

CCA 2,5/ 5-G-5,08RNAUP26THRR56 - PCB header



1701640

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PCB headers, nominal cross section: 2.5 mm², color: black, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Au, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: CCA 2,5/..-G-RN, pitch: 5.08 mm, mounting: THR soldering / wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting method: without, type of packaging: 56 mm wide tape

Your advantages

- Gold-plated contacts ensure transfer quality remains stable over the long term
- Designed for integration into the SMT soldering process
- Maximum flexibility when it comes to device design – one header for connectors with different connection technologies
- Closed contour for optimum stability of the plug-in connection

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1701640 |
| Packing unit | 330 pc |
| Minimum order quantity | 330 pc |
| Note | Made to order (non-returnable) |
| Product key | AACTBD |
| GTIN | 4046356553254 |
| Weight per piece (including packing) | 3.863 g |
| Weight per piece (excluding packing) | 1.974 g |
| Country of origin | DE |

Technical data

Product properties

| | |
|---------------------------|--------------------------------------------|
| Product type | PCB headers |
| Product family | CCA 2,5/...-G-RN |
| Product line | COMBICON Connectors M |
| Type | Component suitable for through hole reflow |
| Number of positions | 5 |
| Pitch | 5.08 mm |
| Number of connections | 5 |
| Number of rows | 1 |
| Number of potentials | 5 |
| Mounting flange | Engagement nose |
| Pin layout | Linear pinning |
| Solder pins per potential | 1 |

Electrical properties

Properties

| | |
|-----------------------------|-------|
| Nominal current I_N | 12 A |
| Nominal voltage U_N | 320 V |
| Rated voltage (III/3) | 250 V |
| Rated surge voltage (III/3) | 4 kV |
| Rated voltage (III/2) | 320 V |
| Rated surge voltage (III/2) | 4 kV |
| Rated voltage (II/2) | 400 V |
| Rated surge voltage (II/2) | 4 kV |

Mounting

| | |
|---------------|--------------------------------|
| Mounting type | THR soldering / wave 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 | partially gold-plated |
| Metal surface contact area (top layer) | Gold (0.8 - 1.4 μm Au) |
| Metal surface contact area (middle layer) | Nickel (2 - 3 μm Ni) |
| Metal surface soldering area (top layer) | Tin (3 - 5 μm Sn) |
| Metal surface soldering area (middle layer) | Nickel (1 - 3 μm Ni) |

Material data - housing

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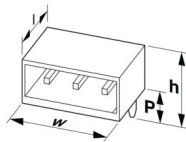
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| | |
|----------------------------------------|--------------|
| Color (Housing) | black (9005) |
| Insulating material | LCP |
| Insulating material group | IIIa |
| CTI according to IEC 60112 | 175 |
| Flammability rating according to UL 94 | V0 |

Notes

| | |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load. |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Dimensions

| | |
|-----------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Pitch | 5.08 mm |
| Width [w] | 28.2 mm |
| Height [h] | 11.17 mm |
| Length [l] | 12 mm |
| Installed height | 8.57 mm |
| Solder pin length [P] | 2.6 mm |
| Pin dimensions | 1 x 1 mm |

PCB design

| | |
|---------------|--------|
| Hole diameter | 1.6 mm |
|---------------|--------|

Electrical tests

Air clearances and creepage distances |

| | |
|--------------------------------------------------------|---------------------|
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | IIIa |
| Comparative tracking index (IEC 60112) | CTI 175 |
| Rated insulation voltage (III/3) | 250 V |
| Rated surge voltage (III/3) | 4 kV |
| minimum clearance value - non-homogenous field (III/3) | 3 mm |
| minimum creepage distance (III/3) | 4 mm |
| Rated insulation voltage (III/2) | 320 V |
| Rated surge voltage (III/2) | 4 kV |
| minimum clearance value - non-homogenous field (III/2) | 3 mm |
| minimum creepage distance (III/2) | 3.2 mm |
| Rated insulation voltage (II/2) | 400 V |
| Rated surge voltage (II/2) | 4 kV |
| minimum clearance value - non-homogenous field (II/2) | 3 mm |

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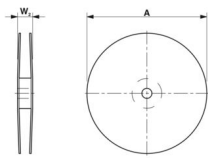
| | |
|----------------------------------|------|
| minimum creepage distance (II/2) | 4 mm |
|----------------------------------|------|

Environmental and real-life conditions

Ambient conditions

| | |
|-----------------------------------------|-----------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 100 °C (dependent on the derating curve) |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |

Packaging specifications


| | |
|-----------------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Type of packaging | 56 mm wide tape |
| [W] tape width | 56 mm |
| [W2] coil overall dimension | ≤ 62.4 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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Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1701640>

|  cULus Recognized Approval ID: E60425-19931011 | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| Use group B | | | | |
| Standard | 300 V | 16 A | - | - |
| Use group D | | | | |
| Standard | 300 V | 10 A | - | - |
| Alternative 1 | 150 V | 15 A | - | - |

|  VDE approval of drawings Approval ID: 40050079 | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 320 V | 16 A | - | - |

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Classifications

ECLASS

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|-------------|----------|
| ECLASS-13.0 | 27460201 |
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ETIM

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| ETIM 9.0 | EC002637 |
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UNSPSC

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|-------------|----------|
| 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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