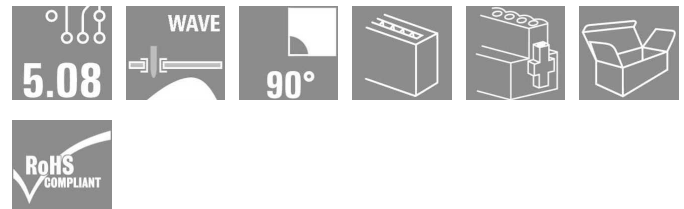


**OMNIMATE Signal - series BL/SL 5.08**  
**BLL 5.08/08/90FI 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com



Female header for PCB mounting. The solder pin length is optimised for wave flow soldering.

- 400 V (IEC) / 300 V (UL)
- 23 A (IEC) / 15 A (UL)

**General ordering data**

Type	BLL 5.08/08/90FI 3.2SN OR BX
Order No.	<a href="#">1843810000</a>
Version	PCB plug-in connector, female header, Inverted flange, Solder connection, 5.08 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4032248355563
Qty.	36 pc(s).
Product data	IEC: 400 V / 23 A UL: 300 V / 15 A
Packaging	Box

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Technical data****Dimensions and weights**

Net weight	9.92 g
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**System parameters**

Product family		Mounting onto the PCB	
Product family	OMNIMATE Signal - series BL/SL 5.08		Solder connection
Outgoing elbow	90°	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch	No. of poles	8
Solder pin length (l)	3.2 mm	Pin dimensions	0.4 x 1.00 mm
Can be coded	Yes	Number of solder pins per pole	2
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)+	0,1 mm
L1 in mm	35.56 mm	L1 in inches	1.4 inch
Insulation resistance	10 <sup>3</sup> Ω	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch


**Material data**

Insulating material	PBT GF	Colour	Orange
Insulating material group	IIIa	UL 94 flammability rating	V-0
CTI	≥ 200	Contact material	Cu-Leg
Contact surface	tinned	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C	Max. relative humidity during storage	80 %

**DIN IEC rating data**

Rated current, min. no. of poles (Tu=20°C)	23 A	Rated current, max. no. of poles (Tu=20°C)	16 A
Rated current, number of poles (Tu=40°C), min	20 A	Rated current, number of poles (Tu=40°C), max.	14 A
Rated voltage for surge voltage class / pollution degree III/3	250 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated voltage for surge voltage class / pollution degree II/2	400 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV
Short-time withstand current resistance	3 x 1s with 120 A		

**CSA rating data**

Institute (CSA)		Rated voltage (Use group B)	300 V
Rated current (use group B)	15 A	Rated voltage (use group D)	300 V
Rated current (use group D)	10 A		

**UL 1059 rating data**

Rated voltage (use group B)	300 V	Rated current (use group B)	15 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A

**Data sheet**

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Technical data**

**Classifications**

ETIM 3.0	EC001284	UNSPSC	30-21-18-10
eClass 5.1	27-26-07-04	eClass 6.2	27-26-07-04
eClass 7.1	27-44-04-02		

**Notes**

- Notes
- Additional colours on request
  - Gold-plated contact surfaces on request
  - Rated current related to rated cross-section & min. No. of poles.
  - P on drawing = pitch
  - 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.

**Approvals**

Approvals



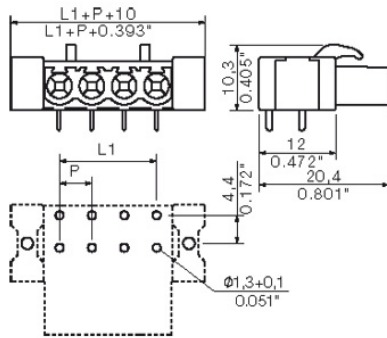
ROHS Conform

**Downloads**

- CAD Library (P-CAD Format - ASCII) [BLL.zip](#)  
 CAD Library (P-CAD Format - Standard) [BLL.zip](#)  
[3-D model](#)

**Data sheet****OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Drawings**

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**SL-SMT 5.08/180G Box**


High-temperature-resistant male header, packed in box or tape. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 5.08/08/180G 1.5SN BK BX	<a href="#">1775982001</a>	PCB plug-in connector, male header, closed side, Reflow solder connection, 5.08 mm, No. of poles: 8, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248158973	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box
SL-SMT 5.08/08/180G 3.2SN BK BX	<a href="#">1838270000</a>	PCB plug-in connector, male header, closed side, Reflow solder connection, 5.08 mm, No. of poles: 8, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248348336	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box

