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SMD female connector, nominal current: 2.2 A, Test voltage: 500 V AC, number of positions: 80, 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	1337020
Packing unit	560 pc
Minimum order quantity	560 pc
Sales key	AA24
Product key	ААХААА
GTIN	4063151637958
Weight per piece (including packing)	3.879 g
Weight per piece (excluding packing)	3.879 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/FH
Number of positions	80
Pitch	1.27 mm
Number of rows	2
Pin layout	Linear pad geometry
Data management status	
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		
Color (Housing)	black (9005)	
Insulating material	LCP	
Insulating material group	IIIb	
CTI according to IEC 60112	150	
Flammability rating according to UL 94	VO	

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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.
Dir	nensions	
	Dimensional drawing	De the second se
	Pitch	1.27 mm
	Width [w]	55.89 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	\pm 5 $^{\circ}$ in longitudinal and transverse direction

PCB design

Pad geometry 0.4	0.8 x 0.8 mm
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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	$\geq 5 G\Omega$

Shocks

Specification	IEC 60068-2-27:2008-02	
Pulse shape	Semi-sinusoidal	
Acceleration	490 m/s ²	
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 %	

-5 °C ... 100 °C

Packaging specifications

Ambient temperature (assembly)

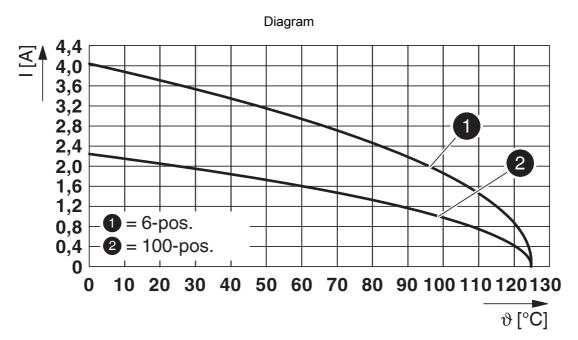
achaging op compations	
Dimensional drawing	
Type of packaging	72 mm wide tape
[W] tape width	72 mm
[W2] coil overall dimension	78.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



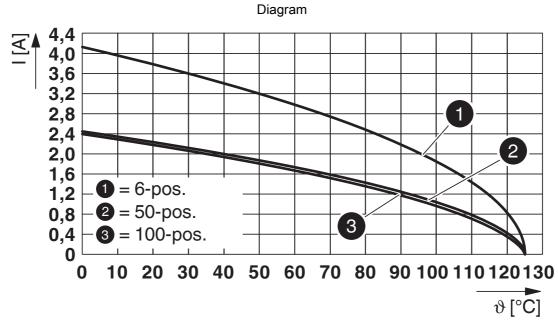
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Drawings



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



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



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Approvals

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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	-	-

F 1	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	-	-	

cULus Recognized

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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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