Data sheet

SM99S01VBNN07G7 traffic gray

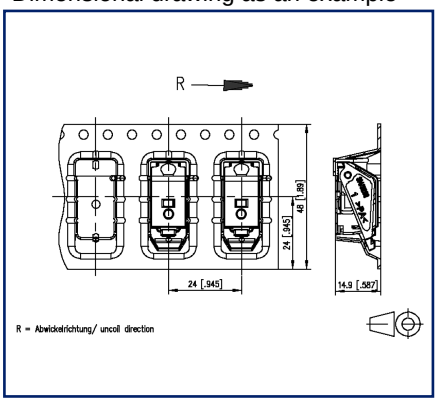
P/N
SM99S01VBNN07G7

2026/09/08
Version: V

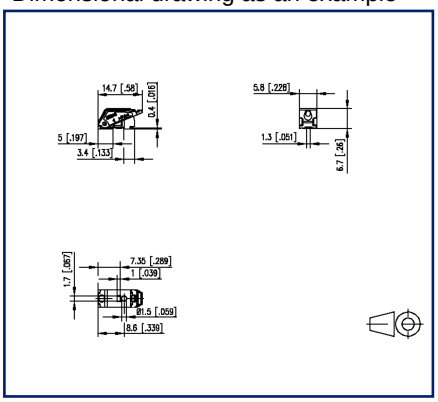
Illustrations



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 gray
- 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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Weitere Dokumentation siehe / additional documentation see / documentation supplémentaire voir www.metz-connect.com

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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 mm² - 1.5 mm² / AWG 24 - AWG 16
rat.wiring strand.AWGmax	0.2 mm² - 1.5 mm² / AWG 24 - AWG 16
Approvals	
c UL us V / A / AWG	300 / 9 / 24 - 16
approval UL - File No.	E121004
SEV	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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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

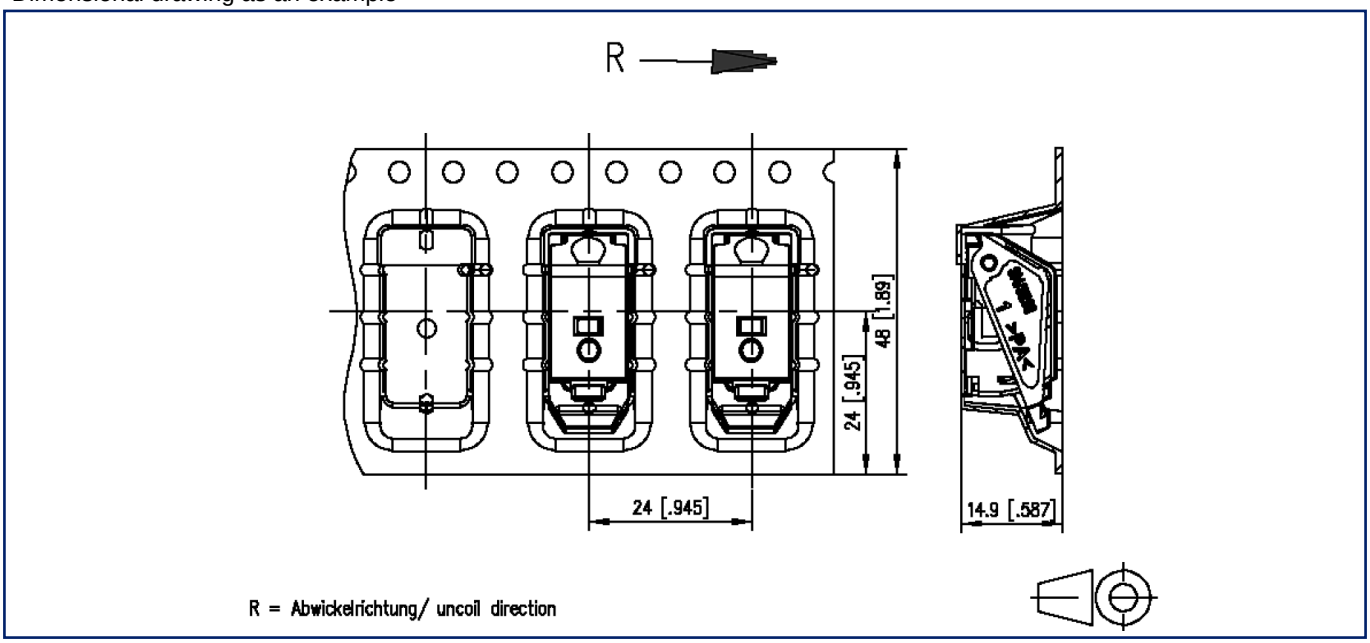
Application note

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.

