

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com





The integrated rail bus for the modular electronics housing system

When supplying, connecting or distributing within modular applications, the rail bus can replace the tedious individual wiring process with a flexible and uninterrupted system-wide solution.

The system bus is securely integrated within the 35mm standard mounting rail. The SMD-bus contact block can be reflow-soldered so that it can be completely automatically processed during the component assembly. The resistant, gold-plated contact surfaces ensure a permanent and reliable contact for all housing widths.

- **Unlimited scalability** The integrated connection solution covers all system widths: from the 6-mm slice to the 67-mm large-area housing.
- Easy to service during installation It's easy to replace a module, even in existing modules groups without any influence on the neighbouring modules.
- **Universal integration** The uninterrupted system bus is securely integrated within the 35-mm standard mounting rail.
- **Maximum availability** Five fully-galvanized and partially gold-plated twin-arched contacts are used to establish a permanent contact to the rail bus. THR solder flanges ensure that the connection to the circuit board is stable.

General ordering data

Туре	SR-SMD 4.50/05/90LFM 3.2AU BK BX		
Order No.	<u>1155870000</u>		
Version	PCB plug-in connector, Bus-contact block for CH2OM12-67, Middle solder flange, THT/THR solder connection, No. of poles: 5, 180°, Solder pin length (I): 3.2 mm, Gold-plated, black		
GTIN (EAN)	4032248942510		
Qty.	78 pc(s).		
Product data	UL:		
Packaging	Box		

