

BOARD MOUNT REFLOW TERMINAL BLOCK

TE Connectivity (TE)'s PCB terminal blocks feature various versions and wire termination methods, including rising clamp technology, push-in clamp and screw clamp. The design of PCB terminal blocks exists of one-piece board mount terminal blocks and two-piece plug connectors with mating straight and right-angle shrouded headers. The board mount terminal blocks and PCB headers are stackable end-to-end without loss of centerline spacing.

This specific board mount reflow terminal block series covers a variety of one-piece, vertical, low profile, surface mount terminal blocks in high-temperature resistant material with rising clamp technology via screw termination. It is an important extension of the TE PCB terminal block portfolio for automated reflow production.

BENEFITS

- The small dimensions and reflow capability creates great opportunities for building automation applications where space savings are key to drive smaller overall device size or to increase electronic content within the existing application space
- Easy termination and aligned to trend of moving from wave to reflow soldering, allowing for automated assembly lines and option for soldering on both sides of the board
- Smaller sized and low weight components can easily become unstable during the soldering process. A closed clamp and adding positioning pegs increases stability and improves planarity, significantly reducing problems during the soldering process

Board Mount Reflow Terminal Block

FEATURE

- **Centerline:** 3.5 mm/.138", 3.81 mm/.150", 5 mm/.197"
- **Connector size:** Single row, 2 - 12 positions
- Reflow solder capable to 260° C

APPLICATIONS

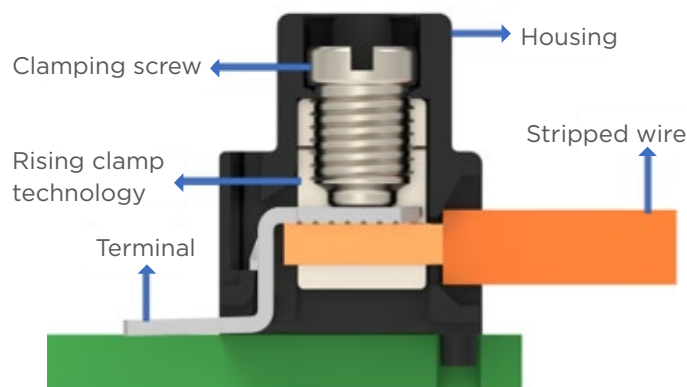
- Building automation
- HVAC
- Lighting
- Elevator
- Building entry & security

MATERIALS

- **Housing:** High temp polyamide, UL94 V0
- **Terminal:** Copper alloy, nickel & tin plated
- **Rising clamp technology:** Copper alloy, nickel plated
- **Clamping screw:** Copper alloy, nickel plated

STANDARD

- RoHS & REACH compliant
- UL recognized 



ELECTRICAL

Series	2383941	2383942	2383945	2383938
Operating voltage (UL)	300 V			
Current rating (UL)	7A	12A	12A	13.5A
Insulation resistance	>1000 MΩ (500V DC)			
Contact resistance	<15 mΩ			
Operating temp range	-40° C to 105° C (-40° F to +221° F)			

MECHANICAL

Series	2383941	2383942	2383945	2383938
Height	7.5 mm	8.5 mm	8.5 mm	10 mm
Pitch	3.81 mm	3.5 mm	3.81 mm	5 mm
Available positions	2 - 12			
Clamping screw size	M2	M2	M2	M3
Recommended/highest tightening torque (Nm)	0.2/0.25	0.2/0.25	0.2/0.25	0.5/0.6
Wire range - AWG	18 to 28	16 to 28	16 to 28	16 to 30
Wire stripping length (mm)	5 to 6			
PCB thickness (max) (mm)	2.4			
PCB hole diameter for peg (min) (mm)	1.4			

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PART NUMBER LIST

Type	Images	Pitch	Base number	Available positions
SMT header		3.81 mm	2383941	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
		3.5 mm	2383942	
		3.81 mm	2383945	
		5 mm	2383938	

Positions	Base number	Part number
2	XXXXXXX	XXXXXXX-2
3	XXXXXXX	XXXXXXX-3
4	XXXXXXX	XXXXXXX-4
5	XXXXXXX	XXXXXXX-5
6	XXXXXXX	XXXXXXX-6
7	XXXXXXX	XXXXXXX-7
8	XXXXXXX	XXXXXXX-8
9	XXXXXXX	XXXXXXX-9
10	XXXXXXX	1-XXXXXXX-0
11	XXXXXXX	1-XXXXXXX-1
12	XXXXXXX	1-XXXXXXX-2

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