MC 0,5/10-G-2,5 THT - PCB header



https://www.phoenixcontact.com/in/products/1963502



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PCB headers, nominal cross section: 0.5 mm², color: black, nominal current: 4 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Pin, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MC 0,5/..-G-THT, pitch: 2. 5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 3.8 mm, number of solder pins per potential: 1, plug-in system: COMBICON FK-MC 0,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard, For user information and design recommendations for through-hole reflow technology, go to: Downloads

Your advantages

· Designed for integration into the SMT soldering process

Commercial Data

Item number	1963502
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	AAA
Product Key	AAATGA
Catalog Page	Page 170 (C-1-2013)
GTIN	4017918912321
Weight per Piece (including packing)	3.9 g
Weight per Piece (excluding packing)	3.16 g
Customs tariff number	85366930
Country of origin	DE

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Technical Data

Product properties

Туре	Component suitable for through hole reflow
Product line	COMBICON Connectors XS
Product type	PCB headers
Product family	MC 0,5/G-THT
Number of positions	10
Pitch	2.5 mm
Number of connections	10
Number of rows	1
Mounting flange	without
Number of potentials	10
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	4 A
Nominal voltage U _N	160 V
Degree of pollution	3
Contact resistance	2 mΩ
Rated voltage (III/3)	32 V
Rated surge voltage (III/3)	1.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	160 V
Rated surge voltage (II/2)	1.5 kV

Mounting

Mounting type	THR soldering
Pin layout	Linear pinning
Processing notes	

Process	Reflow/wave soldering
Moisture Sensitive Level	MSL 3
Classification temperature T _c	245 °C
Solder cycles in the reflow	3

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
Surface characteristics	Tin-plated

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Metal surface contact area (top layer)	Tin (3 - 5 μm Sn)
Metal surface contact area (middle layer)	Nickel (1 - 3 μm Ni)
Metal surface soldering area (top layer)	Tin (3 - 5 μm Sn)
Metal surface soldering area (middle layer)	Nickel (1 - 3 μm Ni)
Material data - housing	
Color (Housing)	black (9005)

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Insulating material	PA
Insulating material group	Illa
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	P P
Pitch	2.5 mm
Width [w]	26.9 mm
Height [h]	11.9 mm
Length [I]	10.1 mm
Installed height	8.1 mm
Solder pin length [P]	3.8 mm
Pin dimensions	0.8 x 0.8 mm

Mechanical tests

Test for conductor damage and slackening

rest for conductor damage and stackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Repeated connection and disconnection	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N
	$0.2 \text{ mm}^2 / \text{flexible} / > 10 \text{ N}$

 0.2 mm^2 / flexible / > 10 N $0.5 \text{ mm}^2 / \text{solid} / > 20 \text{ N}$