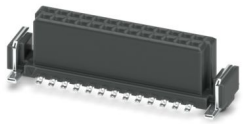
FR 1,27/ 26-FV 6,25 - SMD female connectors

1374030

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SMD female connector, nominal current: 2.2 A, test voltage: 840 V AC, number of positions: 26, pitch: 1.27 mm, color: black, contact surface: Au, contact connection type: Socket, mounting: SMD soldering

Your advantages

- The first high-speed data transmission at up to 28 Gbps using the established market standard, opens up new design possibilities.
- Robust 6-pos. to 100-pos. board-to-board and wire-to-board connectors ensure greater flexibility with regard to component options.
- Time savings during the development process with customer-specific simulations for data integrity
- Gold-plated contact points enable long-term stable signal transmission and currents of up to 2.3 A.
- Design-in support during device development using MCAD/ECAD data and a free sample service

Commercial data

Item number	1374030
Packing unit	280 pc
Minimum order quantity	280 pc
Sales key	AA
Product key	AAXAAB
GTIN	4063151734817
Weight per piece (including packing)	2.341 g
Weight per piece (excluding packing)	0.81 g
Customs tariff number	85366930
Country of origin	CN

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Technical data

Product properties

Product type	SMD female connector
Product family	FR 1,27/...-FV 6,25
Number of positions	26
Pitch	1.27 mm
Number of rows	2
Pin layout	Linear pad geometry

Electrical properties

Properties

Nominal current I_N	2.2 A IEC 60512-5-2:2002-02 (at 20°C 100-pos.)
Contact resistance	10 mΩ
Test voltage	840 V AC IEC 60512-4-1:2003-05

Data transmission

Data transmission rate	12 Gbps

Mounting

Mounting type	SMD soldering
Pin layout	Linear pad geometry

Processing notes

Process	Reflow soldering
Moisture Sensitive Level	MSL 1
Classification temperature T_c	260 °C
Solder cycles in the reflow	3

Material specifications

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)
Metal surface soldering area (top layer)	Tin (Sn)
Metal surface soldering area (middle layer)	Nickel (Ni)

Material data - housing

Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIb

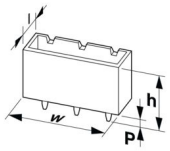
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CTI according to IEC 60112	150
Flammability rating according to UL 94	V0

Notes

Notes on operation	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.

Dimensions

Dimensional drawing	
Pitch	1.27 mm
Width [w]	22.2 mm
Height [h]	7 mm
Length [l]	7.2 mm
Installed height	6.25 mm

Application

Contact cover	0.9 mm
Center offset	± 0.7 mm in longitudinal and transverse direction
Stack height	8 mm Tolerance: +1,5 mm (in combination with Range of articles:FR 1,27/...-MV 1,75)
	9.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FR 1,27/...-MV 3,25)
Wipe length	1.5 mm
Angular tolerance	± 5 ° in longitudinal and transverse direction

PCB design

Pad geometry	0.8 x 1.1 mm

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-2:2002-02

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	≥ 5 GΩ

Air clearances and creepage distances |

Insulating material group	IIIb
Minimum value for clearance and creepage distance	0.43 mm

Environmental and real-life conditions

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Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 2000 - 10 Hz
Sweep speed	1 octave/min
Amplitude	1.5 mm (10 Hz ... 58 Hz)
Acceleration	200 m/s² (58 Hz ... 2000 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Durability test

Specification	IEC 60512-9-1:2010-03 (following)
Contact resistance R_1	10 mΩ
Contact resistance R_2	15 mΩ
Insertion/withdrawal cycles	500
Insulation resistance, neighboring positions	≥ 5 GΩ

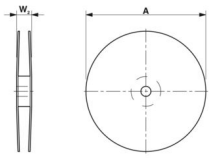
Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	490 m/s²
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

Ambient conditions

Ambient temperature (operation)	-55 °C ... 125 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

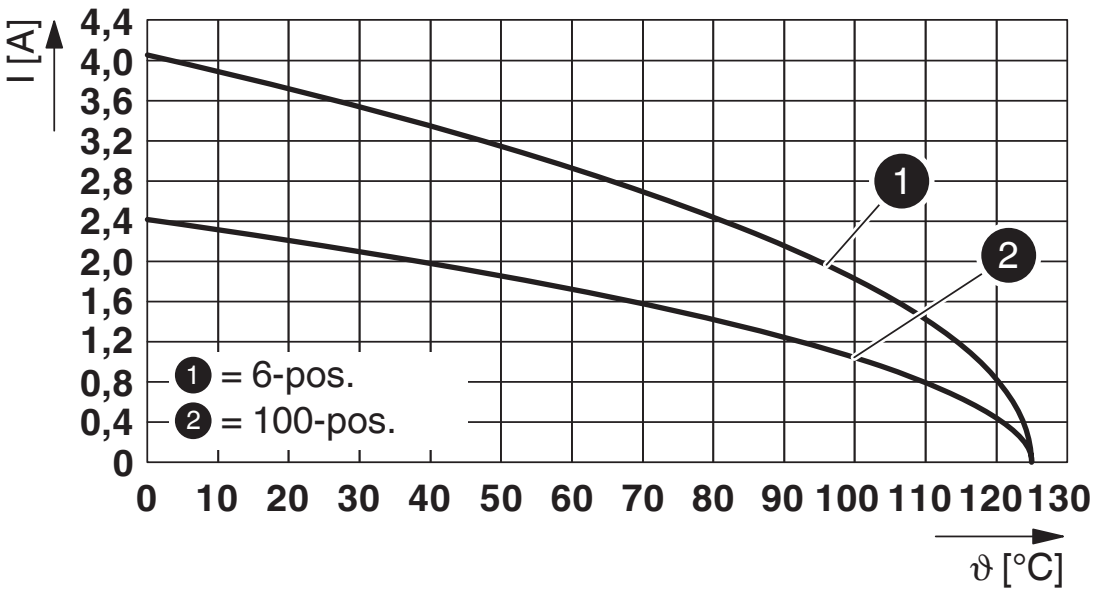
Packaging specifications

Dimensional drawing	
Type of packaging	44 mm wide tape
[W] tape width	44 mm
[W2] coil overall dimension	≤ 50.4 mm
[A] coil diameter	≤ 330 mm
Outer packaging type	Transparent-Bag

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Drawings

Diagram



Type: FR 1,27/...-FV 6,25 with FR 1,27/...-MV 1,75

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Approvals

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cUL Recognized
Approval ID: E118976-20230317

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	29.9 V	1.4 A	-	-

UL Recognized
Approval ID: E118976-20230317

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	29.9 V	2 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 9.0	EC002637

UNSPSC

UNSPSC 21.0	39121400

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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