**SL-SMT 5.08/90 Box**


High-temperature-resistant, 90° angled, open male header  
Packed in box or tape. In tape with 1.5 mm solder pin  
optimised for automatic assembly. 3.2 mm solder pin  
suitable for reflow and wave soldering. These male  
connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 5.08/08/90 3.2SN BK BX	<a href="#">1780010000</a>	PCB plug-in connector, male header, open side, Reflow solder connection, 5.08 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248165339	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box
SL-SMT 5.08/08/90 1.5SN BK BX	<a href="#">1774822001</a>	PCB plug-in connector, male header, open side, Reflow solder connection, 5.08 mm, No. of poles: 8, 90°	4032248155866	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**

Solder pin length (l): 1.5  
mm, tinned, Black, Box

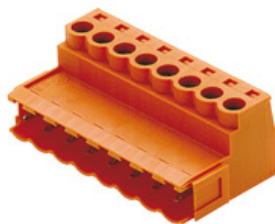
**SLS 5.08TB RF15**


Male plugs with clamping-yoke screw wire-connect system. With clip-on feet for attaching the male plugs on rail. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 21.5 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLS 5.08/08/180TB RF15 SN OR BX	<a href="#">1846070000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248362356	10 pc(s).	IEC: 400 V / 21.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 14 A / AWG 26 - AWG 12	Box

**SLS 5.08/180B**


Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 21.5 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLS 5.08/08/180B SN OR BX	<a href="#">1627300000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190199814	42 pc(s).	IEC: 400 V / 21.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 14 A / AWG 26 - AWG 12	Box

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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Fax: +49 5231 14-292083  
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**Mating connector (conditionally pluggable)**
**SL 5.00/90B**


Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 18 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL	<a href="#">1580920000</a>	PCB plug-in connector, male	4008190072858	50 pc(s).	IEC: 400 V / 18 A UL: 300 V / 15 A	Box
5.00/08/90B		header, Dovetails for fixing				
3.2SN OR BX		blocks, Solder connection, 5.00 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box				

**SL-SMT 5.08/180 Box**


High-temperature-resistant, straight, open ended male header. Packed in box or tape. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	<a href="#">1838040000</a>	PCB plug-in connector, male	4032248348107	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box
5.08/08/180		header, open side, Reflow				
3.2SN BK BX		solder connection, 5.08 mm, No. of poles: 8, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box				
SL-SMT	<a href="#">1775662001</a>	PCB plug-in connector, male	4032248157600	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box
5.08/08/180		header, open side, Reflow				
1.5SN BK BX		solder connection, 5.08 mm, No. of poles: 8, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box				

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**SL 5.08/90B**


Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 18 A (IEC) / 15 A (UL)

**General ordering data**

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	SL 5.08/08/90B 3.2SN OR BX	<a href="#">1510960000</a>	PCB plug-in connector, male header, Dovetails for fixing blocks, Solder connection, 5.08 mm, No. of poles: 8, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190167295	50 pc(s).

**SL-SMT 5.08/180 Tape**


High-temperature-resistant, straight, open ended male header. Packed in box or tape. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 5.08/08/180 1.5 SN BK RL	<a href="#">1775664001</a>	PCB plug-in connector, male header, open side, Reflow solder connection, 5.08 mm, No. of poles: 8, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Tape	4032248159642	250 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Tape

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**SL-SMT 5.08/180F Box**


High-temperature-resistant male header, packed in box or tape. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	<a href="#">1820620000</a>	PCB plug-in connector, male	4032248316588	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box
5.08/08/180F		header, Flange, Reflow				
3.2SN BK BX		solder connection, 5.08 mm, No. of poles: 8, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box				

**SLT 5.08B**


Male plugs with screw TOP wire connection. The male plug provides space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 16 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLT	<a href="#">1611770000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, TOP connection, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4008190192655	50 pc(s).	IEC: 400 V / 16 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 15 A / AWG 26 - AWG 14	Box
5.08/08/180B						
SN OR BX						