Technical data



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

Moisture Level (MSL) 1 Contact surface Gold-plated Storage temperature, min. -25 °C Contact surface Gold-plated Max. relative humidity during storage 80 % Operating temperature, max. 55 °C Operating temperature, max. 100 °C Temperature, min. -50 °C Temperature range, installation, max. 100 °C Temperature, min. -30 °C Rated data acc. to IEC EC002637 ETIM 5.0 EC002637 Rated data acc. to standard IEC 60664-1, IEC 61984 EClass 6.2 27-26-07-04 Class 9.0 27-18-27-90 eClass 8.1 27-44-04-02 eClass 9.0 27-18-27-90 eClass 9.1 27-18-27-90 Notes Interventive: 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 projin accordance with IPC-A-610 °Class 2°. Further claims on the products can be evaluated on request. Approvals Approvals					
Height 5.9 mm Nat weight 3.13 g System specifications Product family OMNIMATE Housing - series CH2OM Mouning onto the PCB THT/THR solder connection connection Dutgoing elbow Pitch in inches (P) 0.197 inch No. of peles 5 Solder pin length tolerance 0.787 inch Plugging cycles 25 Material data Colour code black Insulating material LCP Colour code black Insulating material group Illia Insulating material group Illia Insulating material group 100 °C Temperature, min. -50 °C Operating temperature, min. -50 °C Operating temperature, max. 100 °C Temperature range, installation, max. 100 °C Temperature range.	Length				
Netweight 3.13 g System specifications Product family OMNIMATE Housing - series CH20M Wounting onto the PCB TMT/THR solder (TMT/THR solder connection Pitch in inches (P) 0.197 inch No. of poles 5 Solder pin length tolerance 0.11/-0.3 mm L1 in inches 0.787 inch Stogder pin length tolerance 0.717 inch Solder pin length tolerance 0.717 inch Pingging cycles 25 Material data Pristerial cycle 26 Material data Pristerial data Colour chart (similar) RAL 9011 Canta training material cycle Gold column training the single toperature, max. 55 °C Operating temperature, max. 100 °C Temperature ange, installation, max. 100 °C Temperature range, installation, max. 100 °C Rated data acc. to IEC Rested acc: to standard EC 60664-1, IEC 61984 Class 51. 27-44-04-02 Class 51. 27-44-04-02 Class 51. 27-44-04-02 Class 50. 27-18-27-90 Notes Notes Provals	Width		Width (inches)		
System specifications Product family OMNIMATE Housing - series CH2OM Type of connection Board connection Wouting onto the PCB TH/T/THR solder connection Pitch in mm (P) 5 mm Dutgoing elbow 180° Solder pin length tolerance +0.1 / -0.3 mm L1 in mm 20 mm Pin series quantity 1 Plugging cycles 25 7 me 20 mm L1 in mm 20 mm Plugging cycles 25 7 me 20 mm L1 in mm 20 mm Store prime series quantity 1 1 1 1 Plugging cycles 25 Colour code black 1 Insulating material LCP Colour code black 1 Storage temporature, min. -25 °C Max. Teative humidity during storage 80 % 0 Operating temperature, max. 100 °C Temperature range, installation, min. -30 °C Rated data acc. to IEC EtM 4.0 EC002637 ETM 5.0 EC002637 EtM 4.0 EC002637 ETM 5.0 EC002637 ETM 4.0 EC002637 ETM 5.0 EC002637 ETM 6.0 EC002637 ETM 5.0 27-26-07.04 Class 5.0 27-18-27.90 class 6.2 27-26-07.	· ·		Height (inches)	0.232 inch	
Product family OMNIMATE Housing - series CH20M Type of connection Board connection Wounting onto the PCB THT/THR solder connection Pitch in mm (P) 5 mm Outgoing elbow 180° Solder pin length tolerance 40.1 / -0.3 mm Solder pin length (I) 3.2 mm L1 in mm 20 mm L1 in inches 0.787 inch Solder pin length (I) 3.2 mm L1 in mm 20 mm Wagging cycles 25 Solder pin length (I) 3.2 mm L1 in mm 20 mm Magging cycles 25 Solder pin length (I) 3.2 mm L1 in mm 20 mm Misure Level (MSL) 1 Contor code black Insulating material group Illa Storage temperature, min. -25 °C Storage temperature, max. 56 °C Operating temperature, max. 56 °C Operating temperature, max. 100 °C Temperature range, installation, min. -30 °C Temperature range, installation, min. -30 °C Temperature range, installation, max. 100 °C Eff 4.1 EC 61984 Ecoso2637 Eff 4.3 EC 2.7 2.8 C7-04 eClass 6.1 27.44-04-02 eclass 9.1 27.18-27-90 eclass 9.1 27.18-27-90 <td>Net weight</td> <td>3.13 g</td> <td></td> <td></td>	Net weight	3.13 g			
