

PK 250

10291.1

PK 250/5.08/2V 2P PCB VERT RC

- Wire-to-board connections
- Flame-retardant polyamide 6.6
- Is rated up to 24 A at 320 V



PRODUCT DESCRIPTION

The PK 250 fixed PCB connector from CONTA-CLIP, available on OEM Automatic's website, is a robust clamping-yoke terminal block designed for secure wire-to-board connections in industrial electronics. This series uses a screw connection system with a clamping yoke mechanism, ensuring excellent contact pressure and vibration resistance. It features a standard pitch of 5.08 mm, with multiple pole configurations (e.g., 2- to 12-pole variants) to suit a variety of circuit designs. The connector is constructed from flame-retardant polyamide 6.6 (UL 94 V-0) and includes brass/steel screw terminals with slotted screws. It typically supports wire sizes up to 2.5 mm² (approx. AWG 12–14) and is rated for up to 24 A at 320 V depending on the configuration. The terminal is also designed for wave soldering, with PCB pin diameters around 1 mm and matching drill hole sizes of about 1.3 mm.

The PK 250 is ideal for use in power supply units, automation controllers, HVAC modules, industrial I/O boards, and building automation systems, where compact, reliable, and secure wire terminations are essential. Its rugged construction ensures long-term mechanical and electrical stability, even under harsh conditions such as vibration or thermal cycling. The modular design allows for straightforward integration into standard PCB layouts, while the screw-type connection simplifies maintenance and field wiring changes. These connectors are especially valued in control cabinet assemblies and electrical distribution boards where reliable performance and compliance with safety standards are critical.

TECHNICAL DATA

GENERAL DATA

Type	PCB terminal
Pitch	5.08 mm
Colour	Green
Number of poles	2
Approvals	UL, cUL, VDE

RATINGS

Rated current	13 A
Rated voltage	250 V
Rated cross section	1.5 mm ²
Rated impulse voltage	2 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	8.1 mm
Width	10.76 mm
Height	10 mm
Width left	3.14 mm
Width right	2.54 mm
Drillhole diameter	1.3 mm
Diameter of the connection pin	0.9 mm
Length of pin	3.5 mm

CONNECTION DATA

Connector type/principle	Screw
Number of levels	1
Angle of PCB/wire connection	0°/180° (horizontal)
Type of attachment to PCB	Connecting contact
Electrical connection type to PCB	Solder
Cross section single wire from	0.14 mm ²
Cross section single wire to	1.5 mm ²
Cross section stranded wire from	0.14 mm ²
Cross section stranded with ferrule to	1.5 mm ²
Cross section stranded wire to	1.5 mm ²
Cross section stranded with ferrule from	0.25 mm ²
Rated wire cross section to (AWG)	14
Rated wire cross section from (AWG)	28
Stripping length	6 mm
Screw size	M 3
Torque	0.5

MATERIALS

Housing material	Polyamide 6.6
Flammability class	UL94-V0
Operating temperature from	-30 °C
Operating temperature to	105 °C
Solder lug	Bronze
Screw material	Steel
Clamp material	Brass

APPROVALS

UL test standard	UL 1059
Rated voltage UL	300 V
Rated current UL	15 A
cUL test standard	C22.2 No 158
Rated voltage cUL	300 V
Rated current cUL	15 A
VDE test standard	DIN EN 60998
Rated voltage VDE	250 V
Rated current VDE	13 A

Recommended wave solder duration max	4 s
Recommended wave solder duration min	3 s
Recommended wave soldering temperature	265 °C
Tariff code	85369010
Pack size	50
Weight	1.8 g
Connection cycles acc. to standard	5
Country of origin	QU
Current creepage resistance	CTI 600
Glow wire flammability index (GWFI)	GWFI 850
Glow wire ignition temperature (GWIT)	GWIT 775
GWFI after-glow time	30 s
GWIT exposure time	5 s
Insulation resistance	$1 \cdot 10^{13} \Omega \times \text{cm}$



