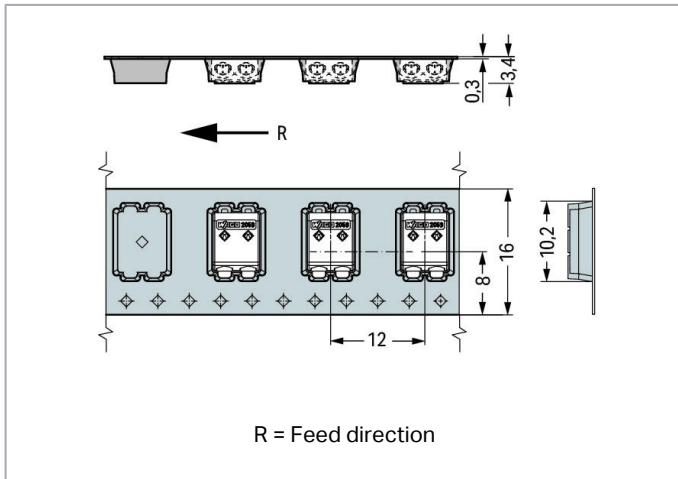
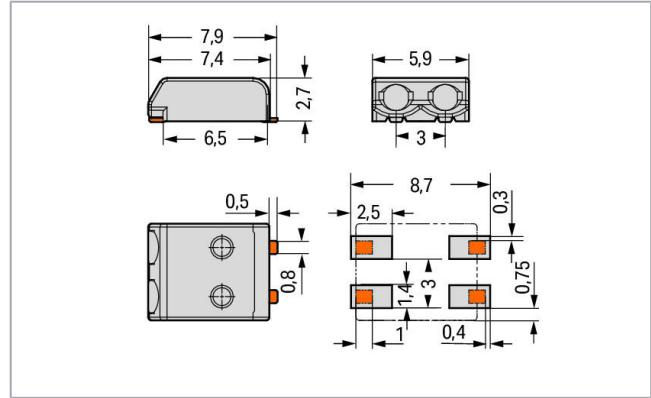
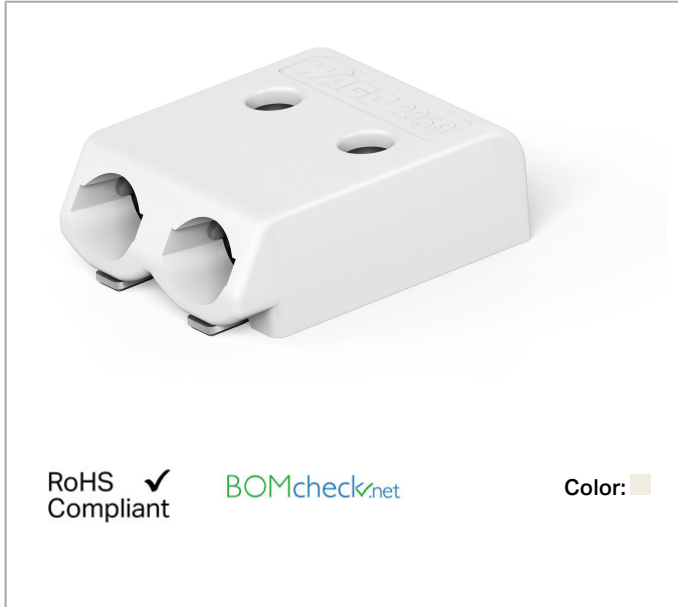


Data sheet | Item number: 2059-302/998-403

SMD PCB terminal block; 0.5 mm²; Pin spacing 3 mm; 2-pole; PUSH WIRE®; in tape-and-reel packaging; 0,50 mm²; white



www.wago.com/2059-302_998-403



Item description

- SMD PCB terminal blocks with PUSH WIRE® connection technology
- Push-in termination of solid conductors
- Easy conductor removal via operating tool
- Height of just 2.7 mm

Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



- Assemble terminal blocks without pole loss
- Available in tape-and-reel packaging for automated assembly

Note:

Application notes:

Suitable for lead-free, reflow-soldering profiles per DIN EN 61760-1 and IEC 60068-2-58 up to max. 260°C peak temperature. Due to application-specific variables (component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions.

