

1337137

https://www.phoenixcontact.com/us/products/1337137

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SMD male connector, nominal current: 2.2 A, Test voltage: 840 V AC, number of positions: 6, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Pin, 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	1337137
Packing unit	280 pc
Minimum order quantity	280 pc
Product Key	AAXGAC
GTIN	4063151637293
Weight per Piece (including packing)	1.66 g
Weight per Piece (excluding packing)	22.22 g
Country of origin	CN



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Technical Data

Product properties

Product type	SMD male connector
Product family	FR 1,27/MV 3,25
Number of positions	6
Pitch	1.27 mm
Number of rows	2
Pin layout	Linear pad geometry

Electrical properties

Nominal current I _N	2.2 A IEC 60512-5-2:2002-02 (at 20°C 100-pos.)
Degree of pollution	3
Contact resistance	10 mΩ
Test voltage	840 V AC IEC 60512-4-1:2003

Mounting

Mounting type	SMD soldering
Pin layout	Linear pad geometry

Processing notes

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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.
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Dimensions

Dimensional drawing	h h
Pitch	1.27 mm
Width [w]	8.9 mm
Height [h]	9 mm
Length [I]	7.2 mm
Installed height	8.25 mm

Application

Contact cover	0.9 mm
Center offset	± 0.7 mm in longitudinal and transverse direction
Stack height	9.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FR 1,27/FV 6,25)
	12.3 mm Tolerance: +1,5 mm (in combination with Range of articles:FR 1,27/FV 9,05)
Wipe length	1.5 mm
Angular tolerance	± 5 ° in longitudinal and transverse direction

0.8 x 1.1 mm

Electrical tests

Pad geometry

Thermal	test l	Test	aroun	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	0.56 mm

Environmental and real-life conditions

Vibration test



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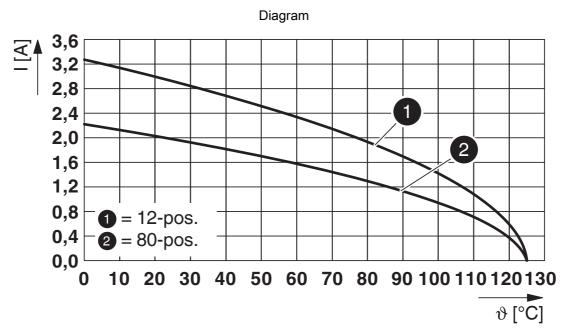
IEC 60068-2-6:2007-12
10 - 2000 - 10 Hz
1 octave/min
1.5 mm (10 Hz 58 Hz)
200 m/s² (58 Hz 2000 Hz)
2.5 h
IEC 60512-9-1:2010-03 (following)
10 mΩ
15 mΩ
500
≥ 5 GΩ
IEC 60068-2-27:2008-02
Semi-sinusoidal
490 m/s²
11 ms
X-, Y- and Z-axis (pos. and neg.)
-55 °C 125 °C
-40 °C 70 °C
30 % 70 %



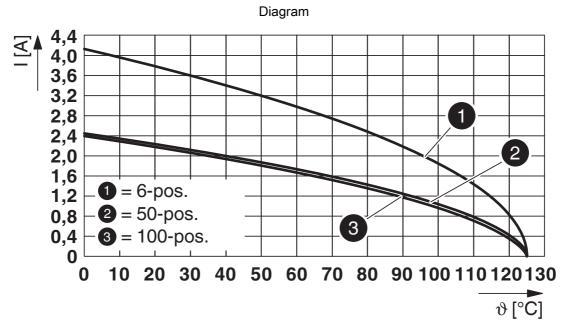
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Drawings



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



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1337137

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 8.0	EC002637	



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Mandatory Accessories

FR 1,27/ 6-FH - SMD female connectors

1337009

https://www.phoenixcontact.com/us/products/1337009



SMD female connector, nominal current: 2.2 A, Test voltage: 500 V AC, number of positions: 6, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Socket, mounting: SMD soldering

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

1374026

https://www.phoenixcontact.com/us/products/1374026



SMD female connector, nominal current: 2.2 A, Test voltage: 840 V AC, number of positions: 6, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Socket, mounting: SMD soldering



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FR 1,27/ 6-FV 9,05 - SMD female connectors

1374872

https://www.phoenixcontact.com/us/products/1374872



SMD female connector, nominal current: 2.1 A, Test voltage: 840 V AC, number of positions: 6, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Socket, mounting: SMD soldering

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