

MSTBO 2,5/ 3 G1R THR BK AU CR3 - PCB header



2201554

<https://www.phoenixcontact.com/us/products/2201554>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB headers, color: black, contact surface: Au, contact connection type: Pin, number of rows: 1, number of positions: 3, product range: MSTBO 2,5/..-G1R THR Au, pitch: 5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.5 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Orthogonal, locking: without, type of packaging: 44 mm wide tape, Fixed coding of the position: 3, item with lateral pin outlet on the right

Your advantages

- Versions available for wave and THR soldering process
- High mechanical strength and resistance to corrosion
- Contact resistance with long-term stability for continuous use

Commercial data

Item number	2201554
Packing unit	50 pc
Minimum order quantity	5,000 pc
Note	Made to order (non-returnable)
Product key	ACHADB
GTIN	4046356864213
Weight per piece (including packing)	2.476 g
Weight per piece (excluding packing)	2.476 g
Country of origin	PL

MSTBO 2,5/ 3 G1R THR BK AU CR3 - PCB header



2201554

<https://www.phoenixcontact.com/us/products/2201554>

Technical data

Product properties

Product type	PCB headers
Product family	MSTBO 2,5/..-G1R THR Au
Type	Header perpendicular to the PCB
Number of positions	3
Pitch	5 mm
Number of rows	1
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Properties

Contact resistance	1.61 mΩ
--------------------	---------

Mounting

Mounting type	THR soldering
Pin layout	Linear pinning

Material specifications

Material data - contact

Metal surface contact area (top layer)	Gold (Au)
--	-----------

Material data - housing

Color (Housing)	black (9005)
-----------------	--------------

Dimensions

Pitch	5 mm
Width [w]	14.95 mm
Height [h]	16.5 mm
Length [l]	15.35 mm
Solder pin length [P]	2.5 mm
Pin dimensions	1 x 1 mm

PCB design

Hole diameter	1.5 mm
---------------	--------

Mechanical tests

Visual inspection

Specification	IEC 60512-1-1:2002-02
Result	Test passed

Dimension check

MSTBO 2,5/ 3 G1R THR BK AU CR3 - PCB header



2201554

<https://www.phoenixcontact.com/us/products/2201554>

Specification	IEC 60512-1-2:2002-02
Result	Test passed

Resistance of inscriptions

Specification	IEC 60068-2-70:1995-12
Result	Test passed

Polarization and coding

Specification	IEC 60512-13-5:2006-02
Result	Test passed

Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	7 N
Withdraw strength per pos. approx.	6 N

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	4

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	$10^{12} \Omega$

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 500 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz ... 60.1 Hz)
Acceleration	5g (60.1 Hz ... 150 Hz)
Test duration per axis	2 h
Test directions	X-, Y- and Z-axis

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R_1	1.61 m Ω
Contact resistance R_2	1.62 m Ω

MSTBO 2,5/ 3 G1R THR BK AU CR3 - PCB header



2201554

<https://www.phoenixcontact.com/us/products/2201554>

Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	$>10^{12} \Omega$

Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	KFW 0.2 S/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	2.25 kV

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 55 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

Type of packaging	44 mm wide tape
[W] tape width	44 mm
Outer packaging type	Transparent-Bag

MSTBO 2,5/ 3 G1R THR BK AU CR3 - PCB header



2201554

<https://www.phoenixcontact.com/us/products/2201554>

Classifications

ECLASS

ECLASS-13.0	27460201
-------------	----------

ETIM

ETIM 9.0	EC002637
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

MSTBO 2,5/ 3 G1R THR BK AU CR3 - PCB header



2201554

<https://www.phoenixcontact.com/us/products/2201554>

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%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com