Note:

Depending on reflow soldering temperatures and times, color deviations may occur. These deviations will have no impact on functionality.

Recommendation:

Recommendation for stencil:

Material thickness: 150 µm; Pattern layout identical to solder pad layout

Data

Electrical data

Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	63 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	3 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL 1059

Approvals per	UL 1059
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Ratings per UL 1977

Rated voltage UL 1977	250 V
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Subject to changes. Please also observe the further product documentation!

Rated current UL 1977	3 A
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Ratings per CSA

Approvals per	CSA
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Connection data

Connection technology	PUSH WIRE®
Actuation type	Operating tool
Solid conductor	0.14 ... 0.34 mm ² / 26 ... 22 AWG
Note (conductor cross-section)	For conductors (26 AWG) that are not rigid enough, the clamping unit must be opened using an operating tool.
Strip length	4 ... 5.5 mm / 0.16 ... 0.22 inch
Conductor connection direction to PCB	0°
Pole No.	2
Solid conductor 2	0.5 mm ² / 20 AWG
Note (conductor cross-section) 2	No reconnection of smaller conductor cross-sections (0.5 mm ² /20 AWG)
Strip length 2	6 ... 7.5 mm / 0.24 ... 0.3 inch
Total number of connection points	2
Total number of potentials	2
Number of connection types	1
Number of levels	1

Physical data

Pin spacing	3 mm / 0.118 inch
Width	5.9 mm / 0.232 inch
Height	2.7 mm / 0.106 inch
Depth	7.9 mm / 0.311 inch
Reel diameter of tape-and-reel packaging	330 mm
Tape width	16 mm

PCB contact

PCB Contact	SMD
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Material data

Color	white
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Subject to changes. Please also observe the further product documentation!

Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	tin-plated
Weight	0.2 g

Environmental requirements





Limit temperature range	-60 ... +105 °C
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Commercial data

Product Group	33 (Printed Circuit)
Packaging type	BOX
Country of origin	CH
GTIN	4055143082686
Customs tariff number	85369010000


Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL-7680
	CCA DEKRA Certification B.V.	EN 60838	NTR NL-7720
	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-103560
	KEMA/KEUR DEKRA Certification B.V.	EN 60838	71-106226




UL-Approvals

Subject to changes. Please also observe the further product documentation!

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1977	E45171

Compatible products

General accessories

	Item no.: 2059-902 Board-to-Board Link; Pin spacing 3 mm; 2-pole; Length: 15.3 mm; white	www.wago.com/2059-902
	Item no.: 2059-902/018-000 Board-to-Board Link; Pin spacing 3 mm; 2-pole; Length: 17.5 mm; white	www.wago.com/2059-902/018-000
	Item no.: 2059-902/021-000 Board-to-Board Link; Pin spacing 3 mm; 2-pole; Length: 20.5 mm; white	www.wago.com/2059-902/021-000

tools

	Item no.: 2059-189 Operating tool; made of insulating material; for 2059 Series	www.wago.com/2059-189
	Item no.: 206-859 Operating tool; for 2059 Series; multicoloured	www.wago.com/206-859

Downloads

Documentation

Additional Information

Technical explanations	2019 Apr 3	pdf 2.0 MB	Download
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CAD/CAE-Data

PCB Design

Symbol and Footprint 2059-302/998-403	URL	Download
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CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15

Subject to changes. Please also observe the further product documentation!



- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

CAE data

ZUKEN Portal 2059-302/998-403	URL	Download
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CAD data

2D/3D Models 2059-302/998-403	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2059-302/998-403	URL	Download
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SMD PCB terminal block; 0.5 mm²; Pin spacing 3 mm; 2-pole; PUSH WIRE®; in tape-and-reel packaging; 0,50 mm²; white

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Installation Notes

Conductor termination



Inserting solid conductors via push-in termination.

Conductor termination



Easy conductor removal (e.g., via 206-859 Operating Tool)

Subject to changes. Please also observe the further product documentation!