

Data sheet

SM99S01VBNN05G7 blue

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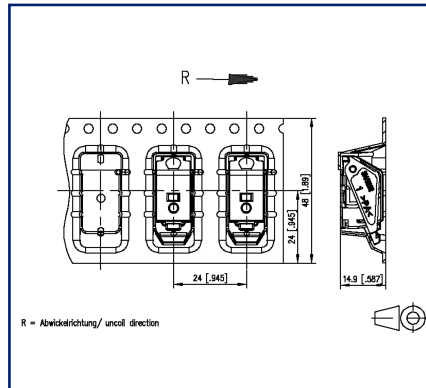
P/N
SM99S01VBNN05G7

2026/09/08
Version: AO

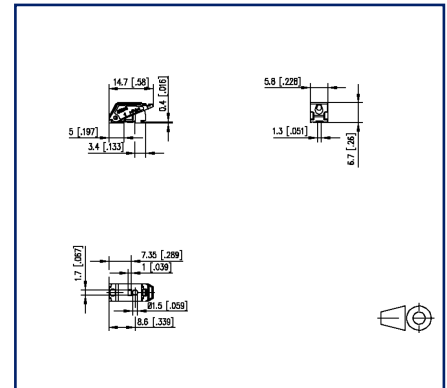
Illustrations



Dimensional drawing as an example



Dimensional drawing as an example



See enlarged drawings at the end of document

Product specification

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



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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 ² - 1.5 mm ² / AWG 24 - AWG 16
rat.wiring strand.AWGmax	0.2 mm ² - 1.5 mm ² / AWG 24 - AWG 16

Approvals

 V / A / AWG	300 / 9 / 24 - 16
approval UL - File No.	E121004
	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 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 PoE+, IEEE 802.3at, 30 W
8-pole Power transmission	PoE, IEEE 802.3af, 15,4 W PoE+, IEEE 802.3at, 30 W 4PPoE, IEEE802.3bt, 90 W

Material

insulating material	PPA
flammability class	V0
spring material	Spring steel
contact material	CuSn

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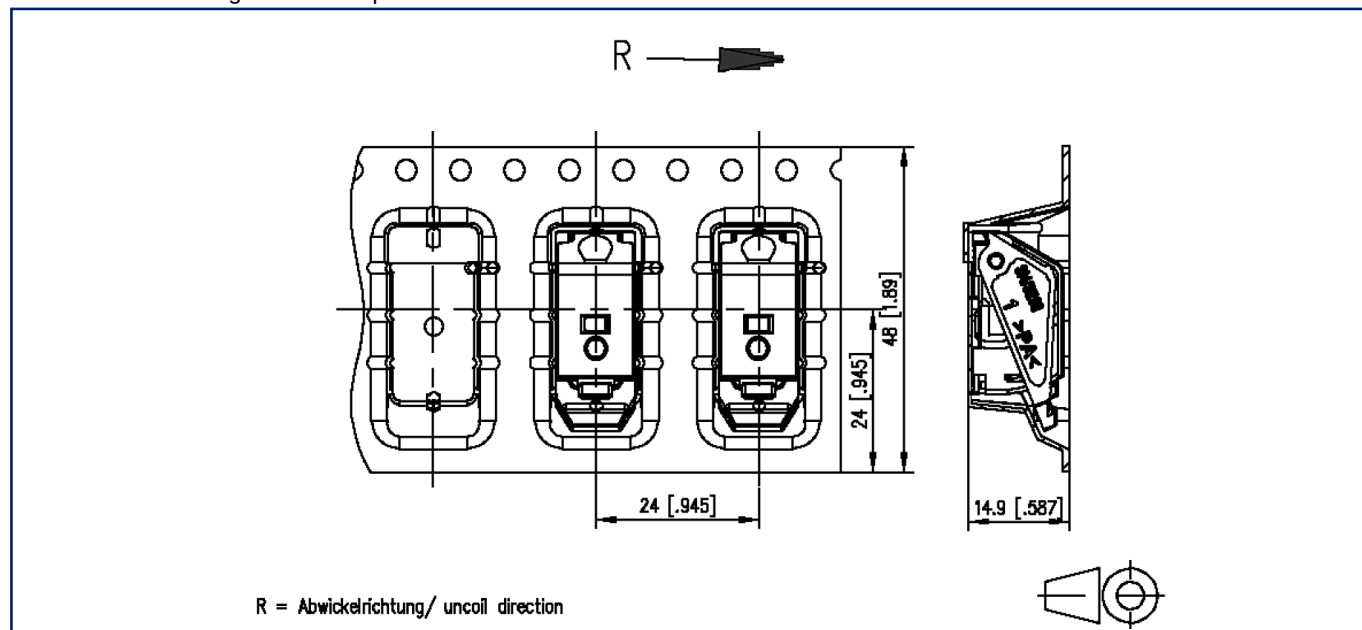
Contact surface	Sn
Glow-Wire Flammability GWFI	850 °C acc. to IEC 60695-2-12
Glow-Wire Flammability GWIT	775 °C acc. to IEC 60695-2-13
Climatic Data	
upper limit temperature	105 °C
lower limit temperature	-40 °C
general	
Tolerance	ISO 2768 -mH
Solderability	reflowable
Note PCB compensation	The PCB compensation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