series CH20M Board connection Wounting onto the PCB TH/THR solder connection Pitch in mm (P) Board connection Pitch in inches (P) 0.197 inch Outgoing albow 180° Solder pin length tolerance +0.17-0.3 mm L1 in mm 20 mm L1 in inches 0.737 inch Solder pin length (I) 3.2 mm Plugging cycles 25 Pitch in mm (P) The method is a connection Material data Colour code black Insulating material LCP Colour code black Colour code black Insulation strength ≥ 10° Ω Contact surface Gold-plated Storage temperature, min. >20° Ω Storage temperature, min. -25 °C Operating temperature, min. >50 °C Operating temperature, max. 100 °C Temperature range, installation, min. >30 °C Rated data acc. to IEC EtIM 5.0 EC002637 eClass 6.1 27.44-04-02 eclass 9.0 27-18-27.90 eClass 6.1 27.44-04-02 eclass 9.1 27.44-04-02 eclass 9.1 27.48-27.90 Notes Storage temperature and delivered according international recognized Price ontormity Conformity. The products are developed, manufactured and delivered according internatio	System specifications				
series CH20M Characteristical connection Board connection Mounting onto the PCB TH/THR solder connection Pitch in mm (P) 5 mm Outgoing elbow 180° 0.197 inch Solder pin length (I) 3.2 mm Solder pin length tolerance +0.17-0.3 mm L1 in mch 20 mm Pitch in mm (P) Plugging cycles 25 Solder pin length (I) 3.2 mm L1 in mm 20 mm Insulating material LCP Colour code black Insulation strength 1 Plugging cycles 25 Colour code black Insulation strength 2 10° Ω Colour code Max. relative humidity during storage 80 % Operating temperature, min. -25 °C Max. relative humidity during storage 80 % Operating temperature, min. -50 °C Operating temperature, max. 100 °C Temperature range, installation, min. -30 °C Rated data acc. to IEC EtIM 4.0 EC002637 eClass 6.1 27.44-04-02 eClass 9.0 27-18-27.90 eClass 8.1 27.44-04-02 eClass 9.1 27-18-27.90 eClass 9.1 27-18-27.90 Notes PC conformity. The products are developed, manufactured and delivered according international recognized Notes PC conformity.	Product family	OMNIMATE Housing -	Type of connection		
connection 5 mm No. of poles 5 No. of poles 5 Solder pin length tolerance +0.17-0.3 mm L1 in inches 0.787 inch Plugging cycles 25 Material data 1 Insulating material LCP Colour code black Moisture Level (MSL) 1 Colour code black Moisture Level (MSL) 1 Contact surface Gold-plated Storage temperature, min. -25 °C Max. relative humidity during storage 80 % Operating temperature, min. -26 °C Operating temperature, min. -60 °C Operating temperature, min. -60 °C Temperature range, installation, max 100 °C Temperature range, installation, max 100 °C Rated data acc. to IEC EC002637 ETIM 4.0 EC0021031 eClass 6.2 27-26-07-04 eClass 8.1 27-44-04-02 eClass 8.1 27-44-04-02 eClass 8.1 27-44-04-02 eClass 8.1 27-44-04-02 eClass 9.0 27-18-27-80 Notes Enformation and comply with the assured properties in the data sheter resp. Mill decorative projin accordance with IPC-A610				Board connection	
No. of poles 5 Solder pin length tolerance +0.1/-0.3 mm L1 in meths 0.787 inch Plugging cycles 25 Material data Image: Colour code Insulating material LCP Colour chart (similar) RAL 9011 TI ≥ 175 Moisture Level (MSL) 1 Storage temperature, min. -25 °C Max. relative humidity during storage 80 % Operating temperature, max. 100 °C Temperature range, installation, max. 100 °C Temperature range, installation, max. 100 °C Rated data acc. to IEC ECO2637 ETIM 4.0 ECO2637 ETIM 5.0 ECO2637	Nounting onto the PCB		Pitch in mm (P)	5 mm	
Solder pin length tolerance +0.1 / -0.3 mm L1 in mm 20 mm L1 in inches 0.787 inch Pin series quantity 1 Plugging cycles 25 Material data CCP Colour code black Colour chart (similar) RAL 9011 Insulating material group Illa CTI ≥ 175 Insulating material group Illa Colour chart (similar) RAL 9011 Insulating material group Illa Colour chart (similar) 1 Storage temperature, max. 56 °C Storage temperature, max. 100 °C Temperature range, installation, min. -30 °C Rated data acc. to IEC EC 60664-1, IEC 61984 EC002637 ETIM 5.0 EC002637 ETIM 6.0 EC002637 ETIM 5.0 EC002637 eClass 8.1 27.40-40-2 Calsas 9.0 27.18-27.90 eClass 8.1 27.40-40-2 eClass 9.1 27.18-27-90 Notes ECorormity: 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 proj in accordance with IPC-A610 "Class 2". Further claims on the products can be evaluated on request. <td< td=""><td>Pitch in inches (P)</td><td>0.197 inch</td><td></td><td>180°</td></td<>	Pitch in inches (P)	0.197 inch		180°	
