

# FK-MPT 0,5/ 8-ICA-3,5 - PCB header



1930386

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PCB headers, nominal cross section: 0.5 mm<sup>2</sup>, color: black, nominal current: 3 A, rated voltage (III/2): 250 V, contact surface: Tin, contact connection type: Socket, number of potentials: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: FK-MPT 0,5/...-ICA, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 3.4 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
- Easy PCB replacement thanks to plug-in modules

## Commercial data

Item number	1930386
Packing unit	1 pc
Minimum order quantity	50 pc
Sales key	AA01
Product key	AAATTA
Catalog page	Page 404 (C-1-2013)
GTIN	4017918823207
Weight per piece (including packing)	2.61 g
Weight per piece (excluding packing)	2.17 g
Customs tariff number	85366930
Country of origin	IN

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## Technical data

### Product properties

Type	Header for FK-MPT 0,5
Product line	COMBICON Connectors XS
Product type	PCB headers
Product family	FK-MPT 0,5/...-ICA
Number of positions	8
Pitch	3.5 mm
Number of connections	8
Number of rows	1
Mounting flange	without
Number of potentials	8
Pin layout	Linear pinning
Solder pins per potential	1

### Electrical properties

Nominal current $I_N$	3 A
Nominal voltage $U_N$	250 V
Degree of pollution	3
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
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 $\mu\text{m}$ Sn)
Metal surface soldering area (top layer)	Tin (5 - 7 $\mu\text{m}$ Sn)

#### Material data - housing

Color (Housing)	black (9005)
Insulating material	PA
Insulating material group	IIIa
CTI according to IEC 60112	250

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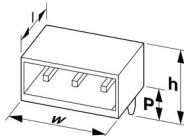


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Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

## Dimensions

Dimensional drawing	
Pitch	3.5 mm
Width [w]	27 mm
Height [h]	13.4 mm
Length [l]	8.8 mm
Installed height	10 mm
Solder pin length [P]	3.4 mm
Pin dimensions	0.3 x 0.9 mm

## 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

## 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

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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

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## Approvals

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**EAC**

Approval ID: B.01687



**cULus Recognized**

Approval ID: E60425-19991118

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B				
	300 V	4 A	-	-
Use group D				
	300 V	4 A	-	-

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## 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

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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