

## Feed-through header - MCO 1,5/ 5-G1L-3,5 KMGY - 2278380

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



PCB headers, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, color: light gray, contact surface: Tin, mounting: Soldering, pin layout: Linear pinning, solder pin [P]: 2 mm, Article with lateral pin exit

### Your advantages

- ✓ Headers for ME and ME MAX electronics housing
- ✓ Pitch: 3.5 mm
- ✓ Plug-in direction orthogonal to the PCB



### Key Commercial Data

Packing unit	50 pc
GTIN	
GTIN	4046356293006

### Technical data

#### Item properties

Brief article description	Feed-through header
Type of contact	Male connector
Range of articles	MCO 1,5/...-G1
Pitch	3.5 mm
Number of positions	5
Mounting type	Soldering
Pin layout	Linear pinning
Locking	without
Number of levels	1

#### Electrical parameters

Nominal current	8 A
Nom. voltage	300 V
Rated voltage	160 V

## Feed-through header - MCO 1,5/ 5-G1L-3,5 KMGY - 2278380

### Technical data

#### Electrical parameters

Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV

#### Material data - housing

Housing color	light gray (7035)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
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 for the product

Length [ l ]	14.55 mm
Width [ w ]	19.95 mm
Pitch	3.5 mm
Solder pin [P]	2 mm
Pin dimensions	0.8 x 0.8 mm

#### Dimensions for PCB design

Hole diameter	1.2 mm
---------------	--------

#### Packaging information

Pieces per package	50
Denomination packing units	Pcs.

#### Termination and connection method

Test for conductor damage and slackening	IEC 60999-1:1999-11
	Test passed

#### Pull-out test

Pull-out test	IEC 60999-1:1999-11
	Test passed
Conductor cross section / conductor type / tensile force	0.14 mm <sup>2</sup> / solid / > 10 N
	0.14 mm <sup>2</sup> / flexible / > 10 N
	1.5 mm <sup>2</sup> / solid / > 40 N
	1.5 mm <sup>2</sup> / flexible / > 40 N

#### Mechanical tests according to standard

Test specification	IEC 61984
Visual inspection	IEC 60512-1-1:2002-02

# Feed-through header - MCO 1,5/ 5-G1L-3,5 KMGY - 2278380

## Technical data

### Mechanical tests according to standard

Dimension check	IEC 60512-1-2:2002-02
Resistance of inscriptions	IEC 60068-2-70:1995-12
Insertion and withdrawal force	IEC 60512-13-2:2006-02
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	4 N
Polarization and coding	IEC 60512-13-5:2006-02
Contact holder in insert	IEC 60512-15-1:2008-05
Test force per pos.	23 N

### Current carrying capacity / derating curves

Caption	Type: MC 1,5/...-ST-3,5 with MCO 1,5/...-G1L(R)-3,5 KMGY
Specification	IEC 61984:2008-10
Reduction factor	0.8
Note	Representation based on IEC 60512-5-2:2002-02
	For number of positions, see diagram

### Mechanical tests (A)

Test specification	IEC 61984
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	4 N
Polarization when inserted requirement >20 N	Test passed
Contact holder in insert requirements >20 N	Test passed

### Durability tests (B)

Specification	IEC 60512-9-1:2010-03
Contact resistance R <sub>1</sub>	1.6 mΩ
Insertion/withdrawal cycles	25
Contact resistance R <sub>2</sub>	1.6 mΩ
Impulse withstand voltage at sea level	2.95 kV
Power-frequency withstand voltage	1.39 kV
Insulation resistance, neighboring positions	> 54 GΩ

### Thermal tests (C)

Specification	IEC 60512-5-1:2002-02
Number of positions	5
Conductor cross section	1.5 mm <sup>2</sup>
Test current	8 A
Upper limiting temperature requirements <100 °C	Test passed

### Climatic tests (D)

Specification	ISO 6988:1985-02
Cold stress	-40 °C/2 h

## Feed-through header - MCO 1,5/ 5-G1L-3,5 KMGY - 2278380

### Technical data

#### Climatic tests (D)

Thermal stress	105 °C/168 h
Corrosive stress	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Impulse withstand voltage at sea level	2.95 kV
Power-frequency withstand voltage	1.39 kV

#### Environmental and durability tests (E)

Specification	IEC 61984:2008-10
Result, degree of protection, IP code	No contact safety (IP00) in acc. with IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08

