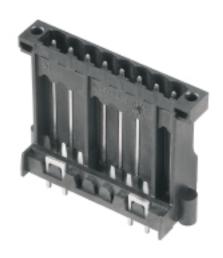


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image











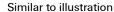












Extra-high temperature-resistant male header, optimised for the SMT process. Makes a compact 3-row male header when used together with the SLDV-THR.

General ordering data

Version	PCB plug-in connector, male header, Flange, THT/ THR solder connection, 5.08 mm, Number of poles: 16, 180°, Solder pin length (I): 3.2 mm, tinned, black, Box
Order No.	<u>1190600000</u>
Туре	SLH-THR5.08/16/180F 3.2SN BK BX
GTIN (EAN)	4032248973415
Qty.	10 pc(s).
Product data	IEC: 320 V / 18 A UL: 300 V / 10 A
Packaging	Вох

Creation date March 23, 2021 7:56:10 AM CET



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Technical data

Dimensions and weights

Depth	16.46 mm	Depth (inches)	0.648 inch
Height	43.52 mm	Height (inches)	1.713 inch
Height of lowest version	40.32 mm	Net weight	26.6 g
Width	101.6 mm	Width (inches)	4 inch

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch	Outgoing elbow	180°
Number of poles	16	Number of solder pins per pole	1
Solder pin length (I)	3.2 mm	Solder pin length tolerance	0 / -0.3 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder eyelet hole diameter (D)	1.5 mm
Solder eyelet hole diameter tolera	ance (D)+ 0,1 mm	L1 in mm	86.36 mm
L1 in inches	3.4 inch	Pin series quantity	2
Volume resistance	≤5 mΩ	Can be coded	Yes
Plugging force/pole, max.	10 N	Pulling force/pole, max.	7.5 N

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact material	CuSn
Contact surface		Layer structure of solder connection	13 μm Ni / 24 μm Sn
	tinned		matt
Layer structure of plug contact	13 μm Ni / 24 μm Sn	Storage temperature, min.	
	matt		-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C		·

Rated data acc. to IEC

tested acc. to standard		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(Tu=20°C)	18 A
Rated current, min. number of poles (Tu=40°C)	13 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	200 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Short-time withstand current resistance	1 x 1s with 120 A



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Technical data

Rated data acc. to CSA

Institute (CSA)	€ P:	Certificate No. (CSA)	
D. I. I. (II. D. (00A)	2007	D. I. I. (II. D. (CCA)	200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	13 A	Rated current (Use group D / CSA)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (cURus)		Certificate No. (cURus)
	C TABLES	

see approval certificate.

	· · ·		E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	10 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details -		

Packing

Packaging	Box	VPE length	50 mm
VPE width	95 mm	VPE height 175 mm	
Classifications			

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ECLASS 9.0	27-44-04-02	ECLASS 9.1	27-44-04-02
ECLASS 10.0	27-44-04-02	ECLASS 11.0	27-46-02-01

Important note

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.
Notes	 Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals	⊕ c T L°us III	
ROHS	Conform	

ROHS	Conform
UL File Number Search	E60693

Downloads

Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Engineering Data	STEP



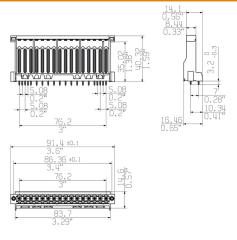
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Drawings

