

Feed-through header - ICC20-H/3L5,0-7035 - 2203900

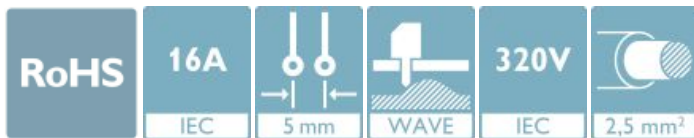
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PCB header, nominal cross section: 2.5 mm², color: light gray, nominal current: 16 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Male connector, number of potentials: 3, Number of rows: 1, Number of positions per row: 3, number of connections: 3, product range: ICC..-H/..L5,0, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, Pin connector pattern alignment: Standard, Locking: Snap-in locking, mounting: without, type of packaging: Box packaging, Product with pin output on left side

Your advantages

- ✓ Variable coding, for reliable protection against incorrect connection
- ✓ Designed for integration into the wave soldering process
- ✓ Easy and fast push-in mounting of assembled printed-circuit boards, thanks to stable guide rails
- ✓ Quick and easily coded when initially connecting the connector and header



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| GTIN |  4 055626 466057 |
| GTIN | 4055626466057 |

Technical data

Item properties

| | |
|---------------------------|---------------------|
| Brief article description | Feed-through header |
| Type of contact | Male connector |
| Range of articles | ICC..-H/..L5,0 |
| Pitch | 5 mm |
| Number of positions | 3 |
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |
| Locking | without |
| Number of levels | 1 |
| Number of connections | 3 |
| Number of potentials | 3 |

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Technical data

Electrical parameters

| | |
|-----------------------------|-------|
| Nominal current | 16 A |
| Nom. voltage | 320 V |
| Rated voltage (III/3) | 250 V |
| Rated voltage (III/2) | 320 V |
| Rated voltage (II/2) | 630 V |
| Rated surge voltage (III/3) | 4 kV |
| Rated surge voltage (III/2) | 4 kV |
| Rated surge voltage (II/2) | 4 kV |

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 | Tin-plated |
| Metal surface terminal point (top layer) | Tin (2 - 4 µm Sn) |
| Metal surface terminal point (middle layer) | Nickel (1.3 - 3 µm Ni) |
| Metal surface contact area (top layer) | Tin (2 - 4 µm Sn) |
| Metal surface contact area (middle layer) | Nickel (1.3 - 3 µm Ni) |
| Metal surface soldering area (top layer) | Tin (2 - 4 µm Sn) |
| Metal surface soldering area (middle layer) | Nickel (1.3 - 3 µm Ni) |

Material data - housing

| | |
|---|-------------------|
| Housing color | light gray (7035) |
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| 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 for the product

| | |
|----------------|--|
| Caption | Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center |
| Length [l] | 20.12 mm |
| Width [w] | 20 mm |
| Height [h] | 22.4 mm |
| Pitch | 5 mm |
| Solder pin [P] | 3.5 mm |
| Pin dimensions | 1 x 1 mm |

Dimensions for PCB design

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

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Technical data

Packaging information

| | |
|----------------------------|---------------|
| Type of packaging | Box packaging |
| Pieces per package | 50 |
| Denomination packing units | Pcs. |
| Outer packaging type | Carton |

General product information

| | |
|--------------|---|
| Type of note | Assembly instruction: |
| Note | Refer to the data sheet for the range in the download area. |

Ambient conditions

| | |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 55 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C ... 105 °C (dependent on the derating curve) |
| Relative humidity (storage/transport) | 80 % |

Air clearances and creepage distances

| | |
|---|--------|
| Minimum clearance - inhomogeneous field (III/3) | 3 mm |
| Minimum clearance - inhomogeneous field (III/2) | 3 mm |
| Minimum clearance - inhomogeneous field (II/2) | 3 mm |
| Minimum creepage distance value (III/3) | 3.2 mm |
| Minimum creepage distance value (III/2) | 1.6 mm |
| Minimum creepage distance value (II/2) | 3.2 mm |

Mechanical test group (A)

| | |
|-------------------------------------|------------------------|
| Test specification | IEC 61984 |
| Visual inspection | IEC 60512-1-1:2002-02 |
| Dimension check | IEC 60512-1-2:2002-02 |
| Insertion and withdrawal force | IEC 60512-13-2:2006-02 |
| No. of cycles | 25 |
| Insertion strength per pos. approx. | 13 N |
| Withdraw strength per pos. approx. | 8 N |
| Polarization and coding | IEC 60512-13-5:2006-02 |
| Contact holder in insert | IEC 60512-15-1:2008-05 |
| Test force per pos. | 20 N |

