

Data sheet

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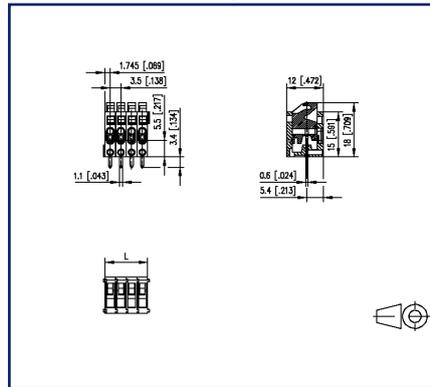
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AIT0230299-000

2025/11/03
Version: E

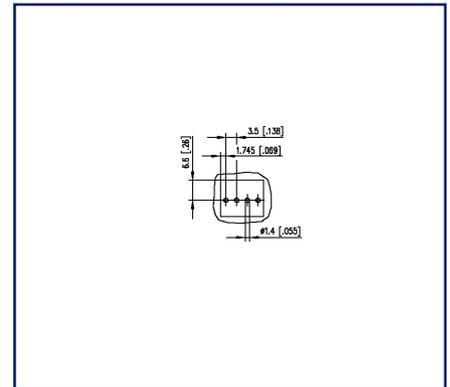
Illustrations



Dimensional drawing as an example



Drill pattern as an example



See enlarged drawings at the end of document

Product specification

- ethernet-capable insulation displacement connector, solderable
- centerline 3.50 mm, direction of connection 90°
- modular
- color coding for conductor colors according to SPE (white/blue)



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Technical Data

General Data

Solder pin length	3.5 mm		
pole size	2		
Insulating material class	CTI 600		
clearance/creepage dist.	2.3 mm		
Protection category	IP20		
wire insulation	1.8 mm		
Rated current	2.5 A		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	160 V	400 V	400 V
Rated test voltage	4 kV	4 kV	4 kV

Terminal data

rat.wiring solid AWGmax	0.2 mm ² - 0.34 mm ² / AWG 24 - AWG 22		
rat.wiring strand.AWGmax	0.2 mm ² - 0.34 mm ² / AWG 24 - AWG 22		

Approvals

 V / A / AWG	150 / 2.5 / 24 - 22		
approval UL - File No.	E121004		
	130 V / 5 A / T60		

Transmission characteristics

Data transmission according to IEEE 802.3cg	10 Mbit/s up to 1.000 m STP
Data transmission according to IEEE 802.3bp	1Gbit/s up to 15 m UTP 1Gbit/s up to 40 m STP
Power transmission	PoDL, IEEE 802.3bu 60 W

Material

insulating material	PA66
flammability class	V0
contact material	CuSn
Contact surface	Sn
Glow-Wire Flammability GWFI	850 °C acc. to IEC 60695-2-12

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Technical Data

Glow-Wire Flammability GWIT	775 °C acc. to IEC 60695-2-13
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Climatic Data

upper limit temperature	105 °C
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lower limit temperature	-40 °C
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general

Tolerance	ISO 2768 -mH
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Solderability	Acc. to JEDEC JESD22-B102E 245°C/5s
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Note PCB compensation	The PCB compensation is necessary to achieve the specified data transmission specifications
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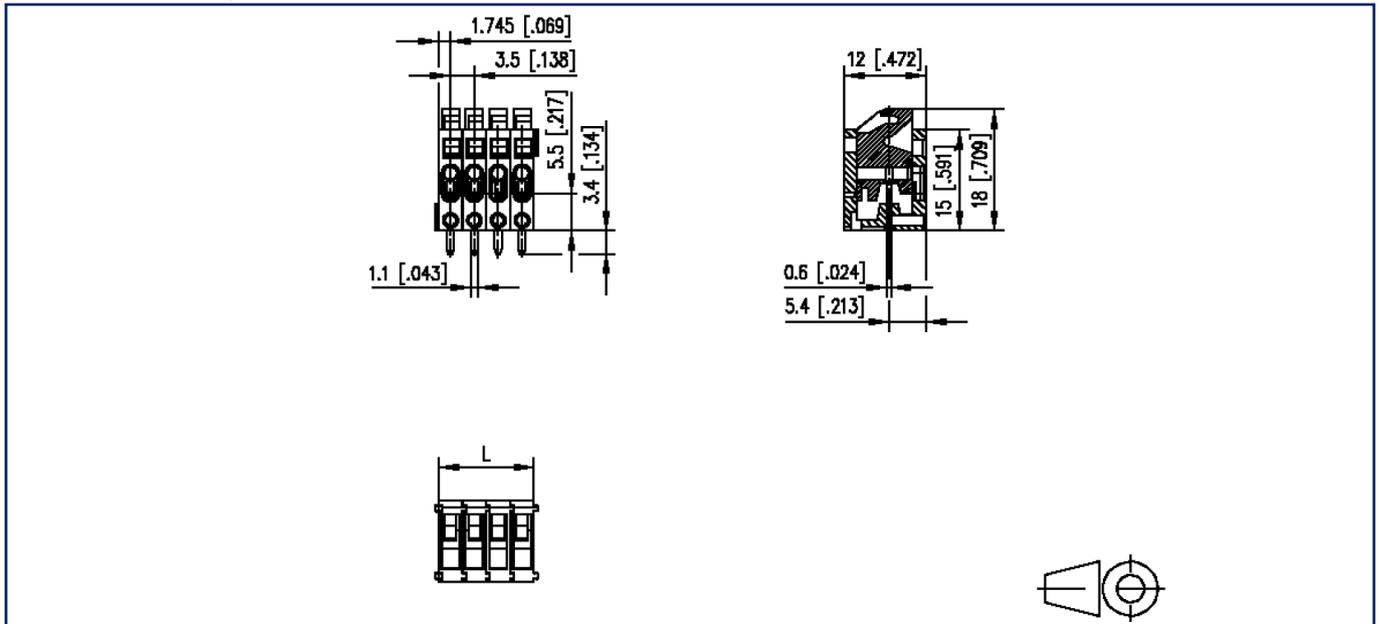
Application note

