

PBKZ 4791

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PBKZ 4791/2/2,54-H-KD GN

- Push-in Connection
- 0.75 mm² Maximum conductor cross-section
- 9 A up to 130 V



PRODUCT DESCRIPTION

The PBKZ 4791 family comprises single-level PCB terminal blocks with push-in (pressure-spring) connection technology, available in various pole configurations with a 2.54 mm pitch and compact footprint. The contact pins have a diameter of 0.7 mm, require a 1.2 mm drill hole and extend ~3.5 mm for solder connection. Rated for a maximum conductor cross-section of 0.75 mm² (strip length ~10 mm), AWG 26–18 solid or stranded (with ferrules limited to 0.14 mm²). Electrical specifications include 9 A at up to 130 V, impulse voltage resistance of 1.25 kV, contamination class 3, and overvoltage category III. The housing is flame-retardant PBT (UL 94 V-0), with CTI rating 600, insulation resistance $\geq 1 \times 10^{13} \Omega \cdot \text{cm}$, glow-wire ignition rating GWIT 775 °C / GWF1 850 °C, and wave-soldering capability at 265 °C for 3–4 sec. It supports around 10 connection cycles and operates between –40 °C and +105 °C. Approvals include UL 1059, CSA 22.2 No. 158, and VDE EN 60998 compliance.

The PBKZ 4791 terminal blocks are ideal for space-constrained PCB assemblies that require fast and reliable wire connections, especially in compact control electronics, signal interfaces, and small-scale distribution boards. The push-in design enables tool-free conductor insertion, simplifying wiring during assembly and reducing potential operator error. They're particularly useful for connecting low-current signal lines, sensor wiring, or discrete I/O lines in automation, industrial control cabinets, or test equipment, where quick installation and compact layout are priorities. The high flame-resistance, insulation durability, and global safety approvals also make the PBKZ 4791 suitable for certified electronic modules, embedded controllers, or PCB-mounted relays in machinery and building-automation systems.

TECHNICAL DATA

GENERAL DATA

Type	PCB terminal
Pitch	2.54 mm
Colour	Green
Number of poles	2
Approvals	UL, cUL, VDE

RATINGS

Rated current	9 A
Rated voltage	130 V
Rated cross section	0.75 mm ²
Rated impulse voltage	1.25 kV
Overvoltage category	III
Contamination degree	3

DIMENSIONS

Length	12.6 mm
Width	7.62 mm
Height	13.6 mm
Width left	0.9 mm
Width right	4.18 mm
Drillhole diameter	1.2 mm
Diameter of the connection pin	0.7 mm
Length of pin	3.5 mm

CONNECTION DATA

Connector type/principle	Push-in
Number of levels	1
Angle of PCB/wire connection	0°/180° (horizontal)
Type of attachment to PCB	Solder
Electrical connection type to PCB	Connecting contact
Cross section single wire from	0.14 mm ²
Cross section single wire to	0.75 mm ²
Cross section stranded wire from	0.14 mm ²
Cross section stranded with ferrule to	0.14 mm ²
Cross section stranded wire to	0.75 mm ²
Cross section stranded with ferrule from	0.14 mm ²
Rated wire cross section to (AWG)	18
Rated wire cross section from (AWG)	26
Stripping length	10 mm

MATERIALS

Housing material	Polybutylene terephthalate
Flammability class	UL94-V0
Operating temperature from	-30 °C
Operating temperature to	105 °C
Terminal spring	Stainless steel
Solder lug	Brass

APPROVALS

UL test standard	UL 1059
Rated voltage UL	150 V

Rated current UL	6 A
cUL test standard	CSA 22.2 No.158
Rated voltage cUL	150 V
Rated current cUL	6 A
VDE test standard	DIN EN 60998
Rated voltage VDE	130 V
Rated current VDE	9 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	1.35 g
Connection cycles acc. to standard	10
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*10 ¹³ Ω x cm



