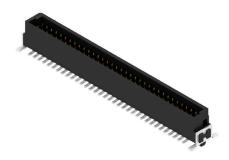


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image













1

OMNIMATE® - Board-to-Board connectors Flexible engineering of compact devices

The use of future-proof contact systems, as well as the optimisation of manufacturing processes, are increasingly important in the development of efficient industrial devices, especially in the field of Industry 4.0. OMNI-MATE® board-to-board connectors feature a 1.27 mm pitch and offer maximum flexibility due to different designs.

- Flexible device design Industrial suitable density combined with high flexible connection combinations (Mezzanine, Mother-to-Daughter, Extender-card, Cable-to-Board)
- Automation-Ready Developed for automatic assembly with high precise pin coplanarity and SMT-fixation
- Reliable contact Up to 500 mating cycles due to industry suitable gold-surface (PdNi-Au)
- Process-Ready High performance LCP material for reflow soldering
- Scalability Different heights with high contact overlapping ensure various solutions from 12 80 poles.
- Robust miniaturisation simple and safe connection even possible under unfavorable mating conditions – e.g. inclination or offset.

General ordering data

Version	PCB plug-in connector, male header, SMD solder connection, Pitch in mm (P): 1.27 mm, Number of poles: 68, 180°, Tape
Order No.	<u>2747050000</u>
Туре	FMH1 S1/68V F1 B RL
GTIN (EAN)	4064675001188
Qty.	280 ST
Product data	IEC: / 2.8 A UL: 150 V
Packaging	Таре





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Technical data

Approvals			
Approvals	c Flu s		
ROHS	Conform		
UL File Number Search	<u>UL Website</u>		
Certificate No. (cURus)	E92202		
Dimensions and weights			,
Dth	7.4	Double (in the ca)	0.0010 :
Depth	7.4 mm 7.6 mm	Depth (inches) Height (inches)	0.2913 inch 0.2992 inch
Height Width	48.26 mm	Width (inches)	1.9 inch
Net weight	2.14 g	width (inches)	1.9 IIICII
Environmental Product Comp	oliance		
RoHS Compliance Status	Compliant without exemptio	n	
REACH SVHC	No SVHC above 0.1 wt%		
System specifications			
Product family	OMNUMATE Signal Poord	Tune of connection	Board connection
Product lamily	OMNIMATE Signal - Board- to-Board	Type of connection	board connection
Mounting onto the PCB	SMD solder connection	Pitch in mm (P)	1.27 mm
Pitch in inches (P)	0.050 "	Outgoing elbow	180°
Number of poles	68	Number of solder pins per pole	1
Coplanarity:	0.1 mm	Number of rows	1
Pin series quantity	2	Protection degree	IP20
Volume resistance	<25 mΩ	Plugging cycles	500
Plugging force/pole, max.	0.6 N	Pulling force/pole, max.	0.6 N
Material data			
Insulating material	LCP	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Insulation strength	≥ 10 ¹⁰ Ω	Moisture Level (MSL)	Comparation
UL 94 flammability rating	V-0	Contact base material	Copper alloy
Contact material Layer structure of plug contact	Cu-alloy ≥ 2 µm Ni / ≥ 0.4 µm PdNi / ≥ 0.05 µm Au	Contact surface Storage temperature, min.	Gold over nickel -40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-55 °C
Operating temperature, max.	125 °C		
Rated data acc. to IEC			
	0.0.4		0.4
Rated current, min. number of poles (Tu=20°C)	2.8 A	Creepage distance, min.	0.4 mm
Clearance, min.	0.4 mm		
Rated data acc. to UL 1977			
Reference to approval values	Specifications are maximum values, details - see approval certificate.	Rated voltage (UL 1977) (obsolete)	150 V

Creation date 25.07.2025 03:22:18 MEZ

Catalogue status / Drawings 2





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Technical data

Packing			
Packaging	Tape	VPE length	361.00 mm
VPE width	346.00 mm	VPE height	148.00 mm
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.		
			Class 2 . I utilier claims on the product
Notes			class 2 . I druler claims on the product
Notes Classifications			class 2 . I druier claims on the product
			Class 2 . I druler claims on the product
Classifications			EC002637
Classifications ETIM 6.0	can be evaluated on r	equest.	
Classifications ETIM 6.0 ETIM 8.0	can be evaluated on r	equest. ETIM 7.0	EC002637
Classifications ETIM 6.0 ETIM 8.0 ETIM 10.0	EC002637	ETIM 7.0 ETIM 9.0	EC002637 EC002637
	EC002637 EC002637 EC002637	ETIM 7.0 ETIM 9.0 ECLASS 9.0	EC002637 EC002637 27-44-04-02
Classifications ETIM 6.0 ETIM 8.0 ETIM 10.0 ECLASS 9.1	EC002637 EC002637 EC002637 27-44-04-02	ETIM 7.0 ETIM 9.0 ECLASS 9.0 ECLASS 10.0	EC002637 EC002637 27-44-04-02 27-44-04-02

Catalogue status / Drawings



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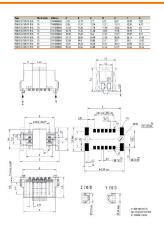
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Drawings

Product image

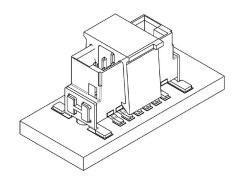


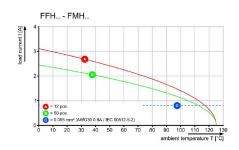
Dimensional drawing



Detailed drawing

Derating curve







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Drawings



