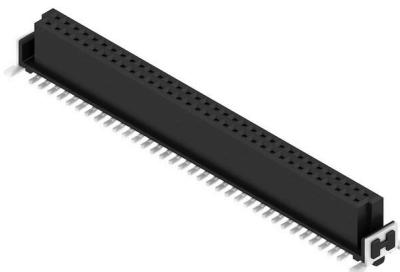


FFH6 S1/68V F1 B RL

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



OMNIMATE® - Board-to-Board connectors

Flexible engineering of compact devices

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General ordering data

Version	PCB plug-in connector, female header, SMD solder connection, Pitch in mm (P): 1.27 mm, Number of poles: 68, 180°, Tape
Order No.	2747320000
Type	FFH6 S1/68V F1 B RL
GTIN (EAN)	4064675001102
Qty.	280 items
Product data	IEC: / 2.8 A UL: 150 V
Packaging	Tape

FFH6 S1/68V F1 B RL

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E92202

Dimensions and weights

Depth	7.8 mm	Depth (inches)	0.3071 inch
Height	7.1 mm	Height (inches)	0.2795 inch
Width	48.26 mm	Width (inches)	1.9 inch
Net weight	7.71 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System specifications

Transmission rate	3.125 Gbit/s	Product family	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	IIIa
Insulation resistance	$\geq 10^{10} \Omega$	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact base material	Copper alloy
Contact material	Cu-alloy	Contact surface	Gold over nickel
Layer structure of plug contact	$\geq 2 \mu\text{m}$ Ni / $\geq 0.4 \mu\text{m}$ PdNi / $\geq 0.05 \mu\text{m}$ Au	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-55 °C
Operating temperature, max.	125 °C		

Rated data acc. to IEC

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
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Technical data**Packing**

Packaging	Tape	VPE length	350.00 mm
VPE width	340.00 mm	VPE height	135.00 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.
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Notes

Classifications

ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

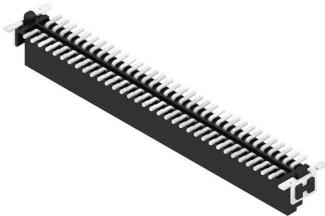
FFH6 S1/68V F1 B RL

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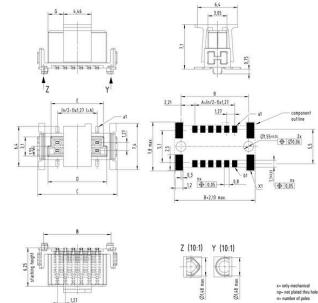
Drawings

Product image

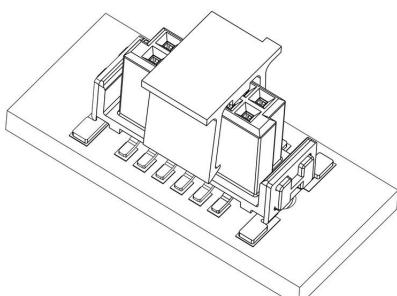


Dimensional drawing

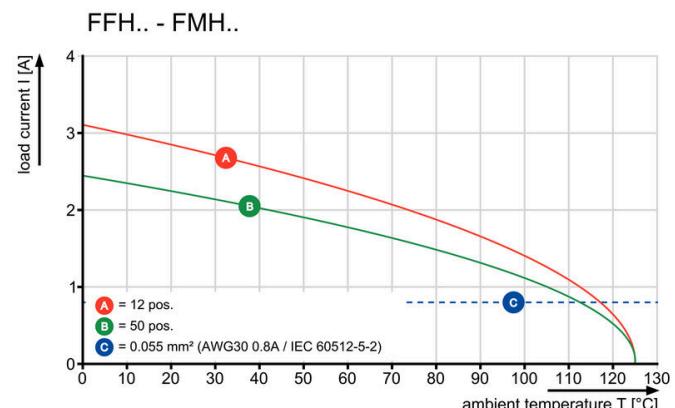
Type	Order no.	No. of pins	A	B	C	D	E	G
FFH6 S1/68V F1 B RL	274750000	12	0.35	10.77	12.7	9.37	8.37	2.46
FFH6 S1/68V F1 B RL	274750000	16	0.35	13.53	13.7	11.45	10.41	3.73
FFH6 S1/68V F1 B RL	274750000	20	0.45	13.85	17.79	14.45	13.45	5
FFH6 S1/68V F1 B RL	274750000	26	0.54	16.66	21.59	18.26	17.26	7.54
FFH6 S1/68V F1 B RL	274750000	32	0.54	23.47	25.4	22.07	21.03	8.11
FFH6 S1/68V F1 B RL	274750000	40	0.54	26.13	28.06	25.0	24.03	11.35
FFH6 S1/68V F1 B RL	274750000	50	0.48	34.29	36.85	33.5	32.5	15.16
FFH6 S1/68V F1 B RL	274750000	68	0.91	46.33	48.26	44.93	43.85	20.24
FFH6 S1/68V F1 B RL	274750000	80	0.83	53.98	55.59	52.55	51.55	24.05



