

MC 0,5/12-G-2,5-THTGN AUSN P26 - PCB header



1831989

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The figure shows a 10-position version of the product

PCB headers, nominal cross section: 0.5 mm², color: green, nominal current: 4 A, rated voltage (III/2): 160 V, contact surface: Au, contact connection type: Pin, number of potentials: 12, number of rows: 1, number of positions: 12, number of connections: 12, product range: MC 0,5/..-G-THT, pitch: 2.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 1, plug-in system: COMBICON FK-MC 0,5, Pin connector pattern alignment: Standard, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- Gold-plated contacts ensure transfer quality remains stable over the long term
- Designed for integration into the SMT soldering process

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1831989 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AA01 |
| Product key | AAATGA |
| GTIN | 4046356897204 |
| Weight per piece (including packing) | 4.24 g |
| Weight per piece (excluding packing) | 3.55 g |
| Customs tariff number | 85366930 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|---------------------------|------------------------|
| Product type | PCB headers |
| Product family | MC 0,5/..-G-THT |
| Product line | COMBICON Connectors XS |
| Number of positions | 12 |
| Pitch | 2.5 mm |
| Number of connections | 12 |
| Number of rows | 1 |
| Number of potentials | 12 |
| Mounting type | without |
| Pin layout | Linear pinning |
| Solder pins per potential | 1 |

Electrical properties

Properties

| | |
|-----------------------------|--------|
| Nominal current I_N | 4 A |
| Nominal voltage U_N | 160 V |
| Rated voltage (III/3) | 32 V |
| Rated surge voltage (III/3) | 1.5 kV |
| Rated voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated voltage (II/2) | 160 V |
| Rated surge voltage (II/2) | 1.5 kV |

Mounting

| | |
|---------------|----------------|
| Mounting type | THR soldering |
| Pin layout | Linear pinning |

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 | Completely gold-plated |
| Metal surface contact area (top layer) | Gold (0.8 μm - 1.4 μm Au) |
| Metal surface contact area (middle layer) | Nickel (2 μm - 3 μm Ni) |
| Metal surface soldering area (top layer) | Gold (0.8 μm - 1.4 μm Au) |
| Metal surface soldering area (middle layer) | Nickel (2 μm - 3 μm Ni) |

Material data - housing

| | |
|-----------------|--------------|
| Color (Housing) | green (6021) |
|-----------------|--------------|

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| | |
|---|--------|
| Insulating material | PA |
| Insulating material group | IIIa |
| CTI according to IEC 60112 | 250 |
| Flammability rating according to UL 94 | V0 |
| Glow wire flammability index GWFI according to EN 60695-2-12 | 850 |
| Glow wire ignition temperature GWIT according to EN 60695-2-13 | 775 |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

Dimensions

| | |
|-----------------------|---------|
| Dimensional drawing | |
| Pitch | 2.5 mm |
| Width [w] | 31.9 mm |
| Height [h] | 10.7 mm |
| Length [l] | 10.1 mm |
| Installed height | 8.1 mm |
| Solder pin length [P] | 2.6 mm |

PCB design

| | |
|---------------|--------|
| Hole diameter | 1.4 mm |
|---------------|--------|

Electrical tests

Air clearances and creepage distances |

| | |
|--|---------------------|
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | IIIa |
| Comparative tracking index (IEC 60112) | CTI 250 |
| Rated insulation voltage (III/3) | 32 V |
| Rated surge voltage (III/3) | 1.5 kV |
| minimum clearance value - non-homogenous field (III/3) | 0.8 mm |
| minimum creepage distance (III/3) | 1.3 mm |
| Rated insulation voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/2) | 1.5 mm |
| minimum creepage distance (III/2) | 1.6 mm |
| Rated insulation voltage (II/2) | 160 V |
| Rated surge voltage (II/2) | 1.5 kV |
| minimum clearance value - non-homogenous field (II/2) | 0.5 mm |
| minimum creepage distance (II/2) | 1.6 mm |

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Environmental and real-life conditions

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 ... 100 °C (dependent on the derating curve) |

Packaging specifications

| | |
|----------------------|---------------------|
| Type of packaging | packed in cardboard |
| Outer packaging type | Dry bag |

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

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