

SMD male connectors - FP 1,27/68-MH - 1714921

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SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 68, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Male connector, mounting: SMD soldering



The figure shows a 12-pos. version with 12 contacts

Your advantages

- Gold-plated contacts ensure transfer quality remains stable over the long term
- Stacked, coplanar or orthogonal PCB connections enable maximum flexibility in the device
- Male and female connectors of different height can be combined for individual PCB spacing of 8 mm ... 13.8 mm











Key Commercial Data

Packing unit	560 pc
Minimum order quantity	560 pc
GTIN	4 055626 402987
GTIN	4055626402987

Technical data

Item properties

Brief article description	SMD male connectors
Plug-in system	FINEPITCH 1,27 mm
Type of contact	Male connector
Range of articles	FP 1,27/MH
Pitch	1.27 mm
Number of positions	68
Mounting type	SMD soldering
Pin layout	Linear pad geometry
Number of levels	2
Number of potentials	68



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Electrical data

Nominal current at 20 °C	1.4 A IEC 60512-5-2:2002-02 (50-pos.)
Test voltage	500 V AC IEC 60512-4-1:2003
Contact resistance	\leq 25 m Ω , (IEC 60512-2-1:2002-02)
Insulation resistance	≥ 10 GΩ, (IEC 60512-3-1:2002-02)

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Selective coating
Metal surface contact area (top layer)	Gold (Au)
Metal surface contact area (middle layer)	Nickel (Ni) Palladium nickel, (PdNi)
Metal surface soldering area (top layer)	Tin (Sn)

Material data - housing

Housing color	black (9005)
Insulating material	LCP
Insulating material group	Illa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

Dimensions for the product

Caption	Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center
Length [1]	7.2 mm
Width [w]	48.27 mm
Height [h]	5 mm
Pitch	1.27 mm
Height (without solder pin)	4.2 mm
Pin spacing	1.27 mm
Coplanarity	≤ 0.1 mm

Dimensions for PCB design

Pin spacing	1.27 mm
1 in Spacing	1.27 11111

Dimensions for the application

Contact cover	0.9 mm
Overlap length	1.5 mm
Medium offset	± 0.7 mm in longitudinal and transverse direction
Angular tolerance	± 4 ° in longitudinal direction
	± 2 ° in transverse direction

Packaging information

Type of packaging	72 mm wide tape
Pieces per package	560



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Packaging information

Denomination packing units	Pcs.
[W] tape width	72 mm
[A] coil diameter	330 mm
[W2] coil overall dimension	78.4 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07

General product information

Type of note	Notes on operation
Note	The permissible voltage during operation depends on the application, taking into consideration the air clearances and creepage distances within the scope of insulation requirements in accordance with IEC 60664-1.

Processing notes

Process	Reflow soldering
Specification	Following IPC/JEDEC J-STD-020E:2014-12
Moisture Sensitive Level	MSL 1
Classification temperature T _c	260 °C

Ambient conditions

Ambient temperature (storage/transport)	-40 °C 70 °C
Ambient temperature (assembly)	-5 °C 100 °C
Ambient temperature (operation)	-55 °C 125 °C

Mechanical tests

Insertion and withdrawal force per contact	0.5 N

Air clearances and creepage distances

Air clearances and creepage distances	min. 0.4 mm

Current carrying capacity / derating curves

Caption	Type: FP 1,27/FH with FP 1,27/MH
	1 . 7

Service life

Service life	500 Insertion/withdrawal cycles, Performance level 1
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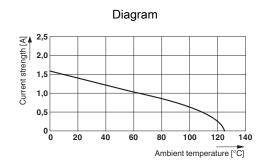
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings



SMD male connectors - FP 1,27/ 68-MH - 1714921



Type: FP 1,27/...-FH with FP 1,27/...-MH

Classifications

eCl@ss

eCl@ss 10.0.1	27440402
eCl@ss 11.0	27460201
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440402
eCl@ss 9.0	27440402

ETIM

ETIM 6.0	EC002637
ETIM 7.0	EC002637

Approvals

Approvals

Approvals

cULus Recognized

Ex Approvals

Approval details

cULus Recognized



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E118976-20170331



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Accessories

Additional products

SMD female connectors - FP 1,27/ 68-FV 9,05 - 1714888



SMD female connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 68, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Female connector, mounting: SMD soldering

SMD female connectors - FP 1,27/ 68-FV 6,25 - 1714899



SMD female connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 68, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Female connector, mounting: SMD soldering

SMD female connectors - FP 1,27/68-FH - 1714879



SMD female connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 68, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Female connector, mounting: SMD soldering

IDC female connectors - FP 1,27/68-FWL - 1714910



IDC female connector, Nominal current at 20 °C: 1.2 A, Test voltage: 500 V AC, number of positions: 68, pitch: 1.27 mm, Number of rows: 1, color: black, contact surface: Gold, type of contact: Female connector

Preassembled IDC female connector - FP 1,27/ 68-FWL-10/.../... - 1010253



Assembled IDC female connector, rated current: 1.2 A, cable length: Free input (0.05 ... 0.95 m), Cable type:Flat-ribbon conductor, Flat-ribbon conductor



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Accessories

Preassembled IDC female connector - FP 1,27/ 68-FWL-11/.../... - 1010244



Assembled IDC female connector, rated current: 1.2 A, cable length: Free input (0.05 ... 0.95 m), Cable type:Flat-ribbon conductor, Flat-ribbon conductor

Preassembled IDC female connector - FP 1,27/68-FWL-12/.../... - 1010235



Assembled IDC female connector, rated current: 1.2 A, cable length: Free input (0.05 ... 0.95 m), Cable type:Flat-ribbon conductor, Flat-ribbon conductor

Preassembled IDC female connector - FP 1,27/ 68-FWL-20/.../... - 1010221



Assembled IDC female connector, rated current: 1.2 A, cable length: Free input (0.05 ... 0.95 m), Cable type:Flat-ribbon conductor, Flat-ribbon conductor

Preassembled IDC female connector - FP 1,27/ 68-FWL-21/.../... - 1010200



Assembled IDC female connector, rated current: 1.2 A, cable length: Free input (0.05 ... 0.95 m), Cable type:Flat-ribbon conductor, Flat-ribbon conductor

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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany Tel. +49 5235 300

Tel. +49 5235 300 Fax +49 5235 3 41200

http://www.phoenixcontact.com