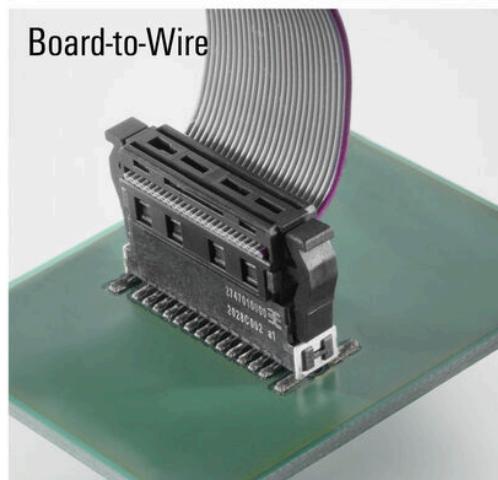
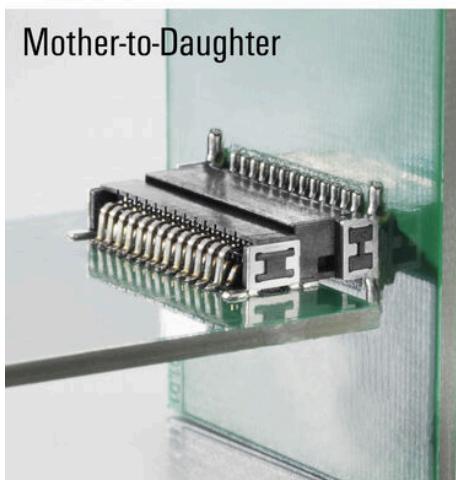
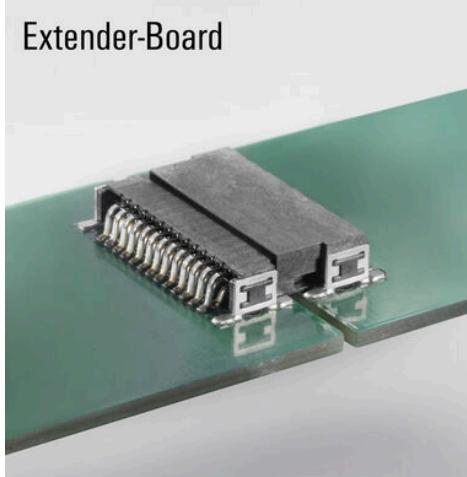
Detailed drawing



Derating curve



Drawings



FFH6 S1/68V F1 B RL

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Counterpart

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FMH - Male header, Board connection



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General ordering data

Type	FMH S1/68H F1 B RL	Version
Order No.	274723000	PCB plug-in connector, male header, SMD solder connection, Pitch in
GTIN (EAN)	4064675001027	mm (P): 1.27 mm, Number of poles: 68, 90°, Tape
Qty.	560 ST	

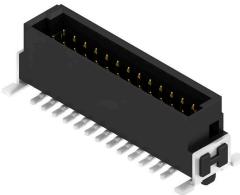
FFH6 S1/68V F1 B RL

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Counterpart

FMH1 - Male header, Board connection (stack height 1.75 mm)



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- Process-Ready - High performance LCP material for reflow soldering
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General ordering data

Type	FMH1 S1/68V F1 B RL	Version
Order No.	2747050000	PCB plug-in connector, male header, SMD solder connection, Pitch in
GTIN (EAN)	4064675001188	mm (P): 1.27 mm, Number of poles: 68, 180°, Tape
Qty.	280 ST	

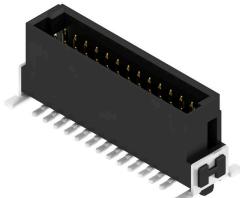
FFH6 S1/68V F1 B RL

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Counterpart

FMH3 - Male header, Board connection (stack height 3.25 mm)



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General ordering data

Type	FMH3 S1/68V F1 B RL	Version
Order No.	2747140000	PCB plug-in connector, male header, SMD solder connection, Pitch in
GTIN (EAN)	4064675001201	mm (P): 1.27 mm, Number of poles: 68, 180°, Tape
Qty.	280 ST	