Application note

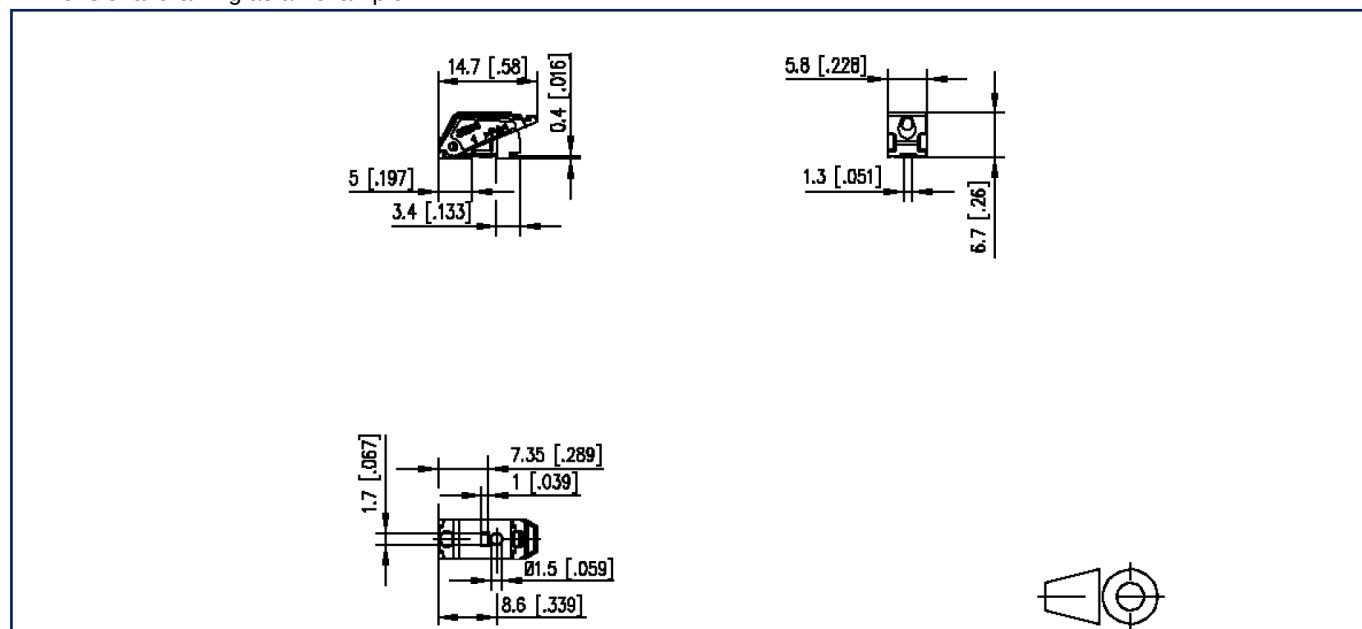
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Illustrations