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.).



Illustrations

Dimensional drawing as an example



$L = (\text{pole size} - 1) \times \text{centerline} + 3.5 \text{ mm } [0.138]$

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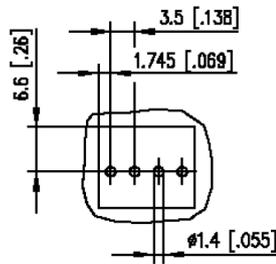
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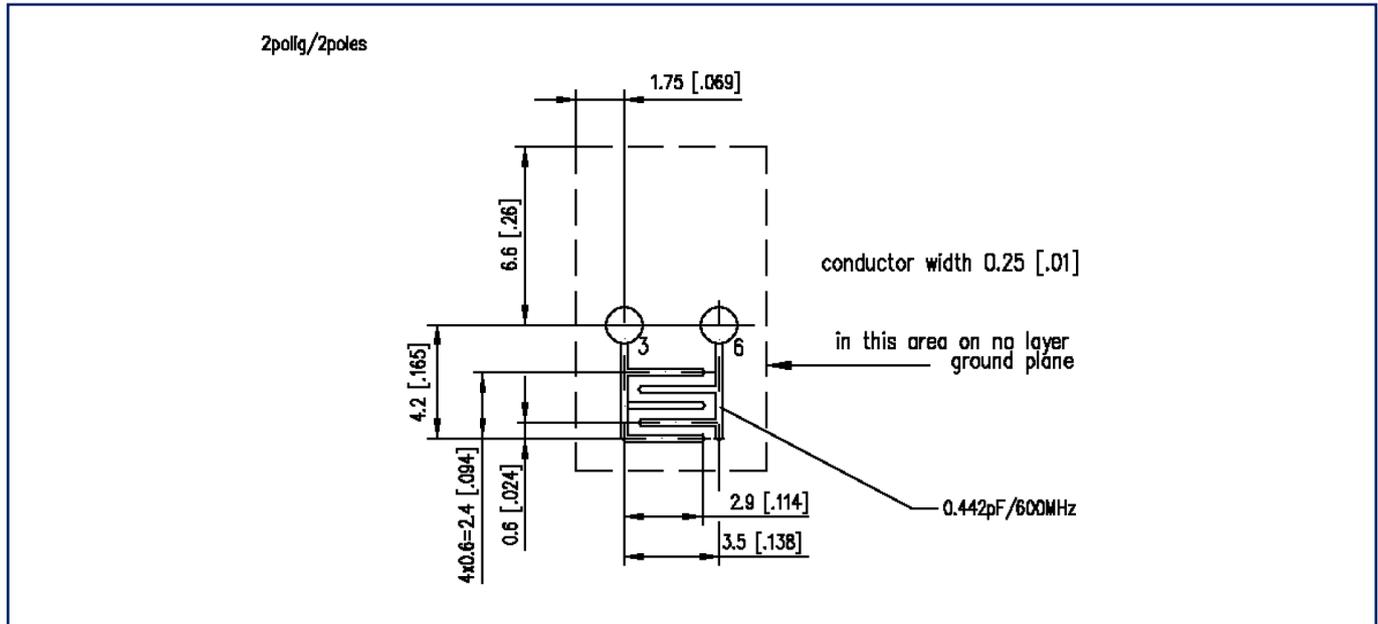
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Drill pattern as an example



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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