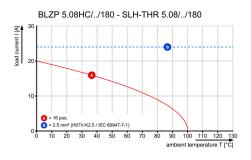
Dimensional drawing



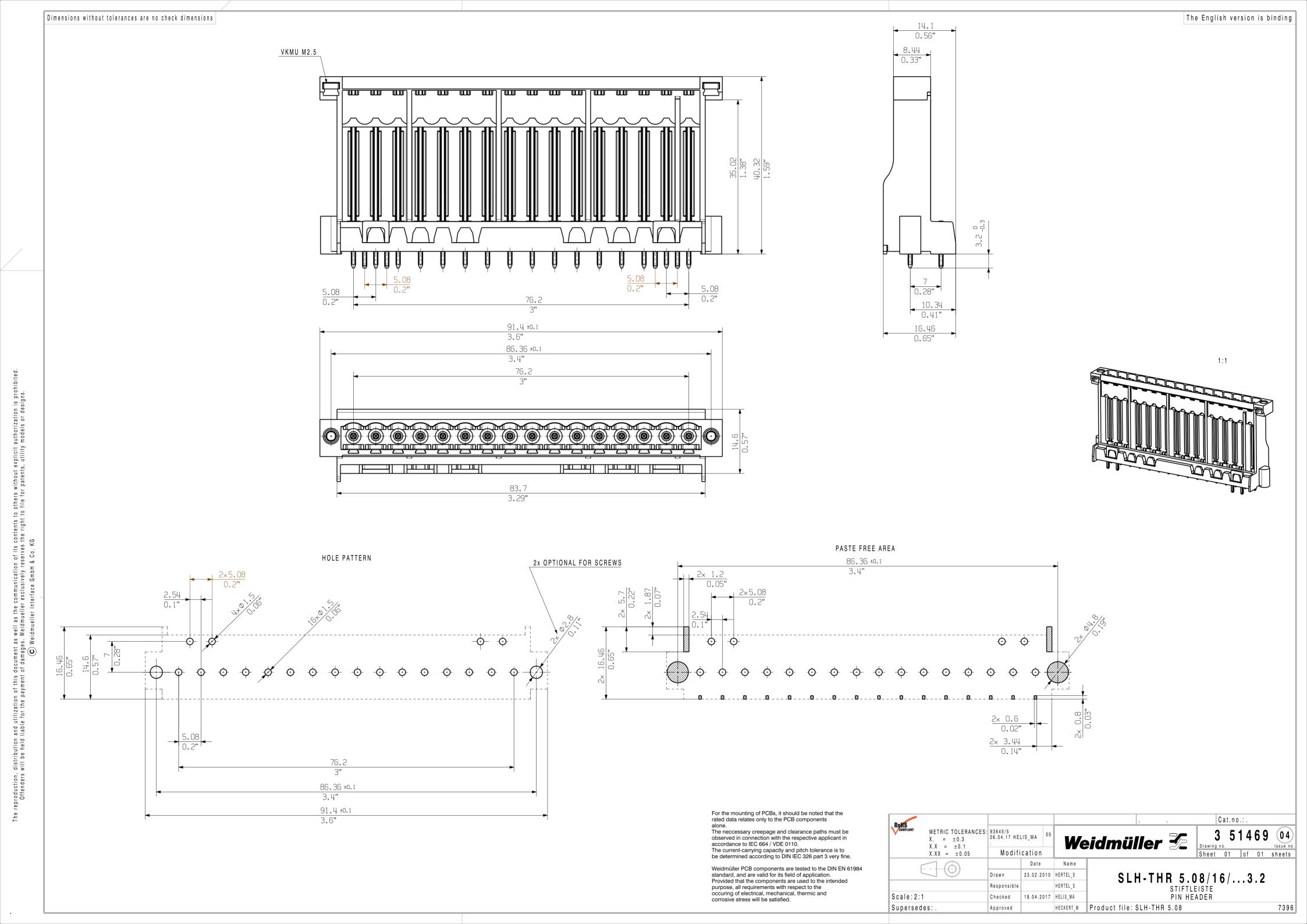
Derating curve

BLZP 5.08HC/../180 - SLH-THR 5.08/../180

Derating curve



Safe power transmission Proven properties





Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

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Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

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.



Recommended reflow soldering profile

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Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- · Time for pre heating
- Maximum temperature
- Time above melting point
- · Time for cooling
- · Maximum heating rate
- · Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3$ K/s. In parallel the solder paste is ,activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at \geq -6K/s solder is cured. Board and components cool down while avoiding cold cracks.