Dimensional drawing as an example

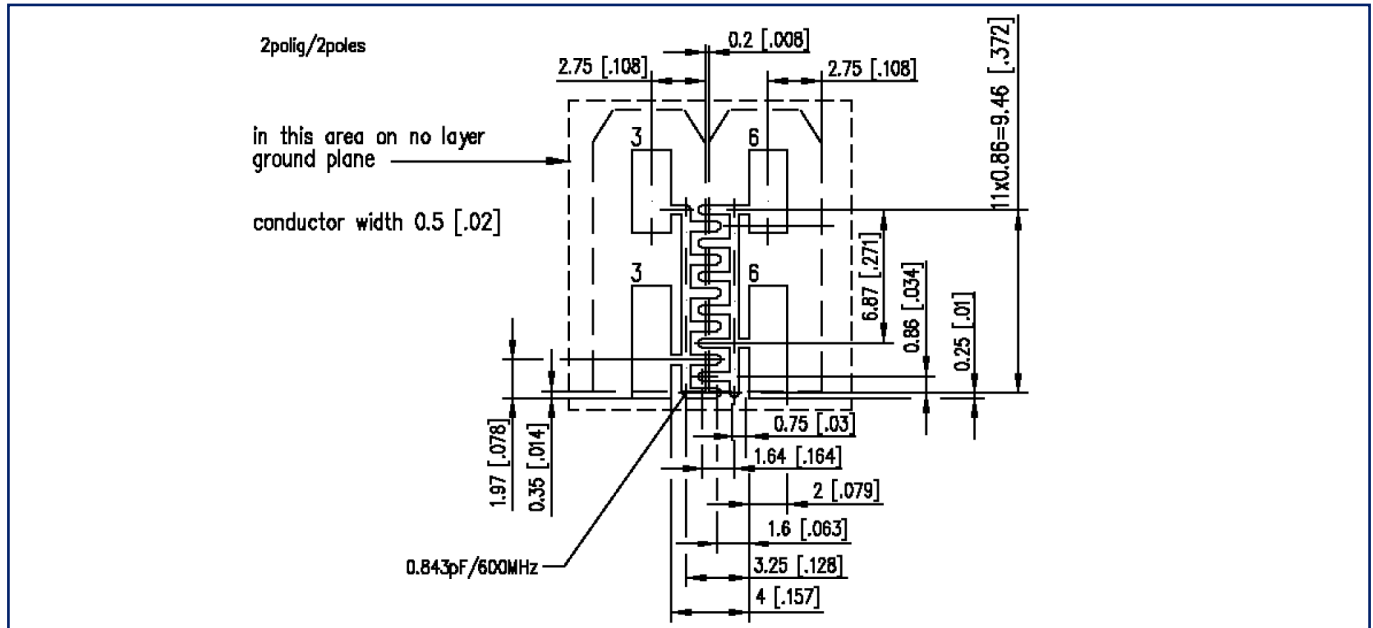


Dimensional drawing as an example



Illustrations

PCB-Layout

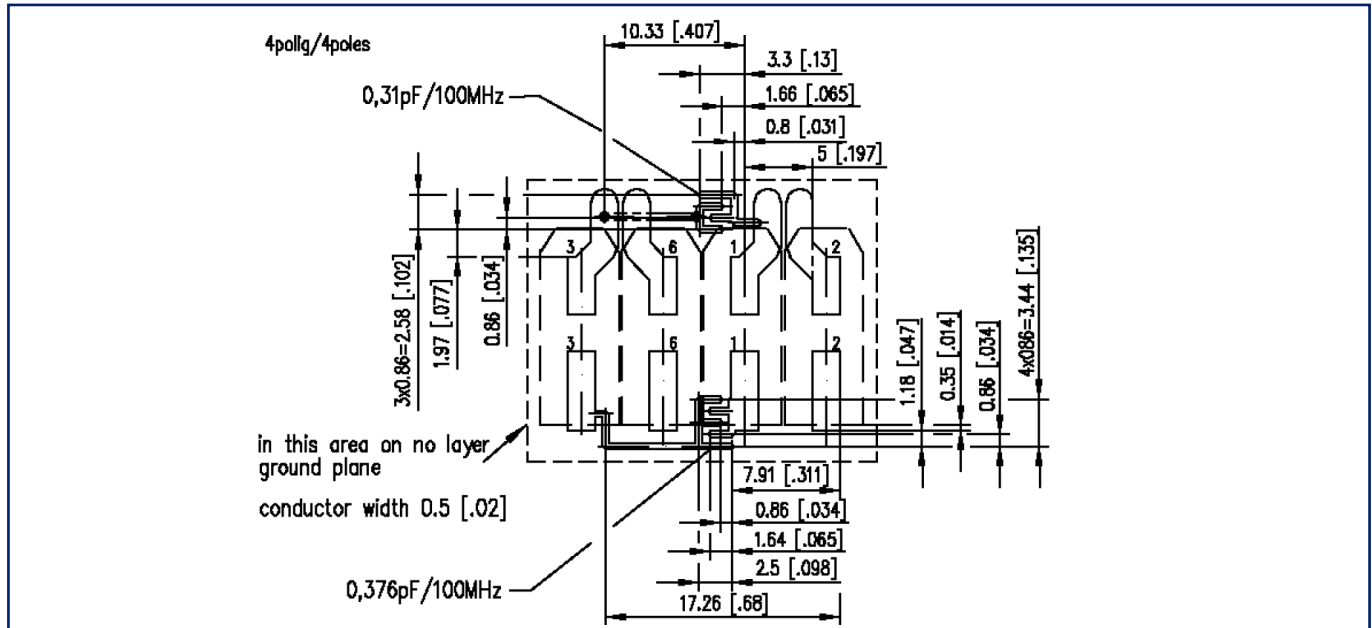


General PCB specifications

- 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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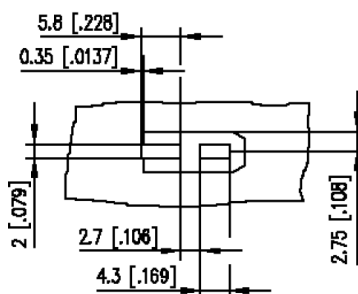
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