

## SMD female connectors - FP 1,27/ 50-FV 6,25 - 1714898

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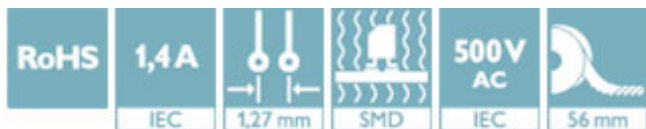


SMD female connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 50, pitch: 1.27 mm, color: black, contact surface: Gold, mounting: SMD soldering

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

### Your advantages

- ✓ Gold-plated contacts ensure transfer quality remains stable over the long term
- ✓ Compact, high-position board-to-board or wire-to-board connectors for space-saving device designs
- ✓ 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	280 pc
Minimum order quantity	280 pc
GTIN	
GTIN	4055626402772

### Technical data

#### Item properties

Brief article description	SMD female connectors
Plug-in system	Fine Pitch 1,27 mm
Type of contact	Female connector
Range of articles	FP 1,27/...-FV 6,25
Pitch	1.27 mm
Number of positions	50
Mounting type	SMD soldering
Pin layout	Linear pad geometry
Number of levels	2

#### Electrical data

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## Technical data

### Electrical data

Nominal current at 20 °C	1.4 A (50-pos.)
Test voltage	500 V AC
Contact resistance	≤25 mΩ, (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)	Palladium nickel (PdNi)Nickel (Ni)

### Material data - housing

Insulating material	LCP
Insulating material group	IIIa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

### Dimensions for the product

Length [ l ]	7.2 mm
Width [ w ]	36.84 mm
Height [ h ]	6.25 mm
Pitch	1.27 mm
Pin spacing	1.27 mm
Coplanarity	≤ 0.1 mm
Dimension a	30.48 mm

### Dimensions for PCB design

Pin spacing	1.27 mm
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### 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
Stack height	8 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 1,27/...-MV 1,75)
	9.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 1,27/...-MV 3,25)

### Packaging information

Type of packaging	56 mm wide tape
Pieces per package	280
Denomination packing units	Pcs.

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### Packaging information

[W] tape width	56 mm
[A] coil diameter	330 mm
[W2] coil overall dimension	62.4 mm
Outer packaging type	Transparent-Bag

### Processing notes

Process	Reflow soldering
Specification	Following IPC/JEDEC J-STD-020E:2014-12
Moisture Sensitive Level	MSL 1
Classification temperature T <sub>c</sub>	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	approx. 0.5 N
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### Air clearances and creepage distances

Air clearances and creepage distances	min. 0.4 mm
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### Service life

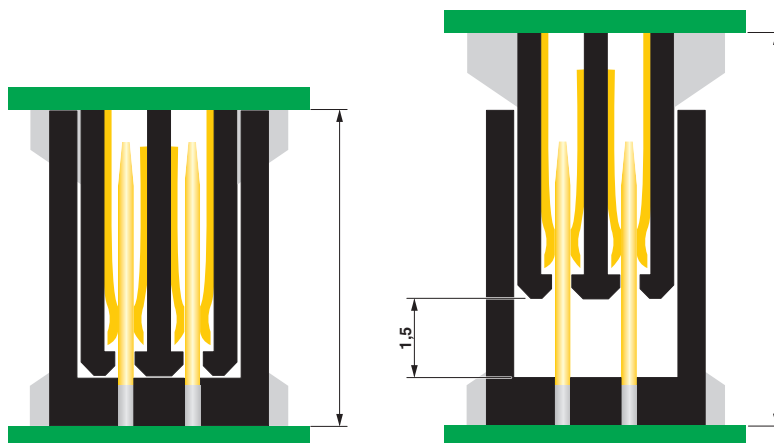
Service life	500 Insertion/withdrawal cycles, Performance level 1
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### Environmental Product Compliance

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

## Drawings

Schematic diagram



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### Approvals

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cULus Recognized

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#### Ex Approvals

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### Approval details

cULus Recognized



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

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