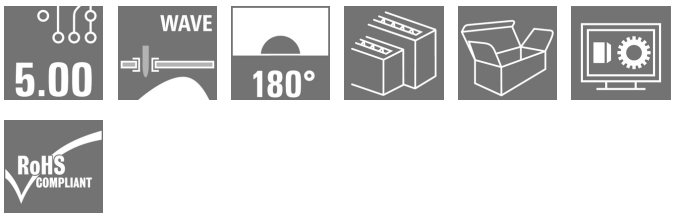
OMNIMATE Signal - series RSV
RSV1,6 LB9 GR 3,2 AU

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
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Product image



Similar to illustration



Rectangular plug-in male and female connector with solder contacts for PCB applications. High connection density achieved by using several rows and crimp contacts in the mating connector. The plug-in connectors can be coded and locked to the mating connector. Supplied in cardboard box.

General ordering data

Type	RSV1,6 LB9 GR 3,2 AU
Order No.	1442200000
Version	PCB plug-in connector, female header, THT solder connection, 5.00 mm, No. of poles: 9, 180°, Solder pin length (l): 3.2 mm, Gold-plated, Pebble grey, Box
GTIN (EAN)	4008190046491
Qty.	50 pc(s).
Product data	IEC: 500 V / 14 A UL: 300 V / 10 A
Packaging	Box

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Technical data

Dimensions and weights

Height of lowest version	14.3 mm	Net weight	6.78 g

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

System specifications

Product family	OMNIMATE Signal - series RSV	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 inch	Outgoing elbow	180°
No. of poles	9	Solder pin length (l)	3.2 mm
Tolerance of solder pin position	± 0.1 mm	Solder pin dimensions	d = 0.97 mm
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)	+ 0,1 mm
L1 in mm	10 mm	L1 in inches	0.394 inch
Number of rows	1	Pin series quantity	3

Material data

Insulating material	Wemid (PA)	Colour	Pebble grey
Colour chart (similar)	RAL 7032	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	Gold-plated
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	Operating temperature, max.	100 °C
Temperature range, installation, max.	100 °C		

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	14 A
Rated current, max. no. of poles (Tu=20°C)	10 A	Rated current, min. no. of poles (Tu=40°C)	12 A
Rated current, max. no. of poles (Tu=40°C)	8.5 A	Rated voltage for surge voltage class / pollution degree II/2	500 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Short-time withstand current resistance	3 x 1s with 120 A

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	53975-13
Rated voltage (Use group C / CSA)	300 V	Rated current (Use group C / CSA)	13 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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Technical data

Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	E92202
Rated voltage (Use group C / UL 1059)	300 V	Rated current (Use group C / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packaging

Packaging	Box	VPE length	65 mm
VPE width	80 mm	VPE height	104 mm

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002636
ETIM 5.0	EC002636	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-01
eClass 6.2	27-26-07-03	eClass 7.1	27-44-01-01
eClass 8.1	27-44-01-01	eClass 9.0	27-44-01-01
eClass 9.1	27-44-04-02		

Notes

Notes	• Additional colours on request • Rated current related to rated cross-section & min. No. of poles. • Spacing between rows: see hole layout • Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

Approvals

Approvals	
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	EPLAN, WSCAD
Engineering Data	RSV1.6.zip

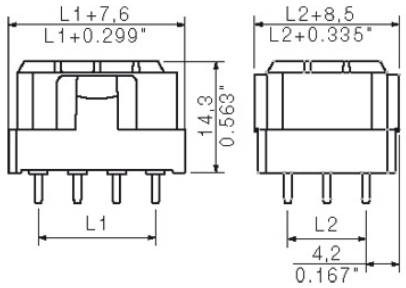
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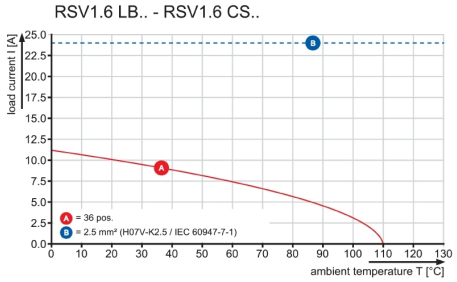
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Drawings