L1 in inches 0.787 inch Plugging cycles 25 Material data Material data Insulating material LCP Colour code black Insulating material COP III Insulating material group IIIa Insulating material group IIIa Insulating material group IIIa Insulating material group IIIa Insulating material group IIIa Moisture Level (MSL) 1 Contact surface Gold-plated Storage temperature, min25 °C Operating temperature, min25 °C Operating temperature, max. 100 °C Temperature range, installation, max. 100 °C Temperature range, installation, min30 °C Temperature, min. Temperature, min. Temperature, min. Temperature, min. Temperature, min. Temperature, min. Temperature, min. Temperature, min. Tem	No. of poles	5	Solder pin length (I)	3.2 mm	
Plugging cycles 25 Material data Insulating material LCP Colour chart (similar) RAL 9011 C11 ≥ 175 Moisture Level (MSL) 1 Contact surface Goldylated Storage temperature, min. -25 °C Storage temperature, min. -25 °C Operating temperature, max. 55 °C Operating temperature, max. 100 °C Temperature range, installation, max. 100 °C Temperature range, installation, max. 100 °C Rated data acc. to IEC EC002637 ETIM 4.0 EC002637 ETIM 5.0 EC002637 eClass 6.2 27.26-07-04 sClass 9.0 27.18-27-90 Notes Encordermity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assued properties in the data sheet resp. fulfil decorative pro in accordance with IPC-A610 °Class 2°. Further claims on the products can be evaluated on request.	Solder pin length tolerance	+0.1 / -0.3 mm	L1 in mm	20 mm	
Material data Insulating material LCP Colour chart (similar) RAL 9011 CTI ≥ 175 Moisture Level (MSL) 1 Max. relative humidity during storage 80 % Operating temperature, min. -25 °C Max. relative humidity during storage 80 % Operating temperature, max. 50 °C Operating temperature, max. 100 °C Temperature range, installation, max. 100 °C Rated data acc. to IEC EtCe 60664-1, IEC 61984 Class file acc. to standard IEC 600664-1, IEC 61984 Class 7.1 27.44.04-02 aclass 9.0 27.18-27.90 Reclass 9.0 27.18-27.90 Rotes 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 progin accordance with IPC-A610 °Class 2". Further claims on the products can be evaluated on request. Notes Approvals	∟1 in inches	0.787 inch	Pin series quantity	1	
Insulating material LCP Colour code black Colour chart (similar) RAL 9011 CTI ≥ 175 Moisture Level (MSL) 1 Storage temperature, min25 °C Max. relative Munidity during storage 80 % Operating temperature, max. 100 °C Temperature range, installation, min30 °C Temperature, max30 °C Temperature, max	Plugging cycles	25			
Colour chart (similar) RAL 9011 Insulating material group Illa CTI ≥ 175 Insulation strength ≥ 10 ⁶ Ω Moisture Level (MSL) 1 Contact surface Gold-plated Storage temperature, min. -25 °C Storage temperature, max. 55 °C Operating temperature, max. 100 °C Temperature range, installation, min. -50 °C Temperature range, installation, max. 100 °C Temperature range, installation, min. -30 °C Rated data acc. to IEC EC 60664-1, IEC 61984 EClassifications ETIM 4.0 EC002637 ETIM 5.0 EC002637 ETIM 6.0 EC001031 eClass 6.2 27-26-07-04 aClass 7.1 27-44-04-02 eClass 8.1 27-44-04-02 aClass 9.0 27-18-27-90 eClass 9.1 27-18-27-90 Notes Inscredended and norms and comply with the assured properties in the data sheet resp. fulfil decorative projin accordance with IPC-A-610 °Class 2". Further claims on the products can be evaluated on request. Approvals Approvals Approvals	Material data				
