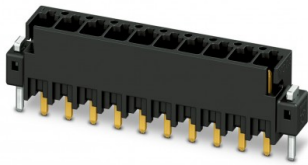


INDUSTRIAL COMPONENT DATA

MCV 0,5/12-G-2,54 P20 THR R56 1821494 PHOENIX CONTACT

Printed-circuit board connector

Brand: PHOENIX CONTACT | Manufacturer Part Number: MCV 0,5/12-G-2,54 P20 THR R56



Manufacturer	PHOENIX CONTACT
MPN / Reference	MCV 0,5/12-G-2,54 P20 THR R56
Catalog number	1821494
Category	Printed circuit board connector
Minimum order	315 Pcs
Document ID	EO-A86933F18A
Generated	2026-08-05

Product Overview

Printed-circuit board connector

Printed circuit board base housing, nominal section: 0.5 mm², color: black, nominal current: 6 A, nominal voltage (III/2): 160 V, contact surface: Gold, contact type: Male, number of potentials: 12, number of rows: 1, number of poles: 12, number of connections: 12, article family: MCV 0.5/.. -G-THR, pitch: 2.54 mm, mounting: Solder THR, pin arrangement: Linear pin arrangement, pin length [P]: 2 mm, number of solder pins per potential: 1, plug-in system: COMBICON FMC 0.5, Plug-in face orientation: Standard, lock: without, fixing type: without, packaging type: 56 mm wide strap, Sample quantities available under SAMPLE MC...

PCB headers, nominal cross section: 0.5 mm², color: black, nominal current: 6 A, rated voltage (III/2): 160 V, contact surface: Au, contact connection type: Pin, number of potentials: 12, number of rows: 1, number of positions: 12, number of connections: 12, product range: MCV 0,5/..-G-THR, pitch: 2.54 mm, mounting: THR soldering / wave soldering, pin layout: Linear pinning, solder pin [P]: 2 mm, number of solder pins per potential: 1, plug-in system: COMBICON FMC 0,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: 56 mm wide tape, Sample values available under SAMPLE MC...

STRUCTURED PRODUCT DATA

Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

Classification & Catalog Path

Catalog path	PHOENIX CONTACT > PCB Connectors (PCC)
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Additional Product Information

Technical dataProduct propertiesProduct type PCB headers

Product family MCV 0,5/..-G-THR

Product line COMBICON Connectors XS

Type Component suitable for through hole reflow

Number of positions 12

Pitch 2.54 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 00

Electrical propertiesNominal current IN 6 A

Nominal voltage UN 160 V

Contact resistance 2.5 mΩ

Rated voltage (III/3) 32 V

Rated surge voltage (III/3) 2.5 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) 2.5 kV

MountingMounting type THR soldering / wave soldering

Pin layout Linear pinning

Processing notes

Process Reflow/wave soldering

Moisture Sensitive Level MSL 1

Classification temperature Tc 260 °C

Solder cycles in the reflow 3

Material specificationsMaterial data - contact

Note WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201

Contact material Cu alloy

Surface characteristics Completely gold-plated

Metal surface contact area (top layer) Gold (0.25 Au)

Metal surface contact area (middle layer) Nickel (2 - 4 μm Ni)

Metal surface soldering area (top layer) Gold (0.25 Au)

Metal surface soldering area (middle layer) Nickel (2 - 4 μm Ni)

Material data - housing

Color (Housing) black (9005)

Insulating material LCP

Insulating material group IIIa

CTI according to IEC 60112 175

Flammability r...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / MCV 0,5/12-G-2,54 P20 THR R56 with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

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