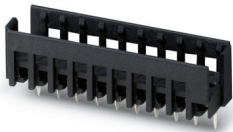


FK-MPT 0,5/12-ICVA-3,5 - PCB header



1930577
<https://www.phoenixcontact.com/us/products/1930577>

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PCB headers, nominal cross section: 0.5 mm², color: black, nominal current: 3 A, rated voltage (III/2): 250 V, contact surface: Sn, contact connection type: Socket, number of potentials: 12, number of rows: 1, number of positions: 12, number of connections: 12, product range: FK-MPT 0,5/...-ICVA, pitch: 3.5 mm, mounting: THR soldering / wave soldering, pin layout: Linear pinning, solder pin [P]: 3.6 mm, number of solder pins per potential: 1, plug-in system: COMBICON FK-MPT - IC, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard, The touch-protected basic strip, serves to accommodate the FK-MPT 0,5 PCB terminal block.

Your advantages

- Suitable for wave and reflow soldering processes
- Protection against mismatching thanks to asymmetrical arrangement of sockets
- Vertical connection enables multi-row arrangement on the PCB
- Easy PCB replacement thanks to plug-in modules

Commercial data

Item number	1930577
Packing unit	1 pc
Sales key	AA01
Product key	AAATTB
Catalog page	Page 405 (C-1-2013)
GTIN	4017918823399
Weight per piece (including packing)	2.74 g
Weight per piece (excluding packing)	2.74 g
Customs tariff number	85366930
Country of origin	DE

Technical data

Product properties

Product type	PCB headers
Product family	FK-MPT 0,5/...-ICVA
Product line	COMBICON Connectors XS
Type	Header for FK-MPT 0,5
Number of positions	12
Pitch	3.5 mm
Number of connections	12
Number of rows	1
Number of potentials	12
Mounting flange	without
Pin layout	Linear pinning
Solder pins per potential	1

Data management status

Article revision	02
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Electrical properties

Nominal current I_N	3 A
Nominal voltage U_N	250 V
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	250 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV

Mounting

Mounting type	THR soldering / wave soldering
Pin layout	Linear pinning

Material specifications

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Metal surface contact area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)

Material data - housing

Color (Housing)	black (9005)
Insulating material	PA

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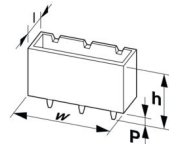


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Insulating material group	IIIa
CTI according to IEC 60112	250
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

Dimensions

Dimensional drawing	
Pitch	3.5 mm
Width [w]	44.5 mm
Height [h]	13.6 mm
Length [l]	9.1 mm
Installed height	8.8 mm
Solder pin length [P]	3.6 mm
Pin dimensions	0.3 x 0.9 mm

PCB design

Hole diameter	1.2 mm
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Electrical tests

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	IIIa
Comparative tracking index (IEC 60112)	CTI 250
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2.5 mm
Rated insulation voltage (III/2)	250 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	2.5 mm
Rated insulation voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	2.5 mm

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Environmental and real-life conditions

Ambient conditions

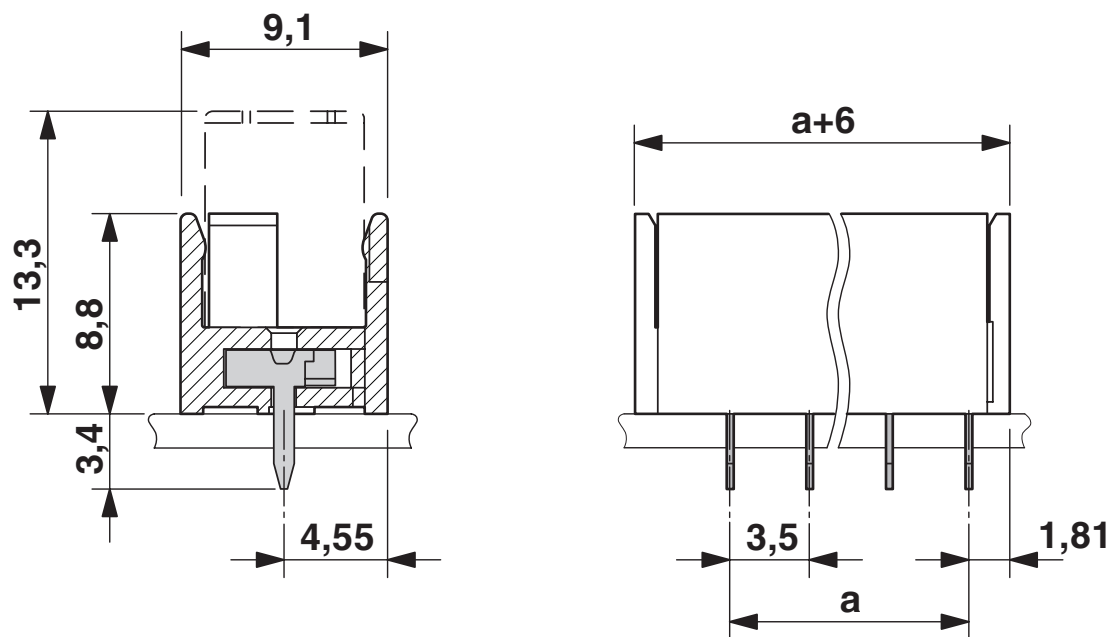
Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

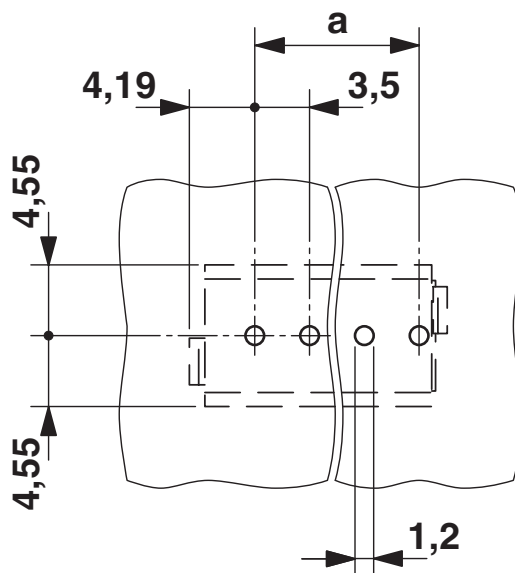
Type of packaging	packed in cardboard
Outer packaging type	Dry bag

Drawings

Dimensional drawing



Drilling plan/solder pad geometry



FK-MPT 0,5/12-ICVA-3,5 - PCB header



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1930577>

 cULus Recognized Approval ID: E60425-19991118				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	4 A	-	-
Use group D				
	300 V	4 A	-	-

Classifications

ECLASS

ECLASS-11.0	27460201
ECLASS-12.0	27460201

ETIM

ETIM 8.0	EC002637
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%