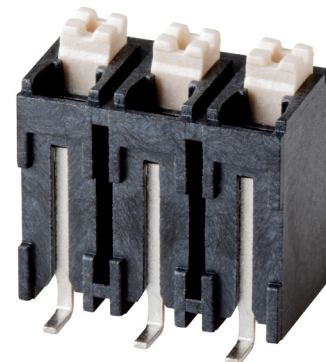


SERIES: TBLH12V-500 | **DESCRIPTION:** TERMINAL BLOCK**FEATURES**

- 2~12 poles
- 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 (UL) | Use Group: B, D | | | 300 | V |
| rated current (UL) | Use Group: B, D | | | 10 | A |
| rated voltage (IEC) | Overvoltage Category/Pollution Degree: III/3 | | | 250 | V |
| | III/2 | | | 320 | V |
| | II/2 | | | 500 | V |
| rated current (IEC) | Overvoltage Category/Pollution Degree: III/3, III/2, II/2 | | | 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 |
|------------------|------------------------|-----|-----|-----|-------|
| reflow soldering | for maximum 10 seconds | | 285 | | °C |

PART NUMBER KEY**TBLH12V - 500 - XX BK**

Base Number

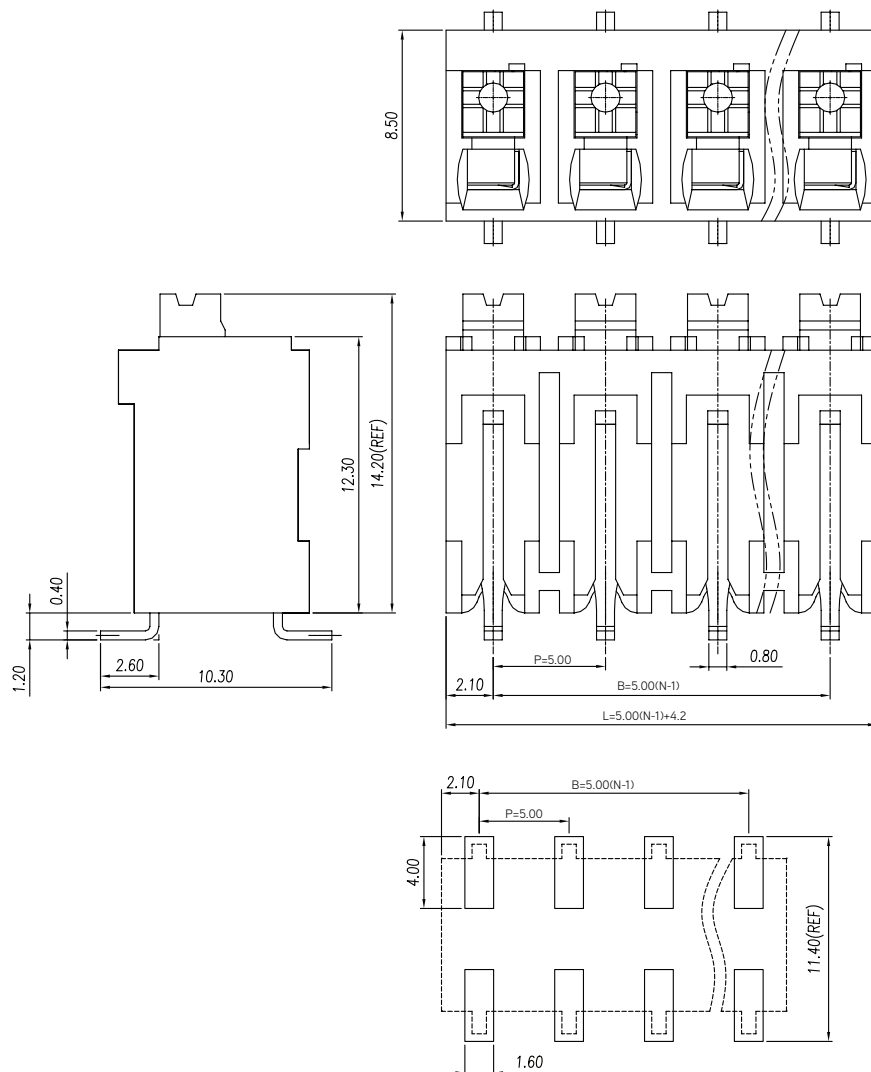
No. of Poles:

| | |
|----|----|
| 02 | 08 |
| 03 | 09 |
| 04 | 10 |
| 05 | 11 |
| 06 | 12 |
| 07 | |

MECHANICAL DRAWING

units: mm
tolerance:
 $X \leq 6.00$: ± 0.20 mm
 $6.00 < X \leq 10.00$: ± 0.30 mm
 $10.00 < X \leq 30.00$: ± 0.50 mm
 $30.00 < X \leq 60.00$: ± 0.70 mm
 $60.00 < X \leq 100.00$: ± 1.00 mm
 $100.00 < X \leq 160.00$: ± 1.30 mm
 $X > 160.00$: ± 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 |



Recommended PCB Layout
Top View

| WIRE ASSEMBLY | | |
|---------------|-----------|-------------------------|
| | UL | IEC |
| Wire Range | 24~16 AWG | 0.2~1.5 mm ² |
| 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 |
|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 9.20 | 14.20 | 19.20 | 24.20 | 29.20 | 34.20 | 39.20 | 44.20 | 49.20 | 54.20 | 59.20 |
| B | 5.00 | 10.00 | 15.00 | 20.00 | 25.00 | 30.00 | 35.00 | 40.00 | 45.00 | 50.00 | 55.00 |

REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 07/06/2023 |

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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