CUI DEVICES

SERIES: TB003V-500 | DESCRIPTION: TERMINAL BLOCK

FEATURES
- 2~24 poles
- vertical with board
- interlocking (side)
- 5.0 mm pitch
- UL and CE safety approvals

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage (per contact)	UL IEC			300 250	V V
rated current (per contact)	UL IEC			10 18	A A
withstanding voltage			2500		Vac
surge voltage				4000	V
contact resistance				20	mΩ
insulation resistance	at 500 Vdc	500			MΩ
operating temperature		-40		105	°C
safety approvals	UL 1059, EN 60998-1:2004, EN 60998-2-1:2004				
flammability rating	UL94V-0				
RoHS	yes				

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 10 seconds	345	350	355	°C
wave soldering	for maximum 5 seconds	255	260	265	°C

PART NUMBER KEY

TB003V-500 - X XX XX

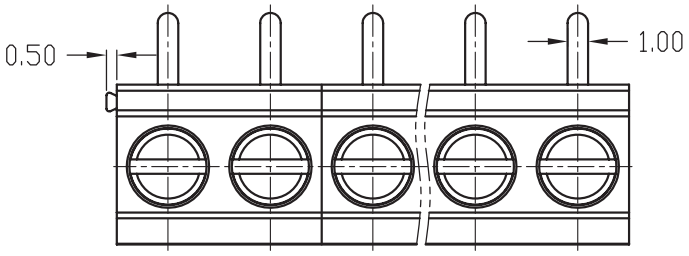
Base Number	Screw Type:	No. of Poles:			Color:
	"blank" = Slot	02	10	18	*BE = blue
	P = Phillips	03	11	19	GR = green
		04	12	20	OR = orange
		05	13	21	YL = yellow
		06	14	22	GY = gray
		07	15	23	BK = black
		08	16	24	
		09	17		

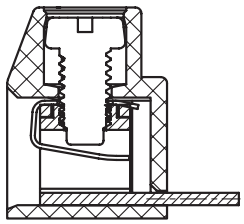
*Standard housing color is blue. All other colors are subject to higher MOQ. Please inquire with CUI Devices sales for details.

MECHANICAL DRAWING

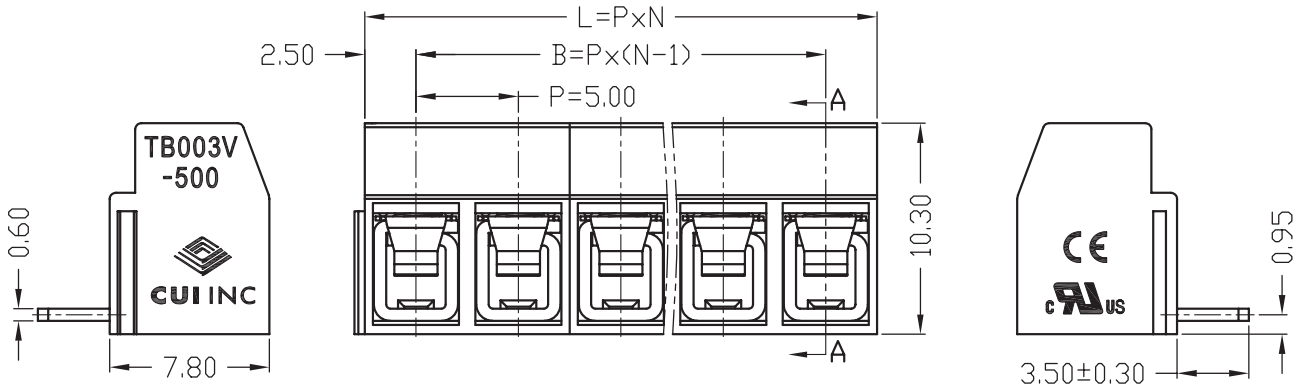
units: mm
tolerance (per module):
X≤6.00: ±0.25 mm
6.00<X≤30.00: ±0.40 mm
unless otherwise noted

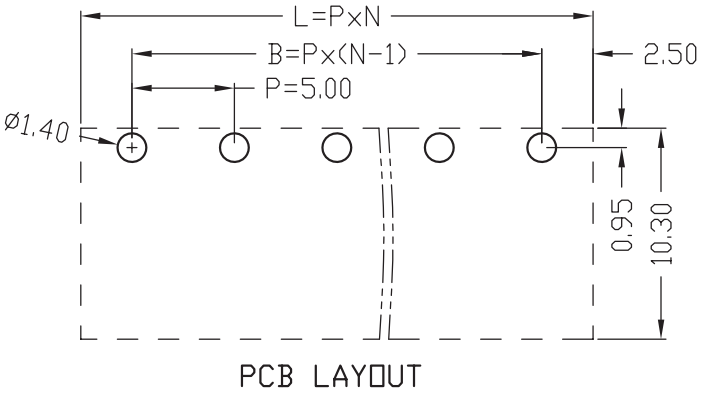
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PA66 (UL94V-0)	
contacts	copper alloy	tin
screws	steel	zinc
spring	stainless steel	





SECTION A-A





PCB LAYOUT

WIRE ASSEMBLY		
	UL	IEC
Wire Range	26~14 AWG	2.5 mm²
Strip Length	6~7 mm	
Screw Size	M2.5	
Screw Torque	0.4 N·m	

This series can be constructed of 2 and 3 pole 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	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00
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	70.00	75.00	80.00	85.00	90.00	95.00	100.00	105.00	110.00	115.00	120.00	--
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	03/12/2019
1.01	brand update	02/06/2020
1.02	updated datasheet	04/20/2020

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

CUI DEVICES

CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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