

FQ 1,27D/ 10-PV- 160-1-BR - Pin strip

1156861

<https://www.phoenixcontact.com/us/products/1156861>

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SMD pin header, nominal current: 1 A, test voltage: 500 V AC, number of positions: 10, pitch: 1.27 mm, color: black, contact surface: Au, contact connection type: Pin, mounting: SMD soldering

Your advantages

- Reliable mechanical and electrical connections thanks to the double-sided contact system
- Designed for integration into the SMT soldering process
- Clear and cost-optimized design
- Suitable for a multitude of applications

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1156861 |
| Packing unit | 700 pc |
| Minimum order quantity | 700 pc |
| Sales key | AA24 |
| Product key | AAXGAF |
| GTIN | 4063151160456 |
| Weight per piece (including packing) | 0.631 g |
| Weight per piece (excluding packing) | 0.6 g |
| Customs tariff number | 85366930 |
| Country of origin | CN |

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Technical data

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. |
|--------------------|--|

Product properties

| | |
|---------------------|---------------------|
| Product type | SMD pin header |
| Product family | FQ 1,27D/...-PV |
| Number of positions | 10 |
| Pitch | 1.27 mm |
| Number of rows | 2 |
| Pin layout | Linear pad geometry |

Electrical properties

Properties

| | |
|-----------------------|--------------------------------|
| Nominal current I_N | 1 A (at 20°C 80-pos.) |
| Contact resistance | 20 mΩ |
| Test voltage | 500 V AC IEC 60512-4-1:2003-05 |

Dimensions

| | |
|---------------------|---------|
| Dimensional drawing | |
| Pitch | 1.27 mm |
| Width [w] | 6.35 mm |
| Height [h] | 6 mm |
| Length [l] | 5.5 mm |
| Installed height | 5.1 mm |

Application

| | |
|---------------|---|
| Contact cover | 0.4 mm |
| Stack height | 6.2 mm Tolerance: +1.3 mm (in combination with Range of articles:FQ 1,27D/...-SV) |
| Wipe length | 1.3 mm |

PCB design

| | |
|--------------|---------------|
| Pad geometry | 0.76 x 2.4 mm |
|--------------|---------------|

Material specifications

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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) |

Material data - housing

| | |
|--|--------------|
| Color (Housing) | black (9005) |
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |

Connector

Connection 1

| | |
|----------------------------|-----|
| Insulating material | PA |
| CTI according to IEC 60112 | 600 |

Electrical tests

Thermal test | Test group C

| | |
|----------------------------|-----------------------|
| Specification | IEC 60512-5-2:2002-02 |
| Tested number of positions | 80 |

Insulation resistance

| | |
|--|-----------------------|
| Specification | IEC 60512-3-1:2002-02 |
| Insulation resistance, neighboring positions | > 1 GΩ |

Air clearances and creepage distances |

| | |
|---|---------|
| Insulating material group | I |
| Minimum value for clearance and creepage distance | 0.25 mm |

Mechanical tests

Insertion and withdrawal forces

| | |
|-------------------------------------|-------------|
| Result | Test passed |
| No. of cycles | 100 |
| Insertion strength per pos. approx. | 1.2 N |
| Withdraw strength per pos. approx. | 1.2 N |

Visual inspection

| | |
|---------------|-----------------------|
| Specification | IEC 60512-1-1:2002-02 |
| Result | Test passed |

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Dimension check

| | |
|---------------|-----------------------|
| Specification | IEC 60512-1-2:2002-02 |
| Result | Test passed |

Environmental and real-life conditions

Durability test

| | |
|--|-----------------------------------|
| Specification | IEC 60512-9-1:2010-03 (following) |
| Contact resistance R_1 | 20 m Ω |
| Contact resistance R_2 | 30 m Ω |
| Insertion/withdrawal cycles | 100 |
| Insulation resistance, neighboring positions | > 1 G Ω |

Vibration test

| | |
|------------------------|-----------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 55 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 1.52 mm |
| Acceleration | 181 m/s ² |
| Test duration per axis | 2 h |
| Test directions | X-, Y- and Z-axis |

Ambient conditions

| | |
|---|-------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C ... 125 °C |

Ambient conditions

| | |
|---|-------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |

Mounting

| | |
|---------------|---------------------|
| Mounting type | SMD soldering |
| Pin layout | Linear pad geometry |

Processing notes

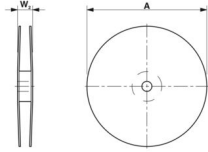
| | |
|----------------------------------|------------------|
| Process | Reflow soldering |
| Moisture Sensitive Level | MSL 1 |
| Classification temperature T_c | 260 °C |

Packaging specifications

FQ 1,27D/ 10-PV- 160-1-BR - Pin strip

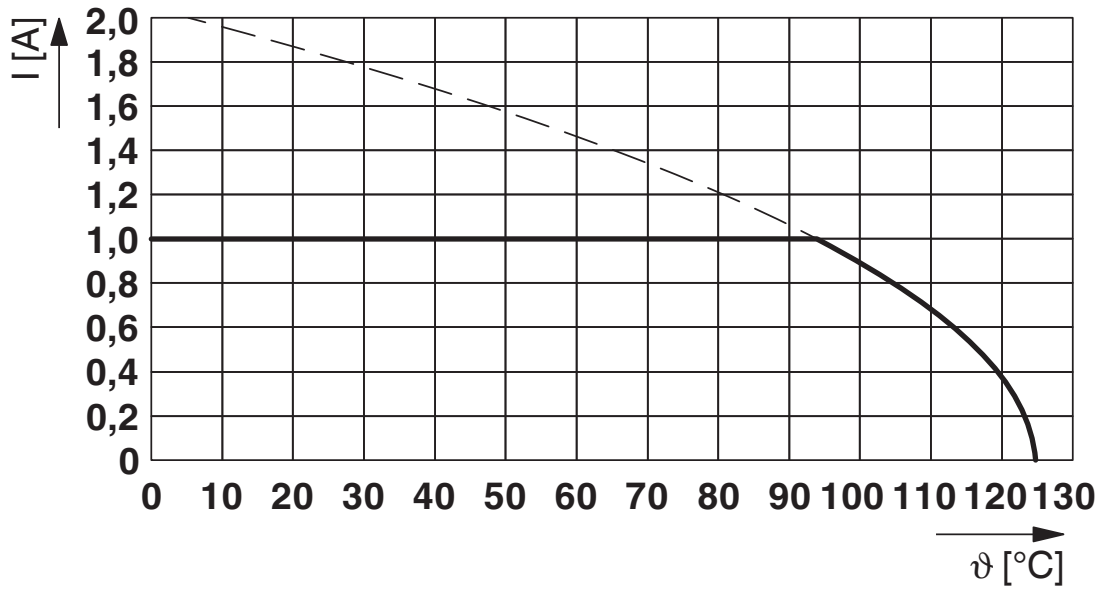
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| | |
|-----------------------------|--|
| Dimensional drawing |  |
| Type of packaging | 16 mm wide tape |
| [W] tape width | 16 mm |
| [W2] coil overall dimension | ≤ 22.4 mm |
| [A] coil diameter | ≤ 330 mm |
| Outer packaging type | Transparent-Bag |

Drawings

Diagram



Type: FQ 1,27D/...-SV- 490-1-BR with FQ 1,27D/...-PV- 160-1-BR

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Approvals

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|  cULus Recognized Approval ID: E118976 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 30 V | 1 A | - | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27460201 |
| ECLASS-15.0 | 27460201 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002637 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|--------------|
| CO2e kg | 0.11 kg CO2e |
|---------|--------------|

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