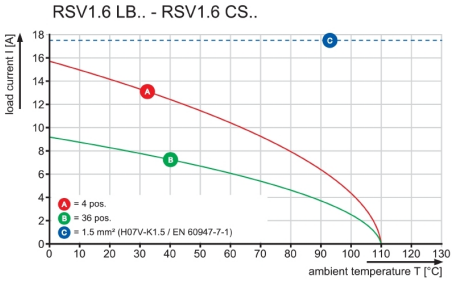
Dimensional drawing



Graph



Graph

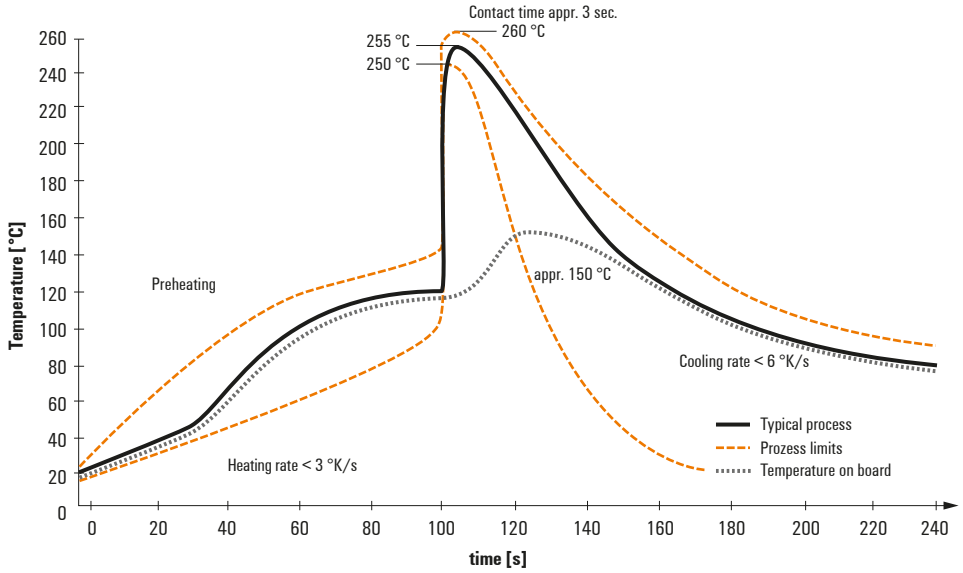


Wave Solder Profile

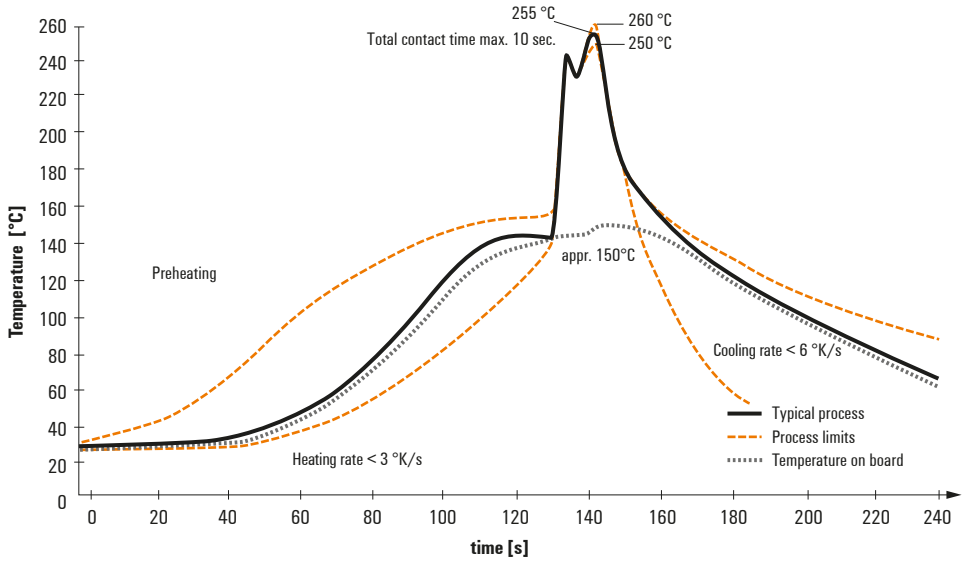
Recommended wave solderding profiles

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:
- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.