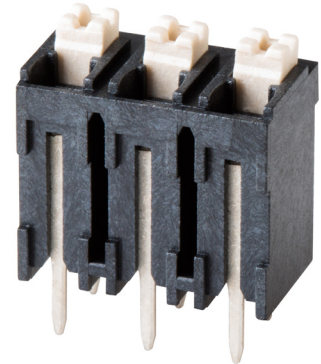


**SERIES:** TBLH10V-508 | **DESCRIPTION:** TERMINAL BLOCK

**FEATURES**

- 2-12 poles
- high temperature housing
- 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 (UL)    | Use Group:<br>B, D   |     |      | 300  | V     |
| rated current (UL)    | Use Group:<br>B, D   |     |      | 10   | A     |
| rated voltage (IEC)   | Overvoltage Category/Pollution Degree:<br>III/3<br>III/2<br>II/2 |     |      | 160  | V     |
|                       |  |     |      | 160  | V     |
|                       |  |     |      | 320  | V     |
| rated current (IEC)   | Overvoltage Category/Pollution Degree:<br>III/3, III/2, II/2     |     |      | 17.5 | A     |
| withstanding voltage  | for 1 minute   |     | 1600 |      | Vac   |
| surge voltage         |  |     |      | 2500 | V     |
| contact resistance    |  |     |      | 20   | mΩ    |
| insulation resistance | at 500 Vdc   | 500 |      |      | MΩ    |
| operating temperature |  | -40 |      | 130  | °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                            |     | 260 |     | °C    |
| reflow soldering | for maximum 10 seconds (pin in paste compatible) |     | 285 |     | °C    |

**PART NUMBER KEY**
**TBLH10V - 508 - XX BK**

Base Number

No. of Poles:

02 08

03 09

04 10

05 11

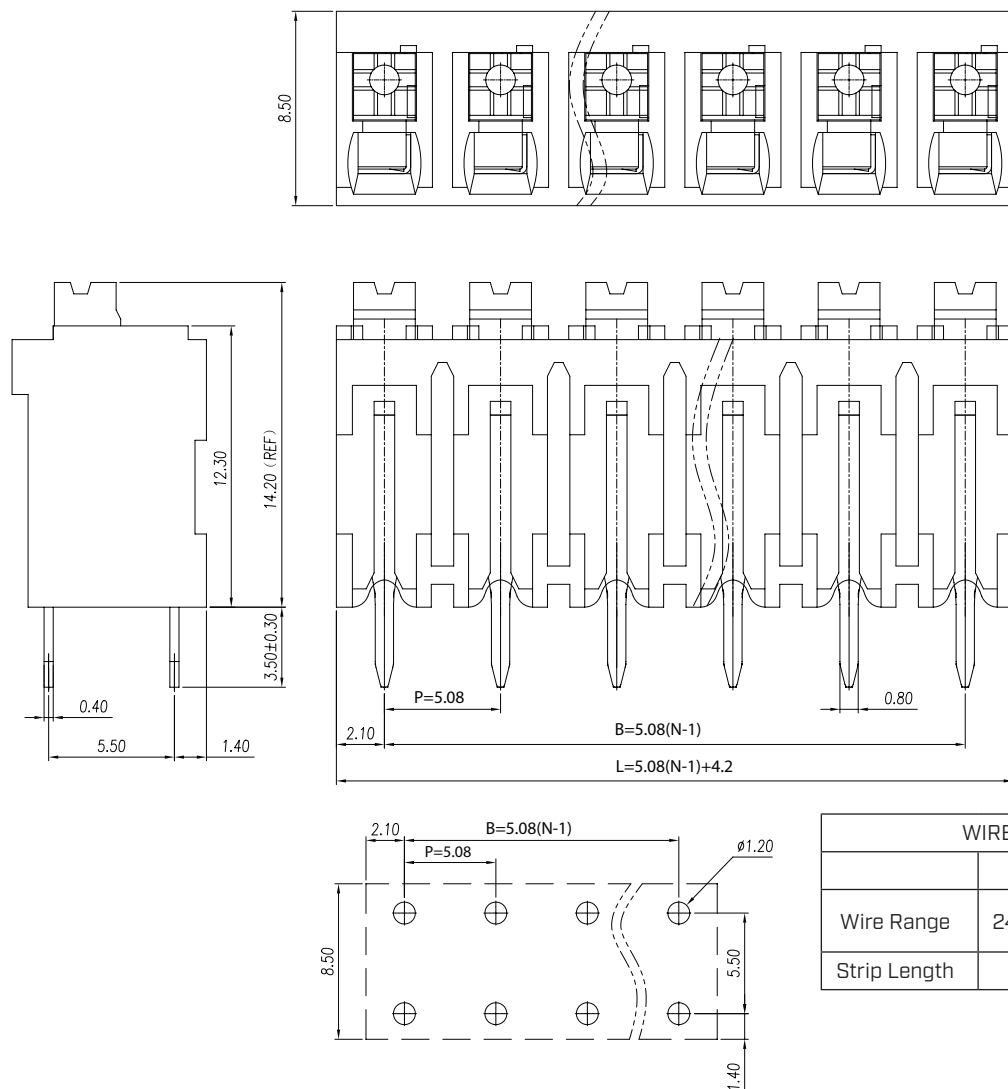
06 12

07

## 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     | LCP (UL94V-0) | black         |
| push button | LCP (UL94V-0) | white         |
| contacts    | copper alloy  | tin           |



|              | WIRE ASSEMBLY |                         |
|--------------|---------------|-------------------------|
|              | UL            | IEC                     |
| Wire Range   | 24~16 AWG     | 0.2~1.5 mm <sup>2</sup> |
| Strip Length | 7~8 mm        |                         |

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    |
| L   | 9.28 | 14.36 | 19.44 | 24.52 | 29.60 | 34.68 | 39.76 | 44.84 | 49.92 | 55.00 | 60.08 |
| B   | 5.08 | 10.16 | 15.24 | 20.32 | 25.40 | 30.48 | 35.56 | 40.64 | 45.72 | 50.80 | 55.88 |

## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 06/29/2023 |

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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