

Printed-circuit board connector - MC 1,5/ 2-ST-3,5 - 1840366

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PCB connector, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin




The figure shows a 10-position version of the product

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors



Key Commercial Data

Packing unit	250 pc
GTIN	 4 017918 111564
GTIN	4017918111564
Weight per Piece (excluding packing)	1.360 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Item properties

Brief article description	Printed-circuit board connector
Plug-in system	MINI COMBICON
Type of contact	Female connector
Range of articles	MC 1,5/...-ST
Pitch	3.5 mm
Number of positions	2
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted (L)
Screw thread	M2

Printed-circuit board connector - MC 1,5/ 2-ST-3,5 - 1840366

Technical data

Item properties

Locking	without
Number of levels	1
Number of connections	2
Number of potentials	2

Electrical parameters

Rated current	8 A
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Connection capacity

Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG / kcmil	28 ... 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 0.5 mm ²
2 conductors with same cross section, solid	0.08 mm ² ... 0.5 mm ²
2 conductors with same cross section, flexible	0.08 mm ² ... 0.75 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve	0.25 mm ² ... 0.34 mm ²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm ² ... 0.5 mm ²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.6 mm
Stripping length	7 mm
Torque	0.22 Nm ... 0.25 Nm

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	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)

Material data - housing

Insulating material group	I
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Dimensions for the product

Length [l]	16.1 mm
Width [w]	7 mm
Height [h]	11.1 mm
Pitch	3.5 mm
Height (without solder pin)	11.1 mm
Dimension a	3.5 mm

Packaging information

Type of packaging	packed in cardboard
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Printed-circuit board connector - MC 1,5/ 2-ST-3,5 - 1840366

Technical data

Packaging information

Pieces per package	250
Denomination packing units	Pcs.

Ambient conditions

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

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 ² / solid / > 10 N
	0.14 mm ² / flexible / > 10 N
	1.5 mm ² / solid / > 40 N
	1.5 mm ² / flexible / > 40 N

Mechanical tests according to standard

Visual examination	Test passed IEC 60512-1-1:2002-02
Dimensional test	Test passed IEC 60512-1-2:2002-02
Resistance of marking	Test passed IEC 60068-2-70:1995-12
Result	Test passed
Specification	IEC 60512-13-2:2006-02
No. of cycles	25
Insertion strength per pos. approx.	6 N
Withdraw strength per pos. approx.	4 N
Polarization and coding	Test passed IEC 60512-13-5:2006-02
Result	Test passed
Specification	IEC 60512-15-1:2008-05
Test force per pos.	24.5 N

Air clearances and creepage distances

Specification	IEC 60664-1:2007-04
Rated insulation voltage (III/3)	160 V
Minimum clearance - inhomogeneous field (III/3)	1.5 mm
Minimum clearance - inhomogeneous field (III/2)	1.5 mm
Minimum clearance - inhomogeneous field (II/2)	1.5 mm
Minimum creepage distance value (III/3)	2 mm
Minimum creepage distance value (III/2)	1.5 mm
Minimum creepage distance value (II/2)	1.6 mm

Printed-circuit board connector - MC 1,5/ 2-ST-3,5 - 1840366

Technical data

Current carrying capacity / derating curves

Mechanical tests (A)

Insertion strength per pos. approx.	6 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 ₁	1.3 mΩ
Insertion/withdrawal cycles	25
Contact resistance R ₂	1.4 mΩ
Impulse withstand voltage at sea level	2.95 kV
Power-frequency withstand voltage	1.39 kV
Insulation resistance, neighboring positions	> 1.6 TΩ

Climatic tests (D)

Specification	ISO 6988:1985-02
Cold stress	-40 °C/2 h
Thermal stress	100 °C/168 h
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /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	Finger safety with IP20 test finger

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309

Printed-circuit board connector - MC 1,5/ 2-ST-3,5 - 1840366

Classifications

eCl@ss

eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	EC002638
ETIM 7.0	EC002638

UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121409

Approvals


Approvals

Approvals

CSA / IECEx CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized

Ex Approvals

Approval details

CSA		http://www.csagroup.org/services-industries/product-listing/	13631
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	8 A	8 A	
mm ² /AWG/kcmil	28-16	28-16	