#### Standards and Regulations

Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

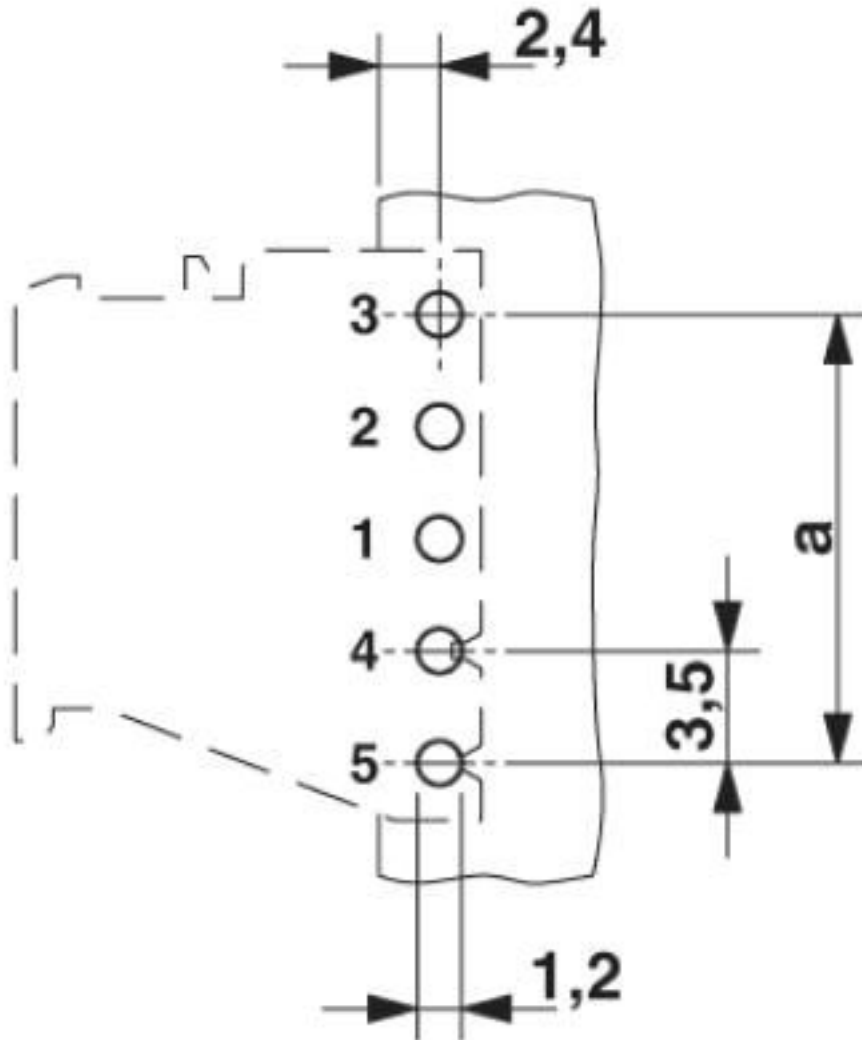
#### Environmental Product Compliance

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

### Drawings

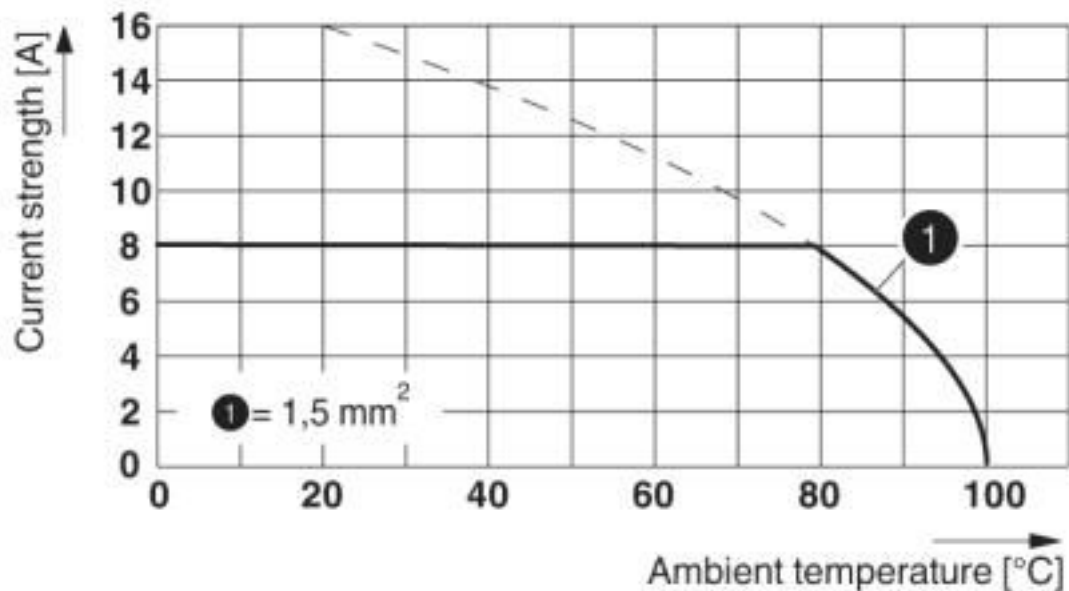
# Feed-through header - MCO 1,5/ 5-G1L-3,5 KMGY - 2278380

