

# PCB headers - DMC 1,5/14-G1F-3,5- LRP26AUTHRR - 1715229

<https://www.phoenixcontact.com/in/products/1715229>

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PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Gold, type of contact: Male connector, Number of potentials: 28, Number of rows: 2, Number of positions per row: 14, number of connections: 28, product range: DMC 1,5/..-G1F-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, Stecksystem: MINI COMBICON - DFMC 1,5, Locking: Snap-in locking, type of packaging: packed in cardboard

## Your advantages

- Gold-plated contacts ensure transfer quality remains stable over the long term
- Designed for integration into the SMT soldering process
- Screwable flange for superior mechanical stability
- Automatic locking and intuitive release through Lock and Release operating lever in contrasting color
- Conductor connection on several levels enables higher contact density

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## Commercial Data

Order Key	1715229
Packing unit	180 pc
Minimum order quantity	180 pc
Note	Made to Order (non-returnable)
GTIN	4055626517834
Weight per Piece (including packing)	11.0 GRM
Weight per Piece (excluding packing)	11.0 GRM
Customs tariff number	85366930

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## Technical Data

### Mounting

Mounting type	
Processing notes	
Process	Reflow/wave soldering
Specification	
Specification	
Specification	
Moisture Sensitive Level	MSL 1
Classification temperature T <sub>c</sub>	260 °C
Solder cycles in the reflow	3

### Electrical tests

#### Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	9

#### Electrical properties

Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
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

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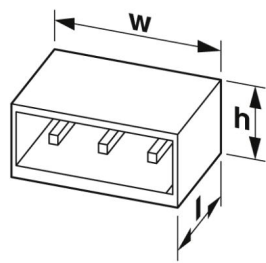
## Electrical properties

Insulation resistance	> 2 TΩ, (IEC 60512-3-1:2002-02)
Nominal current $I_N$	8 A

## Packaging specifications

Type of packaging	packed in cardboard
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## Dimensions

Dimensional drawing	
Width	56 mm
Height	13.4 mm
Installed height	10.8 mm
Length of the solder pin	2.6 mm
Length	11.6 mm
Length of the solder pin	2.6 mm
Pin dimensions	0.8 x 0.8 mm
Hole diameter	1.4 mm
Pitch	3.5 mm

## PCB design

Pin spacing	2.50 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 $R_2$ 1st level	1.8 mΩ
Contact resistance $R_2$ 2nd level	1.9 mΩ
Insertion/withdrawal cycles	100
Insulation resistance, neighboring positions	> 8 TΩ

### Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	1.0 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	1.39 kV

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## Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 500 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Sweep speed	5g (60.1 - 500 Hz)
Test duration per axis	2 h

## Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °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.	20 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	100
Insertion strength per pos. approx.	2.6 N
Withdraw strength per pos. approx.	1.4 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	0.14 mm <sup>2</sup> / solid / > 10 N
Conductor cross section/conductor type/tractive force setpoint/actual value	0.14 mm <sup>2</sup> / flexible / > 10 N
Conductor cross section/conductor type/tractive force setpoint/actual value	1.5 mm <sup>2</sup> / solid / > 40 N

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

## Material specifications

### Material data - housing

Housing color	black (9005)
Insulating material	LCP GF
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	partially gold-plated
Metal surface contact area (top layer)	Gold (0.8 Au)
Metal surface contact area (middle layer)	Nickel (2 - 3 µm Ni),
Metal surface soldering area (top layer)	Tin (3 - 5 µm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

## Product properties


Number of positions	14
Number of connections	28
Number of levels	2
Plug-in system	MINI COMBICON - DFMC 1,5
Number of potentials	28
Pin layout	Linear pinning

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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 $U_N$	150 V	50 V	300 V
Nominal current $I_N$	8 A	8 A	8 A

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PHOENIX CONTACT (I) Pvt. Ltd.  
A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.11.30262800  
[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)

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