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**SLDV-THR 5.08/180FLF**


High-temperature resistant, double level, laterally offset, male connector with flange or solder flange. 1.5 mm solder pin is suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLDV-THR 5.08/16/180FLF 3.2SN BK BX	<a href="#">1829070000</a>	PCB plug-in connector, male header, Flange / Solder flange, Reflow solder connection, 5.08 mm, No. of poles: 16, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248335763	20 pc(s).	IEC: 400 V / 15 A UL: 300 V / 10 A	Box
SLDV-THR 5.08/16/180FLF 1.5SN BK BX	<a href="#">1829190000</a>	PCB plug-in connector, male header, Flange / Solder flange, Reflow solder connection, 5.08 mm, No. of poles: 16, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248335886	20 pc(s).	IEC: 400 V / 15 A UL: 300 V / 10 A	Box

**SL 5.08/90**


Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 18 A (IEC) / 15 A (UL)

**General ordering data**

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	SL 5.08/08/90 3.2SN OR BX	<a href="#">1508660000</a>	PCB plug-in connector, male header, open side, Solder connection, 5.08 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm,	4008190178376	50 pc(s).

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**

tinned, Orange,  
Box

**SL 5.00/90**


Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 18 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL 5.00/08/90 3.2SN OR BX	<a href="#">1571190000</a>	PCB plug-in connector, male header, open side, Solder connection, 5.00 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190016920	50 pc(s).	IEC: 400 V / 18 A UL: 300 V / 15 A	Box
SL 5.00/08/90 4.5SN BK BX	<a href="#">1626040000</a>	PCB plug-in connector, male header, open side, Solder connection, 5.00 mm, No. of poles: 8, 90°, Solder pin length (l): 4.5 mm, tinned, Black, Box	4008190197346	50 pc(s).	IEC: 400 V / 18 A UL: 300 V / 15 A	Box

**SLS 5.08/180F**


Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 21.5 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLS 5.08/08/180F SN OR BX	<a href="#">1846420000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248362721	36 pc(s).	IEC: 400 V / 21.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 14 A / AWG 26 - AWG 12	Box

## OMNIMATE Signal - series BL/SL 5.08 BLL 5.08/08/90FI 3.2SN OR BX

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### Mating connector (conditionally pluggable)

#### SLZF 5.08/180FI



Male plugs with tension-clamp wire connection. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 23 A (IEC) / 15 A (UL)

#### General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	SLZF 5.08/08/180FI SN OR BX	<a href="#">1846570000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248362875	50 pc(s).

#### SL-SMT 5.08/180LF Box



High-temperature-resistant male header, packed in box or tape. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 5.08/08/180LF 1.5SN BK BX	<a href="#">1776422001</a>	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 5.08 mm, No. of poles: 8, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248159208	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box
SL-SMT 5.08/08/180LF 3.2SN BK BX	<a href="#">1838500000</a>	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 5.08 mm, No. of poles: 8, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248348565	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box

## OMNIMATE Signal - series BL/SL 5.08 BLL 5.08/08/90FI 3.2SN OR BX

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### Mating connector (conditionally pluggable)

#### SLZF 5.08/90B



Male plugs with tension-clamp wire connection. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 23 A (IEC) / 15 A (UL)

#### General ordering data

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	2017-12-31T00:00:00+01:00	SLZF 5.08/08/90B SN OR BX	<a href="#">1673610000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 90°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190435325	50 pc(s).

#### SL-SMT 5.08/90LF Box



High-temperature-resistant male header, packed in box or tape. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 5.08/08/90LF 3.2SN BK BX	<a href="#">1780470000</a>	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 5.08 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248165797	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box
SL-SMT 5.08/08/90LF 1.5SN BK BX	<a href="#">1775292001</a>	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 5.08 mm, No. of poles: 8, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248157273	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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 Klingenbergstraße 16  
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 Germany  
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 www.weidmueller.com

**Mating connector (conditionally pluggable)**
**SLD 5.08/90G**


2-tier male header with parallel pin arrangement. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 11 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLD 5.08/16/90G 3.2SN OR BX	<a href="#">1601850000</a>	PCB plug-in connector, male header, closed side, Solder connection, 5.08 mm, No. of poles: 16, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190112028	20 pc(s).	IEC: 400 V / 11 A UL: 300 V / 10 A	Box

**SL 5.08/180B**


Male connectors with straight outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 18 A (IEC) / 15 A (UL)

**General ordering data**

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	2017-12-31T00:00:00+01:00	SL 5.08/08/180B 3.2SN OR BX	<a href="#">1520160000</a>	PCB plug-in connector, male header, Dovetails for fixing blocks, Solder connection, 5.08 mm, No. of poles: 8, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190136741	50 pc(s).

