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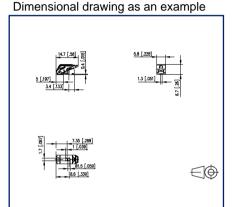
P/N SM99S01VBNN04G7

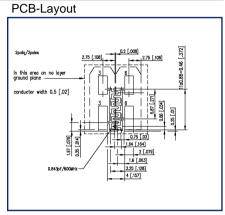
> 2024/12/03 Version: Al

### **Data sheet** SM99S01VBNN04G7 red

### Illustrations









See enlarged drawings at the end of document

#### **Product specification**

- · spring clamp terminal block, SMT solderable
- direction of connection 90°
- · fittable without loss of poles
- color red
- Tape & Reel packaging
- · finger push-button
- · test point and wire connection indicator
- Variants: black, creme white, yellow, green, red, blue, orange, gray, brown, white





# Data sheet SM99S01VBNN04G7 red

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| Technical Data            |   |
|---------------------------|---|
| General Data              |   |
| pole size                 | 1   |
| Insulating material class | CTI 600   |
| Protection category       | IP20  |
| Insul. strip length       | 7 mm  |
| Rated current             | 9 A   |
| Terminal data             |   |
| rat.wiring solid AWGmax   | 0.2 mm <sup>2</sup> - 1.5 mm <sup>2</sup> / AWG 24 - AWG 16 |
| rat.wiring strand.AWGmax  | 0.2 mm <sup>2</sup> - 1.5 mm <sup>2</sup> / AWG 24 - AWG 16 |
| Approvals                 |   |
| CT US V/A/AWG             | 300 / 9 / 24 - 16   |
| approval UL - File No.    | E121004   |
| 0.75 mm²                  | 9 A / T60   |

| Transmission characteristics                            |   |
|---|---|
| 2-pole   Data transmission according to IEEE 802.3cg    | 10 Mbit/s up to 1.000 m STP   |
| 2-pole   Data transmission according to IEEE 802.3bp    | 1GBit/s up to 15 m UTP<br>1GBit/s up to 40 m STP                                  |
| 4-pole   Data transmission according to IEEE 802.3i/u/y | 10/100 MBit/s up to 100 m   |
| 8-pole   Data transmission according to IEEE 802.3ab    | 1 GBit/s up to 100 m  |
| 8-pole   Data transmission according to IEEE 802.3an    | 10 GBit/s up to 100 m   |
| 2-pole   Power transmission                             | PoDL, IEEE 802.3bu 60 W   |
| 4-pole   Power transmission                             | PoE, IEEE 802.3af, 15,4 W<br>PoE+, IEEE 802.3at, 30 W                             |
| 8-pole   Power transmission                             | PoE, IEEE 802.3af, 15,4 W<br>PoE+, IEEE 802.3at, 30 W<br>4PPoE, IEEE802.3bt, 90 W |
| Material  |   |
| insulating material                                     | PPA   |
| flammability class                                      | V0  |
| spring material   | Spring steel  |
| contact material  | CuSn  |









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| Technical Data              |   |
|-----------------------------|---|
| Contact surface             | Sn  |
| Glow-Wire Flammability GWFI | 850 °C acc. to IEC 60695-2-12   |
| Glow-Wire Flammability GWIT | 775 °C acc. to IEC 60695-2-13   |
| Climatic Data               |   |
| upper limit temperature     | 105 °C  |
| lower limit temperature     | -40 °C  |
| general                     |   |
| Tolerance                   | ISO 2768 -mH  |
| Solderability               | reflowable  |
| Note PCB compensation       | The PCB compensation is necessary to achieve the specified data transmission specifications |

#### **Application note**

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).







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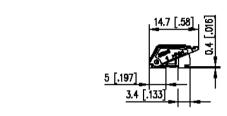
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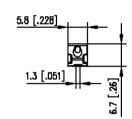
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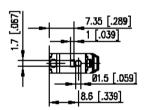
**Data sheet** 

Dimensional drawing as an example

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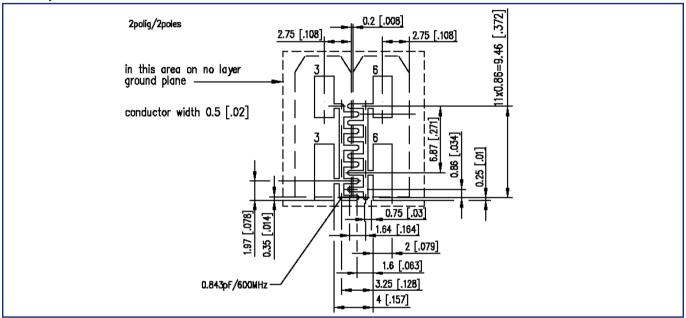
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### Illustrations

PCB-Layout



- PCB with solder resist
- PCB thickness: 1.5 mm / 2-ply
- Material: FR4
- Dielectric constant: relative permittivity = 4.4
- Copper thickness: 40 µm







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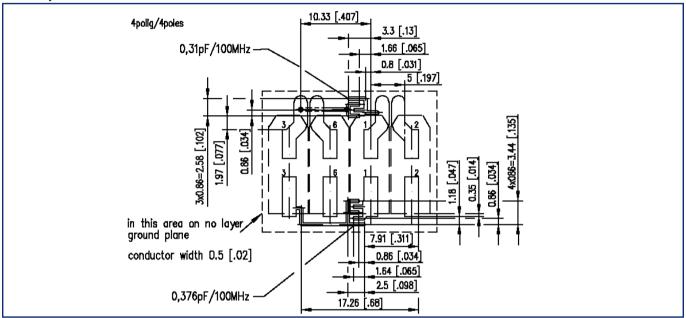
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### P/N SM99S01VBNN04G7

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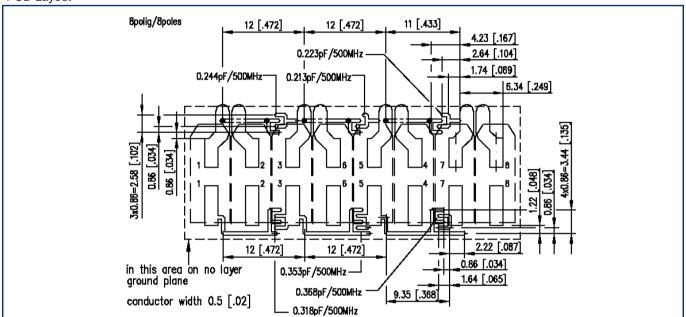
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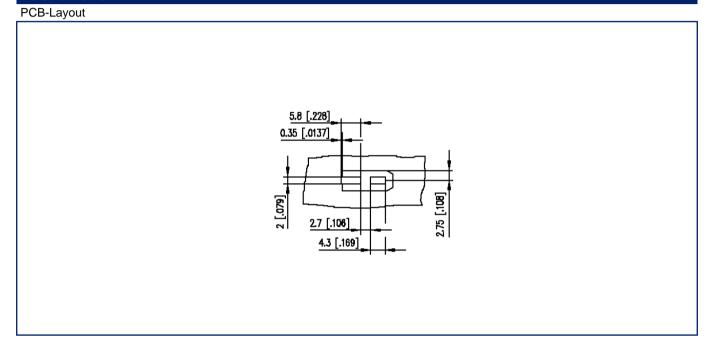
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