Colour chart (similar) RAL 9011 Insulating material group Illa CTI ≥ 175 Insulation strength ≥ 10 ⁶ Ω Moisture Level (MSL) 1 Contact surface Gold-plated Storage temperature, min. -25 °C Storage temperature, max. 55 °C Operating temperature, max. 100 °C Temperature range, installation, min. -50 °C Operating temperature, max. 100 °C Temperature range, installation, min. -30 °C Rated data acc. to IEC EC 60664-1, IEC 61984 Temperature range, installation, min. -30 °C Classifications ETIM 4.0 EC002637 ETIM 5.0 EC002637 ETIM 4.0 EC001031 eClass 6.2 27-24-04-02 aClass 7.1 27-44-04-02 eClass 9.1 27-18-27-90 Notes PC 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 proj in accordance with IPC-A-610 °Class 2". Further claims on the products can be evaluated on request. Approvals Approvals Approvals					
CTI ≥ 175 Moisture Level (MSL) 1 Storage temperature, min. -25 °C Max. relative humidity during storage 80 % Operating temperature, max. 100 °C Temperature range, installation, max. 100 °C Rated data acc. to IEC Temperature range, installation, min. -30 °C Rated data acc. to standard IEC 60664-1, IEC 61984 Class 6.2 27-26-07-04 Class 5.1 27-44-04-02 eClass 6.2 27-26-07-04 eClass 5.1 27-44-04-02 eClass 6.1 27-44-04-02 eClass 9.0 27-18-27-90 eClass 9.1 27-18-27-90 Notes Image: Standards and norms and comply with the assured properties in the data shere resp. fulfill decorative progin accordance with IPCA-610 °Class 2". Further claims on the products can be evaluated on request. Approvals Approvals Approvals					
Moisture Level (MSL) 1 Contact surface Gold-plated Storage temperature, min. -25 °C Operating temperature, max. 55 °C Max. relative humidity during storage 80 % Operating temperature, max. 55 °C Operating temperature, max. 100 °C Temperature, min. -50 °C Temperature range, installation, max. 100 °C Temperature range, installation, min. -30 °C Rated data acc. to IEC IEC 60664-1, IEC 61984 Ecou2637 ETIM 5.0 Ecou2637 ETIM 4.0 ECO02637 ECIM 5.0 ECO02637 ETIM 6.0 ECO01031 eClass 6.2 27-26-07-04 eClass 9.0 27-18-27-90 eClass 9.1 27-18-27-90 Notes IPC 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 projin accordance with IPC-A-610 °Class 2°. Further claims on the products can be evaluated on request. Approvals Approvals Image: Simple Si	, ,	KAL 9011			
Storage temperature, min. -25 °C Storage temperature, max. 55 °C Operating temperature, max. 100 °C Temperature, min. -50 °C Temperature range, installation, max. 100 °C Temperature range, installation, min. -30 °C Rated data acc. to IEC Etil 6:0664-1, IEC 61984 Classifications ETIM 4.0 EC002637 ETIM 5.0 EC002637 EC002637 ETIM 5.0 EC002637 EC100 5.2 Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheat resp. fulfil decorative proj in accordance with IPCA-610 "Class 2.". Further claims on the products can be evaluated on request. Approvals	-	≥ 175	Insulation strength	≥ 10 ⁸ Ω	
Max. relative humidity during storage 80 % Operating temperature, max. 100 °C Temperature range, installation, max. 100 °C Rated data acc. to IEC tested data acc. to standard IEC 60664-1, IEC 61984 Classifications ETIM 4.0 EC002637 ETIM 4.0 EC002637 ETIM 5.0 EC002637 ETIM 5.0 EC002637 eClass 6.2 27-26-07-04 eClass 8.1 27-44-04-02 eClass 9.0 27-18-27-90 eClass 9.1 27-18-27-90 Notes Notes Notes Notes Notes Notes PC 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 proj in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals	Moisture Level (MSL)	1	Contact surface	Gold-plated	
Operating temperature, max. 100 °C Temperature range, installation, max. 100 °C Rated data acc. to IEC IEC 60664-1, IEC 61984 Classifications IEC 60664-1, IEC 61984 Classifications ETIM 4.0 ETIM 4.0 EC002637 ETIM 6.0 EC001031 aClass 7.1 27-44-04-02 aClass 9.0 27-18-27-90 eClass 8.1 27-44-04-02 eClass 9.1 27-18-27-90 Notes Votes PC 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 progin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals JUSA SUBSERVIEW	Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C	
Temperature range, installation, max. 100 °C Rated data acc. to IEC tested acc. to standard IEC 60664-1, IEC 61984 Classifications ETIM 4.0 EC002637 ETIM 5.0 EC002637 ETIM 5.0 EC002637 ETIM 5.0 EC002637 Class 6.2 27-26-07-04 eClass 9.0 27-44-04-02 eClass 8.1 27-44-04-02 aclass 9.0 27-18-27-90 Notes PC 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 progin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals	Max. relative humidity during storage	80 %	Operating temperature, min.	-50 °C	