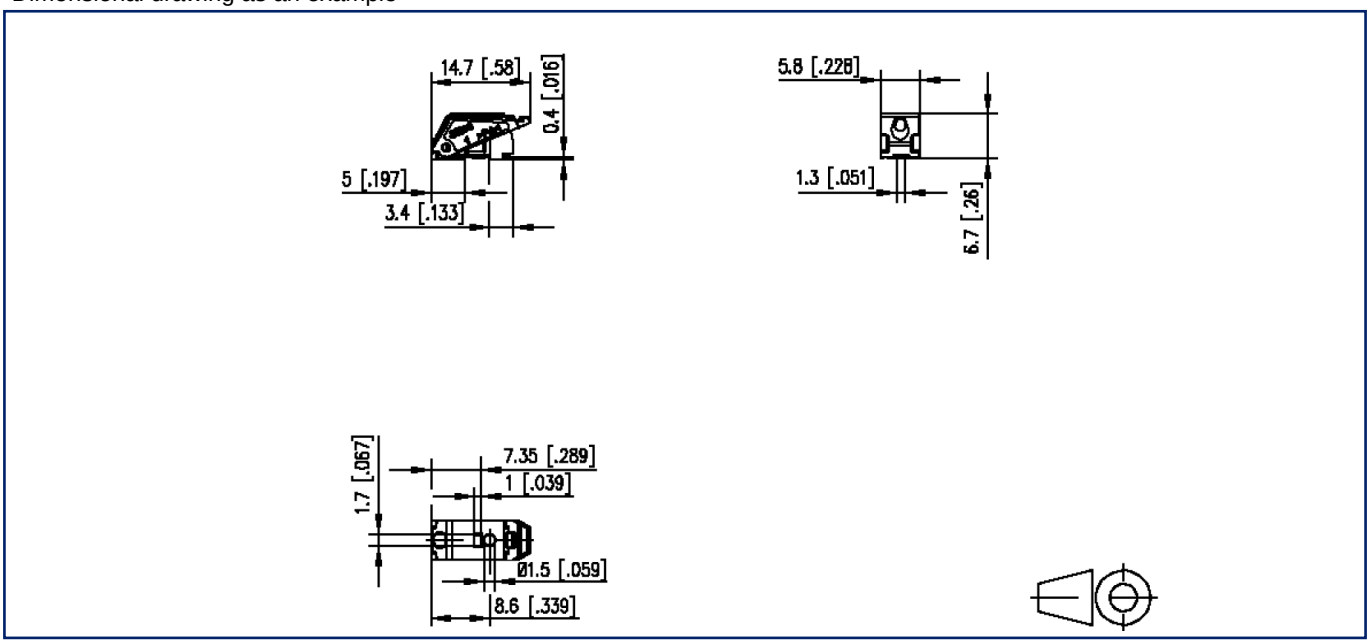
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Illustrations