Drilling diagram



# Feed-through header - MCO 1,5/ 5-G1L-3,5 KMGY - 2278380

Diagram



Derating curve for: MC 1,5/...-ST-3,5 with MCO 1,5/...-G1L(R)-3,5 KMGY

## Classifications

eCl@ss

eCl@ss 10.0.1	27440402
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440402
eCl@ss 8.0	27440402
eCl@ss 9.0	27440402

ETIM

ETIM 2.0	EC001031
ETIM 3.0	EC001031
ETIM 4.0	EC002637
ETIM 5.0	EC002637
ETIM 6.0	EC002637
ETIM 7.0	EC002637

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501

# Feed-through header - MCO 1,5/ 5-G1L-3,5 KMGY - 2278380

## Classifications

### UNSPSC

UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	39121409
UNSPSC 18.0	39121409
UNSPSC 19.0	39121409
UNSPSC 20.0	39121409
UNSPSC 21.0	39121409

## Approvals

### Approvals

Approvals

EAC / cULus Recognized

Ex Approvals

### Approval details

EAC		B.01687
-----	--	---------

cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E60425-20050718
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	8 A	8 A	

## Accessories

Accessories

Coding element

Coding profile - CP-MSTB - 1734634

Coding profile, is inserted into the slot on the plug or inverted header, red insulating material



# Feed-through header - MCO 1,5/ 5-G1L-3,5 KMGY - 2278380

## Accessories

---

### Necessary add-on products

Printed-circuit board connector - MC 1,5/ 5-ST-3,5 GY7035 - 1769087



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, color: light gray, contact surface: Tin

---

Printed-circuit board connector - FMC 1,5/ 5-ST-3,5 GY7035 - 1773581



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, connection method: Push-in spring connection, color: light gray, contact surface: Tin

---

Printed-circuit board connector - FK-MCP 1,5/ 5-ST-3,5 GY7035 - 1773604



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, connection method: Push-in spring connection, color: light gray, contact surface: Tin

---

### Additional products

Printed-circuit board connector - MC 1,5/ 5-ST-3,5 GY7035 - 1769087



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, color: light gray, contact surface: Tin

---

Printed-circuit board connector - TFMC 1,5/ 5-ST-3,5 - 1772647



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

---



## Feed-through header - MCO 1,5/ 5-G1L-3,5 KMGY - 2278380

### Accessories

#### Printed-circuit board connector - MC 1,5/ 5-ST-3,5 - 1840395



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

---

#### Printed-circuit board connector - MCVW 1,5/ 5-ST-3,5 - 1862881



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

---

#### Printed-circuit board connector - MCVR 1,5/ 5-ST-3,5 - 1863181



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

---

#### Printed-circuit board connector - FK-MCP 1,5/ 5-ST-3,5 - 1939947



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

---

#### Printed-circuit board connector - FMC 1,5/ 5-ST-3,5 - 1952296



PCB connector, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 5, pitch: 3.5 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

---

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Pluggable Terminal Blocks](#) category:*

*Click to view products by [Phoenix Contact](#) manufacturer:*

Other Similar products are found below :

[57.510.0053](#) [MC 1.5/ 6-ST-3.5 GY AU](#) [734-104](#) [734-302](#) [8-141-P](#) [8426620000](#) [860505](#) [860810](#) [GBPACX-12](#) [93.731.4953.0](#) [PV05-5,08-K](#)  
[PVP02-5,00](#) [PVP03-3,50](#) [PVP04-3,50](#) [PVS02-5,00](#) [1-1986160-3](#) [1377680000](#) [1531000000](#) [1546228-5](#) [ELFH16150](#) [ELFP03110](#)  
[ELFP10210](#) [ELFT06250](#) [ELVP03100](#) [1700101](#) [1700410](#) [1700425](#) [1702246](#) [1705229](#) [1710175](#) [1714537](#) [1717806](#) [1719600](#) [1728941](#)  
[1734692](#) [1734795](#) [1736036](#) [1740194](#) [1740291](#) [1740628](#) [1740990](#) [1746952](#) [1750207](#) [1752441](#) [1752865](#) [1754115](#) [1754144](#) [1756913](#)  
[1760051](#) [1760336](#)