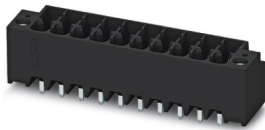


PCB headers - DMCV 1,5/20-G1F-3,5-LR P26THRR - 1715097

<https://www.phoenixcontact.com/in/products/1715097>

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PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Male connector, Number of potentials: 40, Number of rows: 2, Number of positions per row: 20, number of connections: 40, product range: DMCV 1,5/..-G1F-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 26 mm, Stecksystem: MINI COMBICON - DFMC 1,5, Locking: Snap-in locking, type of packaging: 104 mm wide tape

Your advantages

- Designed for integration into the SMT soldering process
- Vertical connection enables multi-row arrangement on the PCB
- Screwable flange for superior mechanical stability
- Automatic locking and intuitive release through Lock and Release operating lever in contrasting color
- Small component size for applications where space is at a premium

PCB headers - DMCV 1,5/20-G1F-3,5- LR P26THRR - 1715097



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Commercial Data

Order Key	1715097
Packing unit	180 pc
Minimum order quantity	180 pc
Note	Made to Order (non-returnable)
GTIN	4055626405360
Weight per Piece (including packing)	12.3 GRM
Weight per Piece (excluding packing)	2.2 GRM
Customs tariff number	85366930

PCB headers - DMCV 1,5/20-G1F-3,5-LR P26THRR - 1715097

<https://www.phoenixcontact.com/in/products/1715097>

Technical Data

Mounting

Mounting type	
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Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	20

Electrical properties

Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Contact resistance	2.1 mΩ
Pollution degree	2

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	IIIa
Comparative tracking index (IEC 60112:2003-01)	CTI 175
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)	160 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)	1.6 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

Temperature cycles

Specification	IEC 60999-1:1999-11
Result	Test passed

Electrical properties

Rated voltage (III/2)	160 V
Nominal current I_N	8 A
Contact resistance	2.4 mΩ
Insulation resistance	> 10 TΩ, (IEC 60512-3-1:2002-02)
Nominal current I_N	8 A

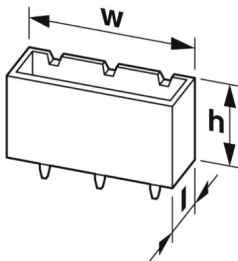
PCB headers - DMCV 1,5/20-G1F-3,5-LR P26THRR - 1715097

<https://www.phoenixcontact.com/in/products/1715097>

Packaging specifications

Dimensional drawing	
Type of packaging	104 mm wide tape
[W] tape width	104 mm
[W2] coil overall dimension	110.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive

Dimensions

Dimensional drawing	
Width	77 mm
Height	12 mm
Installed height	10 mm
Length of the solder pin	26 mm
Length	10.6 mm
Length of the solder pin	26 mm
Pin dimensions	0.8 x 0.8 mm
Hole diameter	1.4 mm
Pitch	3.5 mm

PCB design

Pin spacing	5.50 mm
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Environmental and durability tests

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R_1	2.1 mΩ
Contact resistance R_2	2.4 mΩ
Insertion/withdrawal cycles	25

Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h

PCB headers - DMCV 1,5/20-G1F-3,5-LR P26THRR - 1715097

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Power-frequency withstand voltage	1.39 kV
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Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Sweep speed	5 g (60.1 - 150 Hz)
Test duration per axis	2.5 h

Ambient conditions

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

Mechanical tests

Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Result	Test passed
Test force per pos.	30 N

Repeated connection and disconnection

Specification	IEC 60999-1:1999-11
Result	Test passed

Polarization and coding

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

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	3 N
Withdraw strength per pos. approx.	2 N

Test for conductor damage and slackening

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 mm ² / solid / > 10 N
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm ² / flexible / > 10 N
Conductor cross section/conductor type/tractive force setpoint/actual value	1.5 mm ² / solid / > 40 N

PCB headers - DMCV 1,5/20-G1F-3,5-LR P26THRR - 1715097



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Conductor cross section/conductor type/tractive force setpoint/actual value	1.5 mm ² / flexible / > 40 N
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Visual inspection

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

Resistance of inscriptions

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

Dimension check

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

Notes

Environmental Product Compliance

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

Material specifications

Material data - housing

Housing color	black (9005)
Insulating material	LCP
Insulating material group	IIIa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

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
Metal surface contact area (top layer)	Tin (3 - 5 µm Sn)
Metal surface contact area (middle layer)	Nickel (1.3 - 3 µm Ni),
Metal surface soldering area (top layer)	Tin (3 - 5 µm Sn)
Metal surface soldering area (middle layer)	Nickel (1.3 - 3 µm Ni)

Product properties

Number of positions	20
Number of connections	40
Number of levels	2
Plug-in system	MINI COMBICON - DFMC 1,5
Number of potentials	40
Pin layout	Linear pinning

PCB headers - DMCV 1,5/20-G1F-3,5-LR P26THRR - 1715097



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Approvals

IECEE CB Scheme

Nominal voltage U_N	160 V
Nominal current I_N	8 A

VDE Gutachten mit Fertigungsüberwachung

Nominal voltage U_N	160 V
Nominal current I_N	8 A

EAC

cULus Recognized

Usegroup	B	C	D
Nominal voltage U_N	300 V	50 V	300 V
Nominal current I_N	8 A	8 A	8 A

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