Dimensional drawing as an example



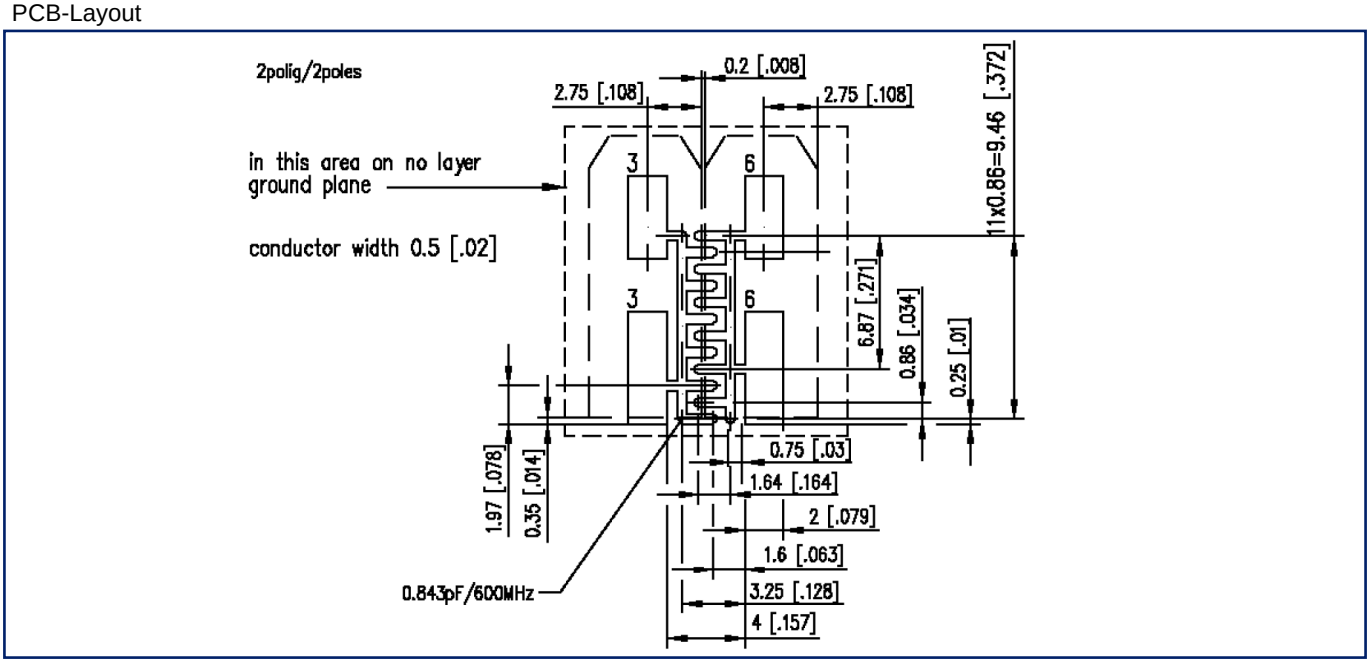
Dimensional drawing as an example



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Illustrations

PCB-Layout



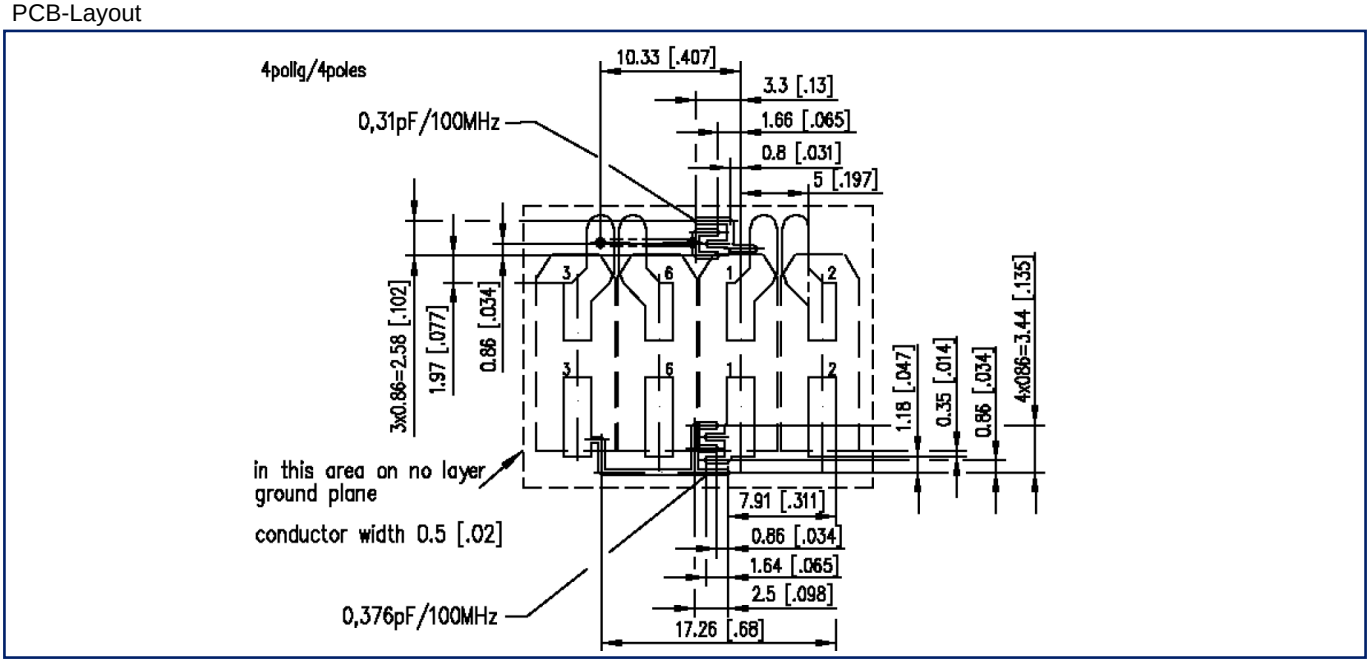
General PCB specifications

