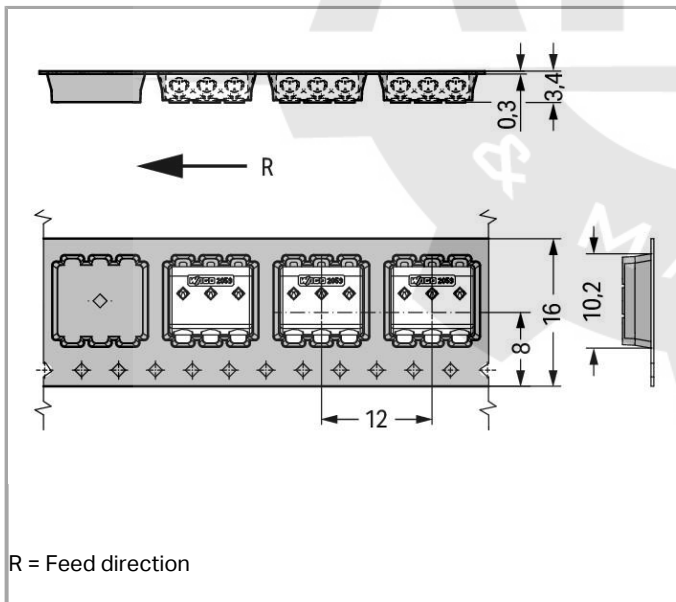
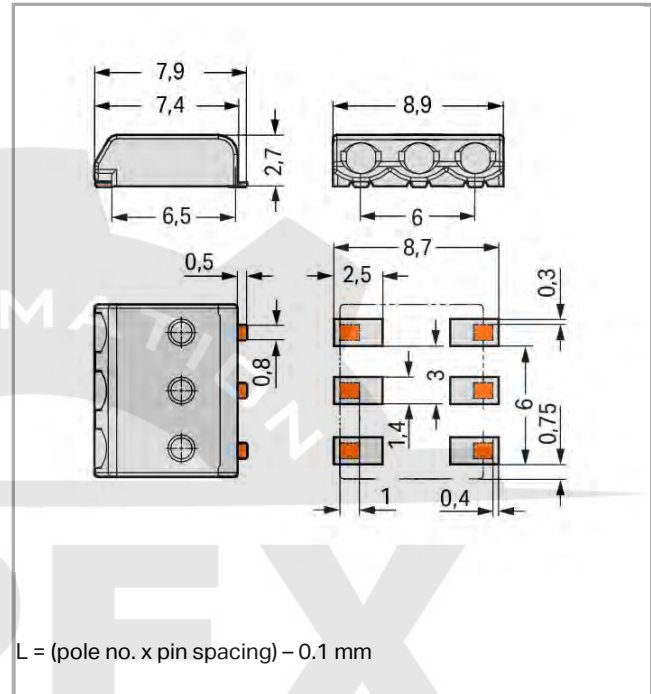
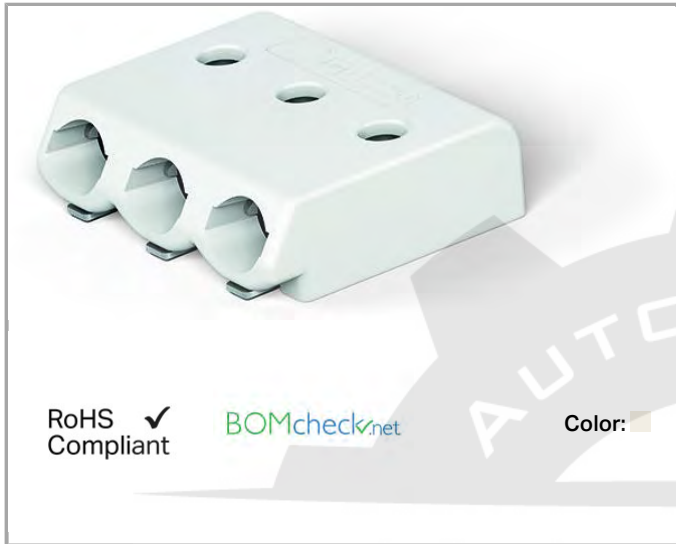


Data sheet | Item number: 2059-303/998-403

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



2059-303/998-403



Item description

- SMD PCB terminal blocks with PUSH WIRE® connection technology
- Push-in termination of solid conductors

- Easy conductor removal, e.g., via operating tool
- Just 2.7 mm tall
- Assemble terminal blocks without pole loss
- Available in tape-and-reel packaging for automated assembly

Note:**Application note:**

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 customer-specific variables (e.g., component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions.

Recommendation:

Recommendation for SMD stencil:

Material thickness, 150 µm. Pattern layout identical to solder pad layout.

Data**Electrical data****Ratings per IEC/EN 60664-1**

Rated voltage (III / 3)	63 V
Rated impulse voltage (III / 3)	2.5 kV
Rated voltage (III / 2)	160 V
Rated impulse voltage (III / 2)	2.5 kV
Rated voltage (II / 2)	320 V
Rated impulse voltage (II / 2)	2.5 kV
Rated current	3 A

Approvals per UL 1977

Rated voltage per UL 1977 (factory wiring only)	250 V
Rated current per UL 1977 (factory wiring only)	3 A

Connection data

Connection technology	PUSH WIRE®
Actuation type	Operating tool
Solid conductor	0.14 ... 0.34 mm ² / 26 ... 22 AWG
Strip length	4 ... 5.5 mm / 0.16 ... 0.22 inch
Conductor entry angle to the PCB	0°



Solid conductor (2)	0.5 mm ² / 20 AWG
Note (conductor cross-section)	For conductors that are not rigid enough (26 AWG), the clamping unit must be opened using an operating tool.
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
No. of poles	3
Total number of connection points	3
Total number of potentials	3
Number of connection types	1
Number of levels	1

Geometrical Data

Pin spacing	3 mm / 0.118 inch
Width	8.9 mm / 0.35 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
Material group	I
Insulating 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
Fire load	0 MJ
Weight	0.244 g

Environmental Requirements

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

Product Group	33 (Printed Circuit)
Country of origin	CH

GTIN	4055143082693
Customs Tariff No.	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
	CCA DEKRA Certification B.V.	EN 60947	NTR NL-7428
	CCA DEKRA Certification B.V.	EN 60947	2184363.01
	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-103560
	KEMA/KEUR DEKRA Certification B.V.	EN 60838	71-106226
UL-Approvals			
Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1977	E45171

Compatible products

tools

Item no.: 2059-189	2059-189
Operating tool; for 2059 Series SMD PCB Terminal Blocks; of insulating material	



Item no.: 206-859

Operating tool; for 2060 Series SMD Terminal Blocks

206-859

General accessories



Item no.: 2059-903

Board-to-Board Link; Pin spacing 3 mm; 3-pole; Length: 15.3 mm

2059-903



Item no.: 2059-903/018-000

Board-to-Board Link; Pin spacing 3 mm; 3-pole; Length: 17.5 mm

2059-903

/018-000



Item no.: 2059-903/021-000

Board-to-Board Link; Pin spacing 3 mm; 3-pole; Length: 20.5 mm

2059-903

/021-000

Downloads

Documentation

Additional Information

pdf
3.6 MB

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CAD/CAE - Smart Data

CAD data

3D Download 2059-303/998-403

URL

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Subject to changes.