## OMNIMATE Signal - series BL/SL 5.08 BLL 5.08/08/90FI 3.2SN OR BX

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### Mating connector (conditionally pluggable)

#### SL-SMT 5.00/90LF Box



High-temperature-resistant male header, packed in box or tape. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 5.00/08/90LF 1.5SN BK BX	<a href="#">1797290000</a>	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 5.00 mm, No. of poles: 8, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248238071	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box
SL-SMT 5.00/08/90LF 3.2SN BK BX	<a href="#">1840410000</a>	PCB plug-in connector, male header, Solder flange, Reflow solder connection, 5.00 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248351251	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box

#### SL 5.08/180



Male connectors with straight outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 18 A (IEC) / 15 A (UL)

#### General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	SL 5.08/08/180 3.2SN OR BX	<a href="#">1517860000</a>	PCB plug-in connector, male header, open side, Solder connection, 5.08 mm, No. of poles: 8, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190170264	50 pc(s).

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**SL-SMT 5.08/90F Box**


High-temperature-resistant male header, packed in box or tape. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	<a href="#">1837690000</a>	PCB plug-in connector, male	4032248347506	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box
5.08/08/90F		header, Flange, Reflow				
3.2SN BK BX		solder connection, 5.08 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box				

**SLZF 5.08/180F**


Male plugs with tension-clamp wire connection. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 23 A (IEC) / 15 A (UL)

**General ordering data**

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	2017-12-31T00:00:00+01:00	SLZF 5.08/08/180F SN OR BX	<a href="#">1847000000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248363179	50 pc(s).

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**SLS 5.08TB KF35**


Male plugs with clamping-yoke screw wire-connect system. With clip-on feet for attaching the male plugs on rail. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 21.5 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLS 5.08/08/180TB KF SN OR BX	<a href="#">1846150000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248362431	10 pc(s).	IEC: 400 V / 21.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 14 A / AWG 26 - AWG 12	Box

**SL-SMT 5.08/90G Box**


High-temperature-resistant male header, packed in box or tape. In tape with 1.5 mm solder pin optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. These male connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT 5.08/08/90G 1.5SN BK BX	<a href="#">1775062001</a>	PCB plug-in connector, male header, closed side, Reflow solder connection, 5.08 mm, No. of poles: 8, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248156528	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box
SL-SMT 5.08/08/90G 3.2SN BK BX	<a href="#">1780240000</a>	PCB plug-in connector, male header, closed side, Reflow solder connection, 5.08 mm, No. of poles: 8, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248165568	50 pc(s).	IEC: 400 V / 19 A UL: 300 V / 15 A	Box

## OMNIMATE Signal - series BL/SL 5.08 BLL 5.08/08/90FI 3.2SN OR BX

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### Mating connector (conditionally pluggable)

#### SLZF 5.08/270B



Male plugs with tension-clamp wire connection. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 23 A (IEC) / 15 A (UL)

#### General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	SLZF 5.08/08/270B SN OR BX	<a href="#">1706200000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 270°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248113965	50 pc(s)

#### SLZF 5.08/180B



Male plugs with tension-clamp wire connection. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 23 A (IEC) / 15 A (UL)

#### General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	SLZF 5.08/08/180B SN OR BX	<a href="#">1710270000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190319588	50 pc(s)

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**SLDV-THR 5.08/180F**


High-temperature resistant, double level, laterally offset, male connector with flange or solder flange. 1.5 mm solder pin is suitable for reflow soldering. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 15 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLDV-THR 5.08/16/180F 3.2SN BK BX	<a href="#">1828830000</a>	PCB plug-in connector, male header, Flange, Reflow solder connection, 5.08 mm, No. of poles: 16, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box	4032248335527	20 pc(s).	IEC: 400 V / 15 A UL: 300 V / 10 A	Box
SLDV-THR 5.08/16/180F 1.5SN BK BX	<a href="#">1828950000</a>	PCB plug-in connector, male header, Flange, Reflow solder connection, 5.08 mm, No. of poles: 16, 180°, Solder pin length (l): 1.5 mm, tinned, Black, Box	4032248335640	20 pc(s).	IEC: 400 V / 15 A UL: 300 V / 10 A	Box

