1337011

https://www.phoenixcontact.com/us/products/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: Gold, type of contact: 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 |
| Product Key | AAXAAA |
| GTIN | 4063151637941 |
| Weight per Piece (including packing) | 1.48 g |
| Weight per Piece (excluding packing) | 22.22 g |
| 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 |

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 | 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 | llib |
| 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. |
|---------------------|--|
| imensions | |
| Dimensional drawing | P ^A |
| 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 | \pm 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 |
|---------------------------|
|---------------------------|

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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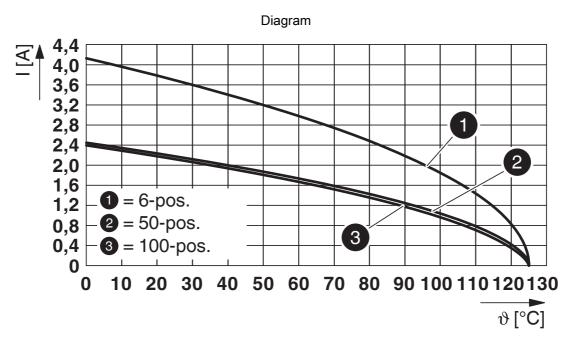
| Amplitude | 1.5 mm (10 Hz 58 Hz) |
|--|-----------------------------------|
| Sweep speed | 200 m/s² (58 Hz 2000 Hz) |
| Test duration per axis | 2.5 h |
| Purability test | |
| Specification | IEC 60512-9-1:2010-03 (following) |
| Contact resistance R ₁ | 10 mΩ |
| Contact resistance R ₂ | 15 mΩ |
| Insertion/withdrawal cycles | 500 |
| Insulation resistance, neighboring positions | ≥ 5 GΩ |
| hocks | |
| 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.) |
| mbient 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 |



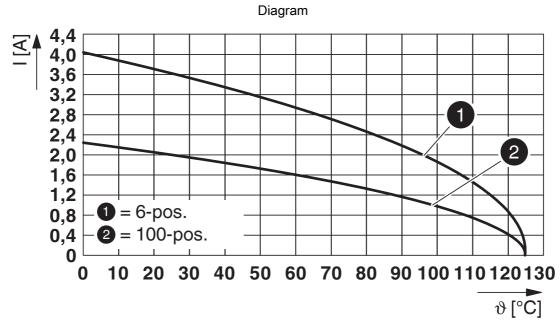
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Drawings



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/1337011

| CUL Re | ecognized ID: E118976-20230317 | | | |
|--------|-----------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal Voltage U _N | Nominal Current I _N | Cross Section AWG | Cross Section mm ² |
| | 29.9 V | 1.4 A | - | - |

| PU 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/ 16-MV 3,25 - SMD male connectors

1337139 https://www.phoenixcontact.com/us/products/1337139



SMD male connector, nominal current: 2.2 A, Test voltage: 840 V AC, number of positions: 16, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Pin, mounting: SMD soldering

FR 1,27/ 16-MH - SMD male connectors

1377298 https://www.phoenixcontact.com/us/products/1377298



SMD male connector, nominal current: 2 A, Test voltage: 500 V AC, number of positions: 16, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Pin, mounting: SMD soldering

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FR 1,27/ 16-MV 1,75 - SMD male connectors

1373828

https://www.phoenixcontact.com/us/products/1373828



SMD male connector, nominal current: 2.2 A, Test voltage: 840 V AC, number of positions: 16, pitch: 1.27 mm, color: black, contact surface: Gold, type of contact: Pin, mounting: SMD soldering

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