

**SERIES:** TBLH10-500 | **DESCRIPTION:** TERMINAL BLOCK

**FEATURES**

- 2~24 poles
- horizontal 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   |     |      | 300  | V     |
|                             | IEC  |     |      | 320  | V     |
| rated current (per contact) | UL   |     |      | 10   | A     |
|                             | IEC  |     |      | 17.5 | 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**
**TBLH10-500 - XX BK**

Base Number

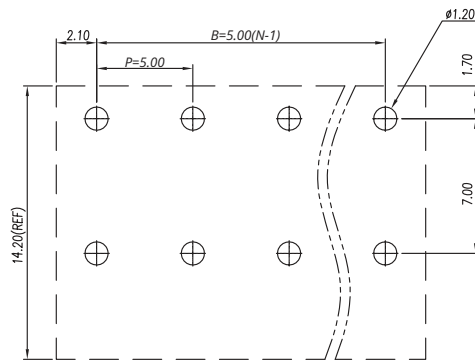
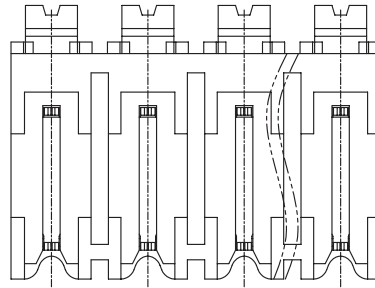
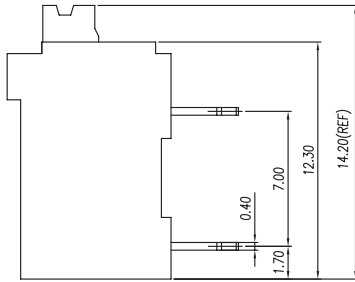
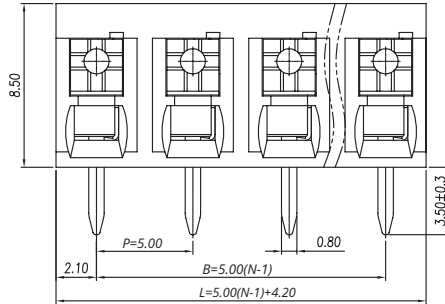
No. of Poles:

|    |    |
|----|----|
| 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:  
 $X \leq 6.00$ :  $\pm 0.20$  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) |               |
| 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    |                         |

### P.C.B. LAYOUT

| 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 |
| 1.02 | logo, datasheet style update | 08/12/2022 |

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



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