1337011

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SMD female connector, nominal current: 2.2 A, Test voltage: 500 V AC, number of positions: 16, 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	1337011		
Packing unit	560 pc		
Minimum order quantity	560 pc		
Sales key	AA24		
Product key	ААХААА		
GTIN	4063151637941		
Weight per piece (including packing)	1.48 g		
Weight per piece (excluding packing)	1.48 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	16		
Pitch	1.27 mm		
Number of rows	2		
Pin layout	Linear pad geometry		
Data management status			
Article revision	01		
Electrical properties			
Nominal current I <sub>N</sub>	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	V0	

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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.
nensions	
Dimensional drawing	THE HAND PAN
Pitch	1.27 mm
Width [w]	15.25 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

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	0.8 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	llib		
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 <sub>1</sub>	10 mΩ	
Contact resistance R <sub>2</sub>	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 %

-5 °C ... 100 °C

#### Packaging specifications

Ambient temperature (assembly)

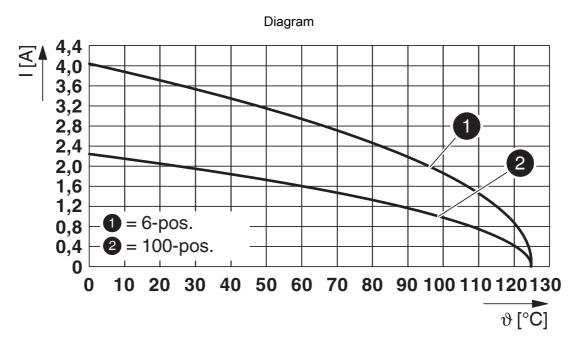
achaging op contrations	
Dimensional drawing	
Type of packaging	32 mm wide tape
[W] tape width	32 mm
[W2] coil overall dimension	38.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



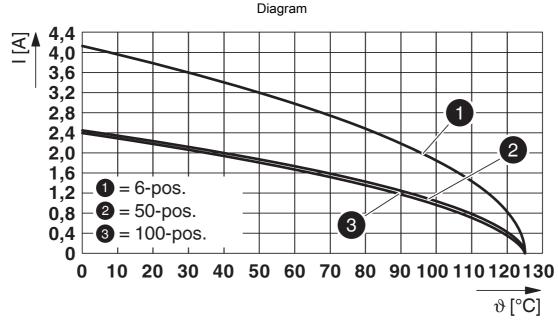
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## Drawings



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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Nominal voltage U <sub>N</sub> Nominal current I <sub>N</sub> Cross section AWG Cross section mm <sup>2</sup> 29.9 V 1.4 A - -	<b>.R</b> 1	<b>CUL Recognized</b> Approval ID: E118976-2	0230317			
29.9 V 1.4 A			Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
			29.9 V	1.4 A	-	-

Recognized roval ID: E118976-20230317			
Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
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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