

**SERIES:** TBP03R12-350 | **DESCRIPTION:** TERMINAL BLOCK

**FEATURES**

- 2~24 poles
- horizontal orientation
- 3.50 mm pitch
- UL and CE safety approvals



**SPECIFICATIONS**

| parameter                   | conditions/description | min | typ  | max  | units |
|-----------------------------|------------------------|-----|------|------|-------|
| rated voltage (per contact) | UL                     |     |      | 300  | V     |
|                             | IEC                    |     |      | 250  | V     |
| rated current (per contact) | UL                     |     |      | 8    | A     |
|                             | IEC                    |     |      | 8    | 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, EN61984:2009  |     |      |      |       |
| 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**

**TBP03R12-350 - XX BK**

Base Number

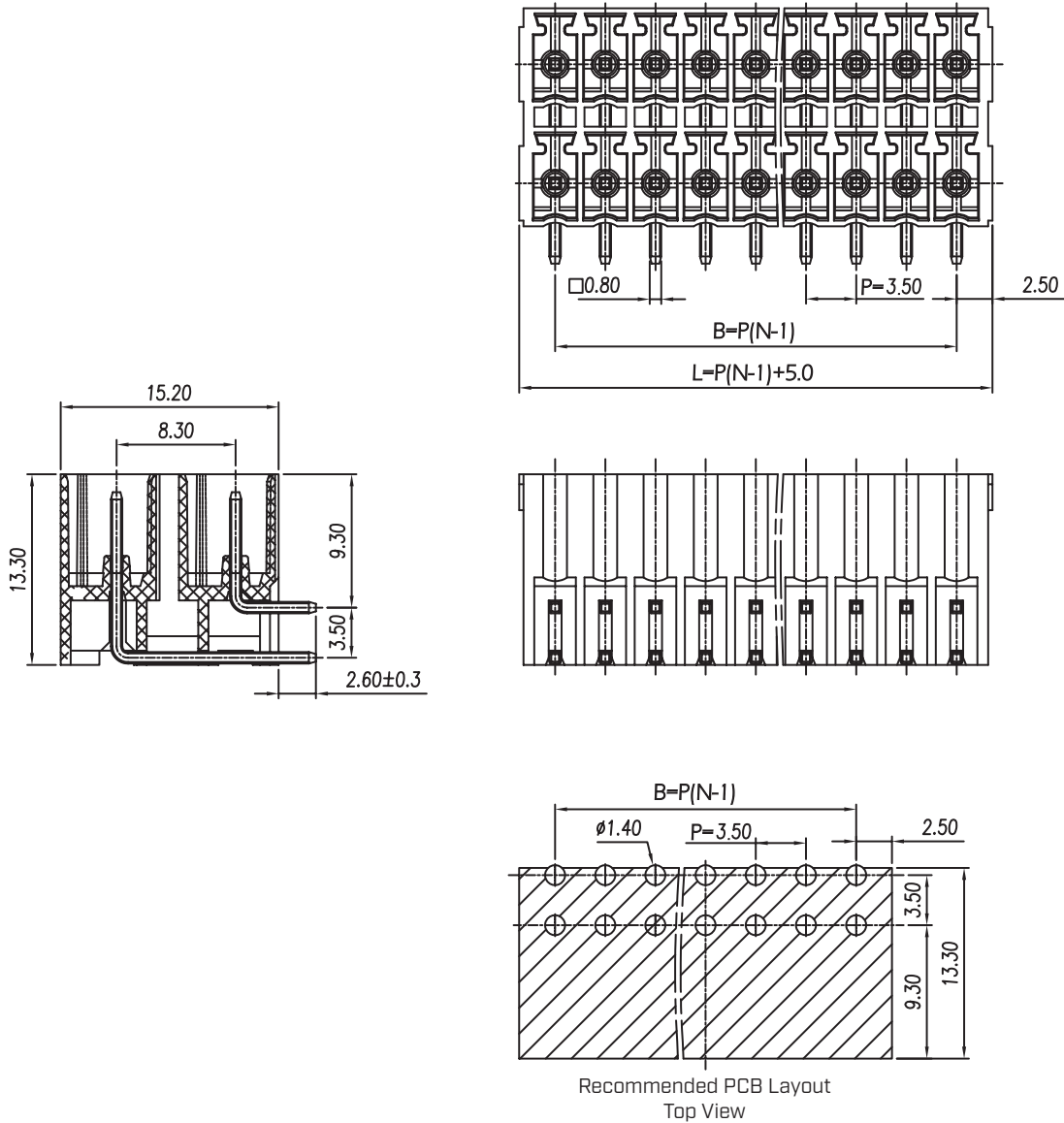
No. of Poles:

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

## 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           |



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    | 13    |
| L   | 8.50  | 12.00 | 15.50 | 19.00 | 22.50 | 26.00 | 29.50 | 33.00 | 36.50 | 40.00 | 43.50 | 47.00 |
| B   | 3.50  | 7.00  | 10.50 | 14.00 | 17.50 | 21.00 | 24.50 | 28.00 | 31.50 | 35.00 | 38.50 | 42.00 |
| N   | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | --    |
| L   | 50.50 | 54.00 | 57.50 | 61.00 | 64.50 | 68.00 | 71.50 | 75.00 | 78.50 | 82.00 | 85.50 | --    |
| B   | 45.50 | 49.00 | 52.50 | 56.00 | 59.50 | 63.00 | 66.50 | 70.00 | 73.50 | 77.00 | 80.50 | --    |

## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 10/07/2021 |
| 1.01 | 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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