Easted data acc. to IEC Rested data acc. to standard IEC 60664-1, IEC 61984 Classifications ETIM 4.0 EC002637 ETIM 5.0 EC002637 eClass 5.1 27-44-04-02 eClass 9.0 27-18-27-90 Notes Notes PC 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 projin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals Approvals	Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C	
tested acc. to standard IEC 60664-1, IEC 61984 Classifications ETIM 4.0 EC002637 ETIM 6.0 EC001031 eClass 6.2 27-26-07-04 eClass 9.0 27-18-27-90 eClass 8.1 27-44-04-02 eClass 9.0 27-18-27-90 eClass 9.1 27-18-27-90 Notes Notes PC 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 pro in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals	Temperature range, installation, max.	100 °C			
Classifications ETIM 4.0 EC002637 ETIM 5.0 EC002637 ETIM 6.0 EC001031 eClass 6.2 27-26-07-04 eClass 7.1 27-44-04-02 eClass 8.1 27-44-04-02 eClass 9.0 27-18-27-90 eClass 9.1 27-18-27-90 Notes Notes 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 projin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals Conformity Conformity Conformation of the products can be evaluated on request.	Rated data acc. to IEC				
ETIM 6.0 EC001031 eClass 7.1 27.44-04-02 eClass 9.0 27.18-27-90 eClass 9.1 27.18-27-90 Notes IPC 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 projin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals Conformity Conformit	tested acc. to standard	IEC 60664-1, IEC 61984			
ETIM 6.0 EC001031 eClass 6.2 27-26-07-04 eClass 7.1 27-44-04-02 eClass 8.1 27-44-04-02 eClass 9.0 27-18-27-90 eClass 9.1 27-18-27-90 Notes Notes 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 projin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals Approvals	Classifications				
ETIM 6.0 EC001031 eClass 6.2 27-26-07-04 eClass 7.1 27-44-04-02 eClass 8.1 27-44-04-02 eClass 9.0 27-18-27-90 eClass 9.1 27-18-27-90 Notes Notes 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 projin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals Conformity Confor					
action 27-44-04-02 action 27-44-04-02 actions 9.0 27-18-27-90 actions 8.1 27-44-04-02 Action action 27-18-27-90 actions 9.1 27-18-27-90 Notes action action action actions 9.1 27-18-27-90 Notes action action action action action action 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 projin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals action	ETIM 4.0	EC002637	ETIM 5.0	EC002637	
eClass 9.0 27-18-27-90 eClass 9.1 27-18-27-90 Notes Notes 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 propin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals Image: Construction of the product of	ETIM 6.0	EC001031	eClass 6.2	27-26-07-04	
Notes 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 propin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals Conformity is a conformity in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.	eClass 7.1	27-44-04-02	eClass 8.1	27-44-04-02	
Notes 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 propin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals Conformity is the data sheet resp. fulfill decorative propin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.	eClass 9.0	27-18-27-90	eClass 9.1	27-18-27-90	
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 propin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals 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 propin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals 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 propin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.	Notes				
PC 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 propin accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. Approvals Approvals					
Approvals		Conformation Theory 1 of	almost and an an affective description of the Providence of the Pr		
	PC conformity	standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties			
c Tus lill	Approvals				
c Tus Lill					
ROHS Conform	Approvals	c R u	s		
	Roug	Conform			