Life cycle test group (B)

| | |
|---------------|-----------------------|
| Specification | IEC 60512-9-1:2010-03 |
|---------------|-----------------------|

Thermal tests (C)

| | |
|---|-----------------------|
| Specification | IEC 60512-5-1:2002-02 |
| Number of positions | 4 |
| Upper limiting temperature requirements <100 °C | Test passed |

Climatic test group (D)

| | |
|---------------|------------------|
| Specification | ISO 6988:1985-02 |
|---------------|------------------|

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Technical data

Climatic test group (D)

| | |
|--|---|
| Cold stress | -40 °C/2 h |
| Thermal stress | 105 °C/168 h |
| Corrosive stress | 0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle |
| Impulse withstand voltage at sea level | 4.8 kV |
| Power-frequency withstand voltage | 2.21 kV |

Degree of protection test group (E)

| | |
|---------------------------------------|-------------------------------------|
| Specification | IEC 61984:2008-10 |
| Result, degree of protection, IP code | Finger safety with IP20 test finger |

Vibration test

| | |
|------------------------|------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 - 60.1 Hz) |
| Acceleration | 5 g (60.1 - 150 Hz) |
| Test duration per axis | 2.5 h |
| Test directions | X-, Y- and Z-axis |

Standards and Regulations

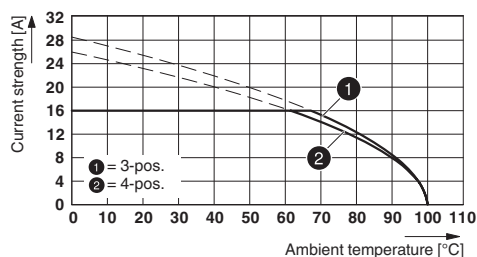
| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Environmental Product Compliance

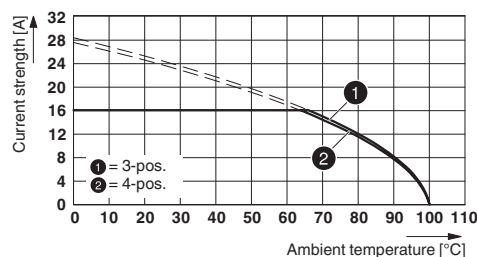
| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Diagram



Diagram



Type: PSPT 2,5/...-ST ... with ICC20(25)-H/...L(R)5,0-...

Type: MSTBT 2,5 HC/...-STF with ICC20(25)-H/...L(R)5,0-...

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27440402 |
| eCl@ss 11.0 | 27460201 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440402 |
| eCl@ss 9.0 | 27440402 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC001031 |
| ETIM 6.0 | EC002637 |
| ETIM 7.0 | EC002637 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121409 |
| UNSPSC 18.0 | 39121409 |
| UNSPSC 19.0 | 39121409 |
| UNSPSC 20.0 | 39121409 |
| UNSPSC 21.0 | 39121409 |

Approvals


Approvals

Approvals

cULus Recognized / EAC

Ex Approvals

Approval details

| | | | |
|--------------------|---|---|-----------------|
| cULus Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-20181123 |
| | B | D | |
| Nominal voltage UN | 300 V | 150 V | |
| Nominal current IN | 16 A | 15 A | |

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Approvals

EAC



B.01687

Accessories

Additional products

Printed-circuit board connector - PSPT 2,5/ 3-ST KMGY - 2202345



PCB connector, nominal cross section: 2.5 mm², color: light gray, nominal current: 16 A, rated voltage (III/2): 300 V, contact surface: Tin, type of contact: Female connector, number of potentials: 3, Number of rows: 1, Number of positions per row: 3, number of connections: 3, product range: PSPT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, Locking clip: - Locking clip, Locking: without, mounting: without, type of packaging: packed in cardboard, Color of the spring lever: orange

Printed-circuit board connector - MSTBT 2,5 HC/ 3-STP GY7035 - 2200333



PCB connector, nominal cross section: 2.5 mm², color: light gray, nominal current: 16 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, Number of rows: 1, Number of positions per row: 3, product range: MSTBT 2,5 HC/..-STP, pitch: 5 mm, connection method: Screw connection with tension sleeve, conductor/PCB connection direction: 0 °, plug-in system: POWER COMBICON 2,5, Locking: without, mounting: without, type of packaging: packed in cardboard

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