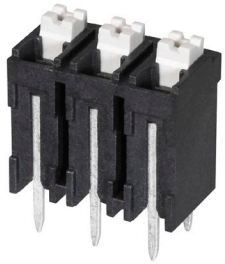
CUI DEVICES



## **SERIES:** TBLH10V-500 | **DESCRIPTION:** TERMINAL BLOCK

### FEATURES

- 2~24 poles
- vertical with board
- high temperature housing
- push button clamp
- 5.00 mm pitch
- UL safety approval
- IEC 60947-7-4 compliant



## SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated voltage (per contact) | UL<br>IEC | | | 300<br>320 | V<br>V |
| rated current (per contact) | UL<br>IEC | | | 10<br>17.5 | A<br>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 | | 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 10 seconds | | 285 | | °C |

## PART NUMBER KEY

**TBLH10V-500 - XX BK**

Base Number

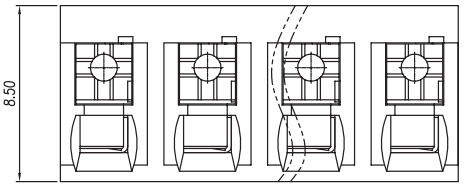
No. of Poles:

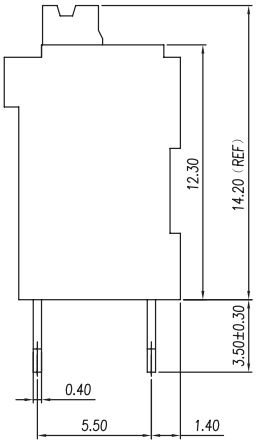
| | |
|---|---|
| 02 | 14 |
| 03 | 15 |
| 04 | 16 |
| 05 | 17 |
| 06 | 18 |
| 07 | 19 |
| 08 | 20 |
| 09 | 21 |
| 10 | 22 |
| 11 | 23 |
| 12 | 24 |
| 13 | |

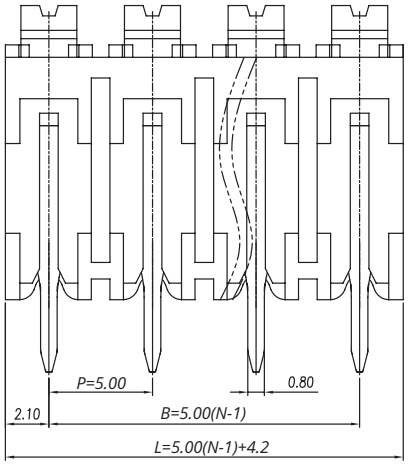
## MECHANICAL DRAWING

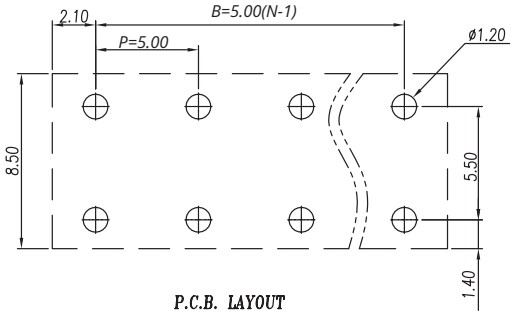
units: mm
tolerance:
X≤6.00: ±0.20 mm
6.00<X≤10.00: ±0.30 mm
10.00<X≤30.00: ±0.50 mm
30.00<X≤60.00: ±0.70 mm
60.00<X≤100.00: ±1.00 mm
100.00<X≤160.00: ±1.30 mm
X>160.00: ±1.60 mm
unless otherwise noted

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




P.C.B. LAYOUT

| WIRE ASSEMBLY | | |
|---|---|---|
| | UL | IEC |
| Wire Range | 24~16 AWG | 0.2~ 1.5 mm² |
| Strip Length | 7~8 mm | |

| 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 | 9.20 | 14.20 | 19.20 | 24.20 | 29.20 | 34.20 | 39.20 | 44.20 | 49.20 | 54.20 | 59.20 | 64.20 |
| B | 5.00 | 10.00 | 15.00 | 20.00 | 25.00 | 30.00 | 35.00 | 40.00 | 45.00 | 50.00 | 55.00 | 60.00 |
| N | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | -- |
| L | 69.20 | 74.20 | 79.20 | 84.20 | 89.20 | 94.20 | 99.20 | 104.20 | 109.20 | 114.20 | 119.20 | -- |
| B | 65.00 | 70.00 | 75.00 | 80.00 | 85.00 | 90.00 | 95.00 | 100.00 | 105.00 | 110.00 | 115.00 | -- |

## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 08/13/2019 |
| 1.01 | brand update | 02/06/2020 |

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

CUI DEVICES

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