- 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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Illustrations

PCB-Layout



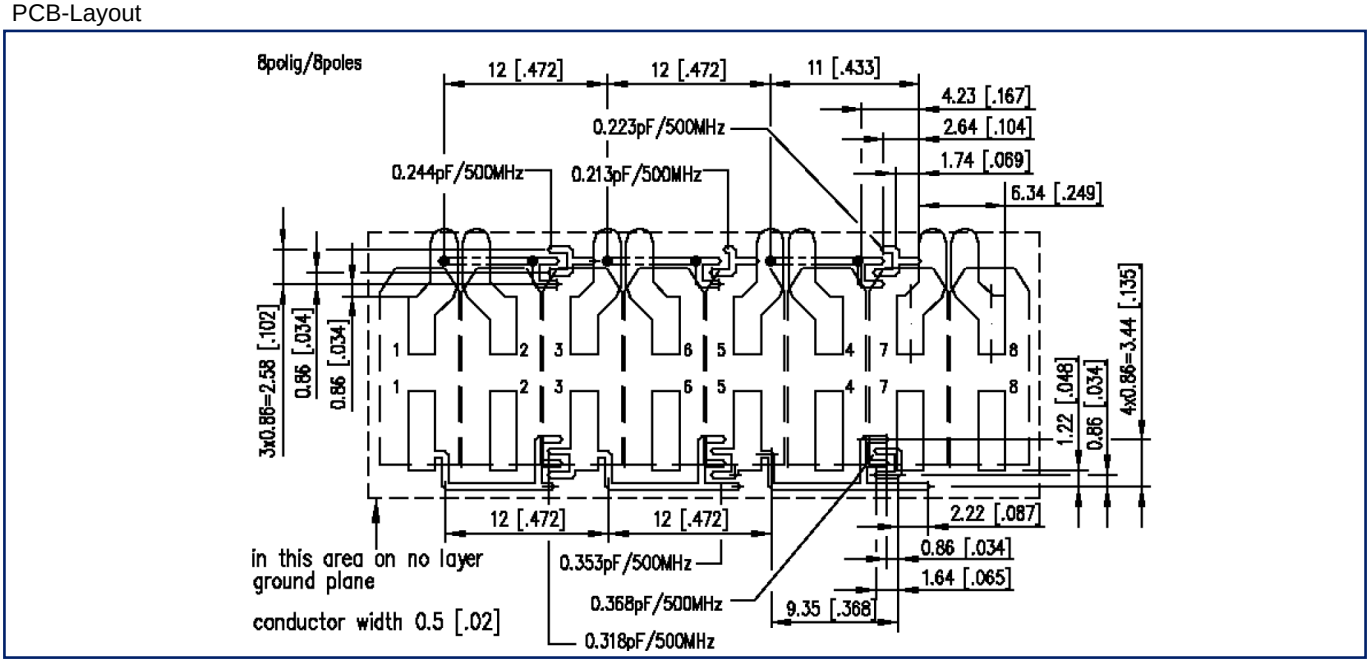
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Illustrations

PCB-Layout



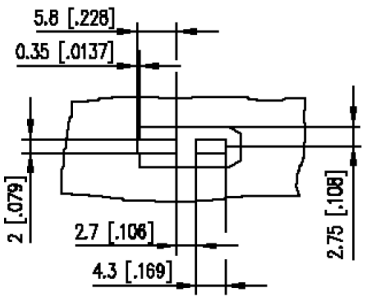
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