Printed-circuit board connector - MC 1,5/ 2-ST-3,5 - 1840366

Approvals

IECEE CB Scheme		http://www.iecee.org/	DE1-60987-B1B2
Nominal voltage UN	160 V		
Nominal current IN	8 A		
mm ² /AWG/kcmil	0.2-1.5		

VDE Gutachten mit Fertigungsüberwachung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40011723
Nominal voltage UN	160 V		
Nominal current IN	8 A		
mm ² /AWG/kcmil	0.2-1.5		

EAC			B.01742
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20110128
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	8 A	8 A	
mm ² /AWG/kcmil	30-14	30-14	

Accessories

Accessories

Labeled terminal marker

Marker card - SK 3,5/2,8:FORTL.ZAHLEN - 0804073



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 99, mounting type: adhesive, for terminal block width: 3.5 mm, lettering field size: 3.5 x 2.8 mm

Screwdriver tools

Printed-circuit board connector - MC 1,5/ 2-ST-3,5 - 1840366

Accessories

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

Additional products

Printed-circuit board connector - MCV 1,5/ 2-G-3,5 P20 THRR32 - 1780888



PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

Printed-circuit board connector - MC 1,5/ 2-G-3,5 P26 THR - 1788505



PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering

Printed-circuit board connector - MC 1,5/ 2-G-3,5 P26 THRR32 - 1788518



PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering

Printed-circuit board connector - MC 1,5/ 2-G-3,5 P20 THRR32 - 1788738



PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering

Printed-circuit board connector - MC 1,5/ 2-ST-3,5 - 1840366

Accessories

Printed-circuit board connector - MC 1,5/ 2-G-3,5 P14 THR - 1788945

PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering



Printed-circuit board connector - MC 1,5/ 2-G-3,5 P14 THRR32 - 1788958

PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering



Printed-circuit board connector - MCV 1,5/ 2-G-3,5 - 1843606

PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: green, contact surface: Tin, mounting: Wave soldering



Feed-through header - MC 1,5/ 2-G-3,5 - 1844210

PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: green, contact surface: Tin, mounting: Wave soldering



Feed-through header - EMC 1,5/ 2-G-3,5 - 1897092

PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: green, contact surface: Tin, mounting: Press-in technology



Printed-circuit board connector - MC 1,5/ 2-ST-3,5 - 1840366

Accessories

Feed-through header - EMCV 1,5/ 2-G-3,5 - 1911017



PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: green, contact surface: Tin, mounting: Press-in technology

Feed-through header - MC 1,5/ 2-G-3,5 THT - 1937499



PCB headers, number of positions: 2, pitch: 3.5 mm, color: black, User information and design recommendations for through hole reflow technology can be found under "Downloads"

Feed-through header - MCV 1,5/ 2-G-3,5 THT - 1937606



PCB headers, number of positions: 2, pitch: 3.5 mm, color: black, User information and design recommendations for through hole reflow technology can be found under "Downloads"

Feed-through header - MCV 1,5/ 2-G-3,5 THT-R56 - 1950984



PCB headers, number of positions: 2, pitch: 3.5 mm, color: black, User information and design recommendations for through hole reflow technology can be found under "Downloads"

Printed-circuit board connector - MCDNV 1,5/ 2-G1-3,5 P26THR - 1952788



PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, The pin length is 26 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: [http: "Downloads"](#).

Printed-circuit board connector - MC 1,5/ 2-ST-3,5 - 1840366

Accessories

Printed-circuit board connector - MCDNV 1,5/ 2-G1-3,5 P14THR - 1952979



PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, The pin length is 1.4 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: "Downloads".

Feed-through header - MCDN 1,5/ 2-G1-3,5 P26THR - 1953716



PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, The pin length is 2.6 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: "Downloads".

Header - MCDN 1,5/ 2-G1-3,5 P14THR - 1953907



PCB headers, nominal current: 8 A, number of positions: 2, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, The pin length is 1.4 mm. User information and design recommendations on Through Hole Reflow Technology can be found at: "Downloads".

Feed-through header - MC 1,5/ 2-G-3,5 THT-R32 - 1996689



PCB headers, number of positions: 2, pitch: 3.5 mm, color: black, User information and design recommendations for through hole reflow technology can be found under "Downloads".

Feed-through header - MCV 1,5/ 2-GF-3,5 THT-R32 - 1996799



PCB headers, number of positions: 2, pitch: 3.5 mm, color: black, User information and design recommendations for through hole reflow technology can be found under "Downloads".