

1337021

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SMD female connector, nominal current: 2.2 A, Test voltage: 500 V AC, number of positions: 100, 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	1337021
Packing unit	560 pc
Minimum order quantity	560 pc
Sales key	AA24
Product key	AAXAAA
GTIN	4063151638528
Weight per piece (including packing)	4.729 g
Weight per piece (excluding packing)	4.279 g
Customs tariff number	85366930
Country of origin	CN



1337021

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Technical data

Product properties

Product type	SMD female connector
Product family	FR 1,27/FH
Number of positions	100
Pitch	1.27 mm
Number of rows	2
Pin layout	Linear pad geometry
Data management status	
Article revision	0.1

Article revision	01

Electrical 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	500 V AC IEC 60512-4-1:2003

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

Waterial data Housing	
Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIb
CTI according to IEC 60112	150
Flammability rating according to UL 94	V0



1337021

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Notes

ap cre	ne permissible voltage during operation depends on the oplication, taking into consideration the air clearances and eepage distances within the scope of insulation requirements in occordance with IEC 60664-1.
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Dimensions

Dimensional drawing

	P
Pitch	1.27 mm
Width [w]	68.59 mm
Height [h]	4.53 mm
Length [I]	10.8 mm
Installed height	3.78 mm

Application

Contact cover	0.9 mm
Center offset	± 0.7 mm in longitudinal and transverse direction
Wipe length	1.5 mm
Angular tolerance	± 5 ° in longitudinal and transverse direction
DOD day's a	

PCB design

	-	
Pad geometry 0.8 x 0.8 mm	Pad geometry	0.8 x 0.8 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	0.4 mm		

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 2000 - 10 Hz
Sweep speed	1 octave/min



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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

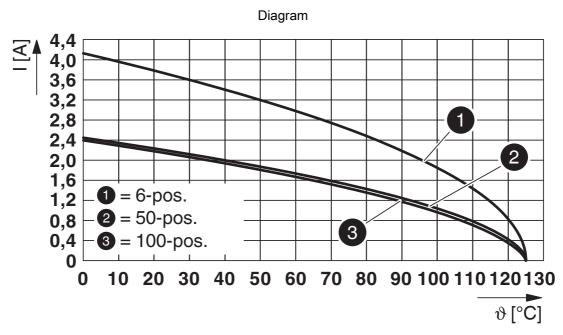
Dimensional drawing	
Type of packaging	88 mm wide tape
[W] tape width	88 mm
[W2] coil overall dimension	94.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



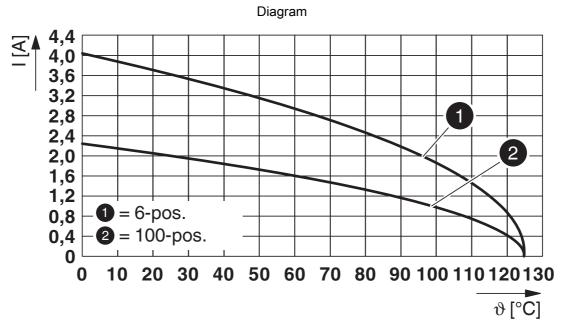
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Drawings



Type: FR 1,27/...-FH with FR 1,27/...-MV 3,25



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1337021

cUL Recognized Approval ID: E118976-20230317				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
	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
		29.9 V	2 A	-	-

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Classifications

ECLASS

ECLASS-11.0	27460201
ECLASS-12.0	27460201
ECLASS-13.0	27460201

ETIM

ETIM 9.0	EC002637



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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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