Creation date February 20, 2019 6:54:20 PM CET

Catalogue status 15.02.2019 / We reserve the right to make technical changes.

Technical data





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

Drawings

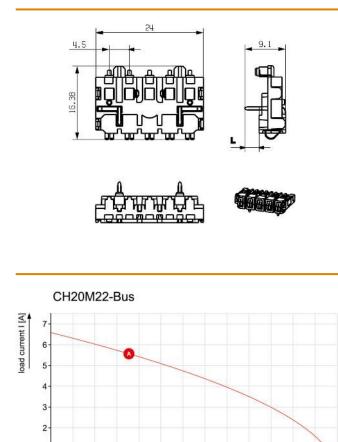
1

0+0

🚯 = 5 Modules = 25 Contacts

30 40 50 60 70

10 20





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

100 110 120 130

ambient temperature T [°C]

80 90

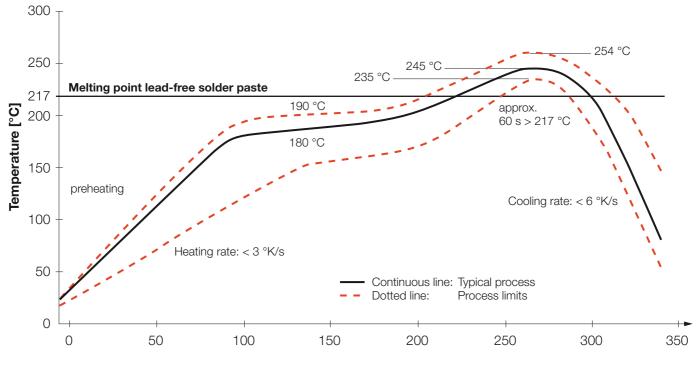
Reflow Profile

Recommended reflow soldering profile



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com



Time [sec]

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.

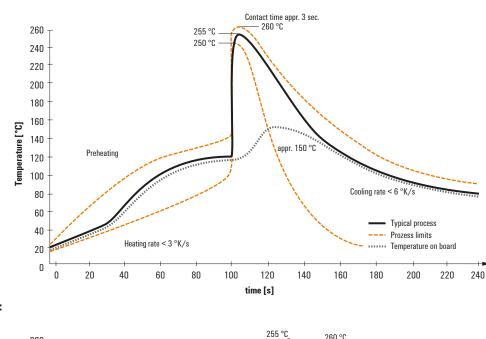
Wave Solder Profile

Recommended wave solderding profiles

Weidmüller 🟵

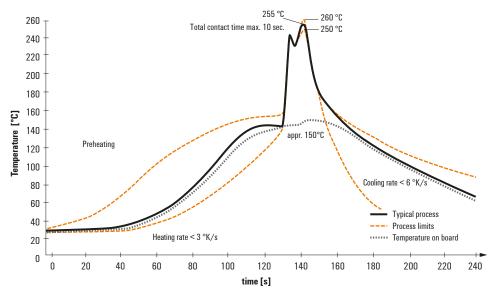
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com



Double Wave:

Single 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.

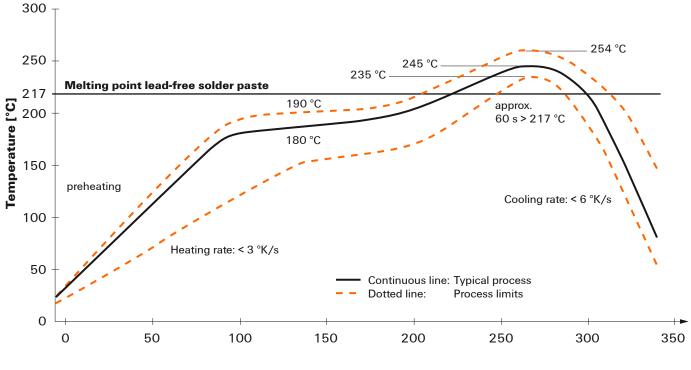
Reflow Solder Profile

Recommended reflow soldering profile



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com



Time [sec]

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.