**SL 5.08/135B**


Male connectors with 135° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL 5.08/08/135B 3.2SN OR BX	<a href="#">1605590000</a>	PCB plug-in connector, male header, Dovetails for fixing blocks, Solder connection, 5.08 mm, No. of poles: 8, 135°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190027155	50 pc(s).	IEC: 400 V / 17 A UL: 300 V / 15 A	Box

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (conditionally pluggable)**
**SL-SMT 5.08/90 Tape**


High-temperature-resistant, 90° angled, open male header  
Packed in box or tape. In tape with 1.5 mm solder pin  
optimised for automatic assembly. 3.2 mm solder pin  
suitable for reflow and wave soldering. These male  
connectors provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 19 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL-SMT	<a href="#">1774824001</a>	PCB plug-in connector, male	4032248167715	350 pc(s).	IEC: 400 V / 19 A	Tape
5.08/08/90		header, open side, Reflow			UL: 300 V / 15 A	
1.5 SN BK RL		solder connection, 5.08 mm, No. of poles: 8, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Tape				

**SLS 5.08/180 SN**


Male plugs with clamping-yoke screw wire-connect  
system. The male plugs provide space for labelling and  
can be coded.

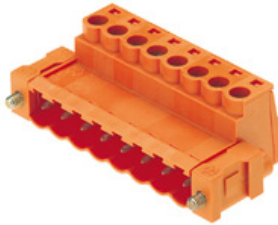
- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 21.5 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLS	<a href="#">1627150000</a>	PCB plug-in connector,	4008190199661	42 pc(s).	IEC: 400 V / 21.5 A / 0.2 - 2.5 mm <sup>2</sup>	Box
5.08/08/180		male plug, 5.08 mm, No.			UL: 300 V / 14 A / AWG 26 - AWG 12	
SN OR BX		of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box				

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (fully pluggable)**
**SLS 5.08/180FI**


Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 12 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 21.5 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLS 5.08/08/180FI SN OR BX	<a href="#">1846270000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4032248362554	36 pc(s).	IEC: 400 V / 21.5 A / 0.2 - 2.5 mm <sup>2</sup> UL: 300 V / 14 A / AWG 26 - AWG 12	Box

**SL 5.08/135**


Male connectors with 135° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 17 A (IEC) / 15 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SL 5.08/08/135 3.2SN OR BX	<a href="#">1603120000</a>	PCB plug-in connector, male header, open side, Solder connection, 5.08 mm, No. of poles: 8, 135°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190159771	50 pc(s).	IEC: 400 V / 17 A UL: 300 V / 15 A	Box

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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**Mating connector (fully pluggable)**
**SLD 5.08/180G**


2-tier male header with parallel pin arrangement. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 400 V (IEC) / 300 V (UL)
- 11 A (IEC) / 10 A (UL)

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SLD 5.08/16/180G 3.2SN OR BX	<a href="#">1602450000</a>	PCB plug-in connector, male header, closed side, Solder connection, 5.08 mm, No. of poles: 16, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190180171	20 pc(s).	IEC: 400 V / 11 A UL: 300 V / 10 A	Box

**SLZF 5.08/180**


Male plugs with tension-clamp wire connection. The male plugs provide space for labelling and can be coded.

- 0.2 - 2.5 mm<sup>2</sup> (IEC) / 26 - 14 AWG (UL)
- 400 V (IEC) / 300 V (UL)
- 23 A (IEC) / 15 A (UL)

**General ordering data**

Delivery status	Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future.	2017-12-31T00:00:00+01:00	SLZF 5.08/08/180 SN BK BX	<a href="#">1709660000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, Tension clamp connection, Clamping range, rated connection, max.: 3.31 mm <sup>2</sup> , Box	4008190318963	50 pc(s).
This article will no longer be available in the future.	2017-12-31T00:00:00+01:00	SLZF 5.08/08/180 SN OR BX	<a href="#">1709430000</a>	PCB plug-in connector, male plug, 5.08 mm, No. of poles: 8, 180°, Tension clamp connection, Clamping range, rated connection,	4008190395919	50 pc(s).

**Data sheet**

**OMNIMATE Signal - series BL/SL 5.08  
BLL 5.08/08/90FI 3.2SN OR BX**

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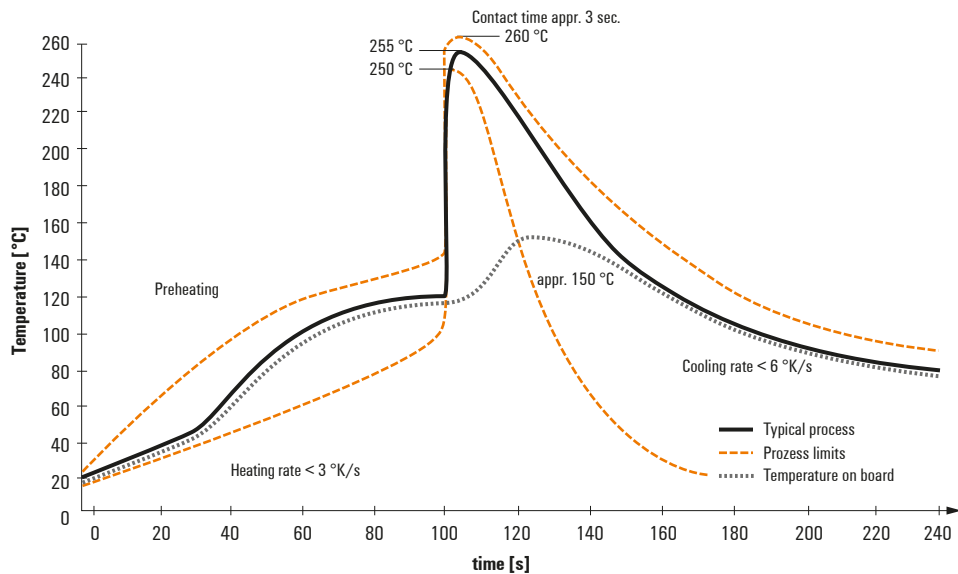
**Mating connector (fully pluggable)**

max.: 3.31 mm<sup>2</sup>,  
Box

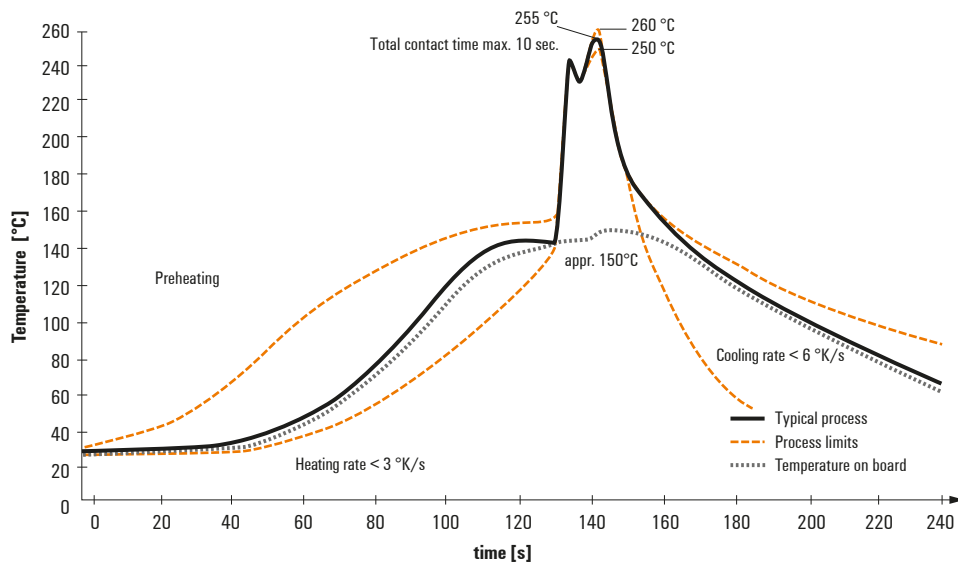
## Recommended wave soldering profiles

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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.

# Addresses worldwide


Let's connect.

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