

Printed-circuit board connector - MC 1,5/13-ST-3,81 - 1803688

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://download.phoenixcontact.com>)

Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

Why buy this product

- ☒ Generously dimensioned wiring space
- ☒ Low design height of the MC 1,5 plug range
- ☒ Plug-in direction parallel to the conductor axis
- ☒ Individual position keying by removing the keying tab and connecting the keying profile to the header



Key commercial data

Packing unit	1
Minimum order quantity	50
Catalog page	Page 178 (CC-2011)
GTIN	 4 017918 045999
Custom tariff number	85366990
Country of origin	GERMANY

Technical data

Dimensions / positions

Height	11.1 mm
Pitch	3.81 mm
Dimension a	45.72 mm
Number of positions	13
Screw thread	M2
Tightening torque, min	0.22 Nm
Tightening torque max	0.25 Nm

Technical data

Range of articles	MC 1,5/...-ST
Insulating material group	I

Printed-circuit board connector - MC 1,5/13-ST-3,81 - 1803688

Technical data

Technical data

Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Connection in acc. with standard	EN-VDE
Nominal current I _N	8 A
Nominal voltage U _N	160 V
Nominal cross section	1.5 mm ²
Maximum load current	8 A (with 1.5 mm ² conductor cross section)
Insulating material	PA
Inflammability class according to UL 94	V0
Internal cylindrical gage	A1
Stripping length	7 mm
Nominal voltage, UL/CUL Use Group B	300 V
Nominal current, UL/CUL Use Group B	8 A
Nominal voltage, UL/CUL Use Group D	300 V
Nominal current, UL/CUL Use Group D	8 A

Connection data

Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.25 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve max.	1.5 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.25 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve max.	0.5 mm ²
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
2 conductors with same cross section, solid min.	0.08 mm ²
2 conductors with same cross section, solid max.	0.5 mm ²
2 conductors with same cross section, stranded min.	0.08 mm ²
2 conductors with same cross section, stranded max.	0.75 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	0.34 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm ²

Printed-circuit board connector - MC 1,5/13-ST-3,81 - 1803688

Technical data

Connection data

Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	14

Classifications

eclass

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260701
eCl@ss 6.0	27260704
eCl@ss 7.0	27440402

etim

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	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 / UL Recognized / VDE report with production monitoring / cUL Recognized / GOST / IECEE CB Scheme / GOST / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

Printed-circuit board connector - MC 1,5/13-ST-3,81 - 1803688

Approvals

CSA 		
	B	D
mm²/AWG/kcmil	28-16	28-16
Nominal current I _N	8 A	8 A
Nominal voltage U _N	300 V	300 V

UL Recognized 		
	B	D
mm²/AWG/kcmil	30-14	30-14
Nominal current I _N	8 A	8 A
Nominal voltage U _N	300 V	300 V

VDE report with production monitoring 	
mm²/AWG/kcmil	0.2-1.5
Nominal current I _N	8 A
Nominal voltage U _N	160 V

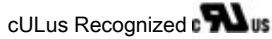
cUL Recognized 		
	B	D
mm²/AWG/kcmil	30-14	30-14
Nominal current I _N	8 A	8 A
Nominal voltage U _N	300 V	300 V

GOST 	
--	--

IECEE CB Scheme	
mm²/AWG/kcmil	0.2-1.5
Nominal current I _N	8 A
Nominal voltage U _N	160 V

Printed-circuit board connector - MC 1,5/13-ST-3,81 - 1803688

Approvals



Accessories

Accessories

Marking

Marker cards - SK 3,81/2,8:FORTL.ZAHLEN - 0804109



Marker cards, Card, white, Labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: Adhesive, For terminal block width: 3.81 mm

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Tools

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



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

Cable housing - KGG-MC 1,5/13 - 1834453



Cable housing, Pitch: 0 mm, Number of positions: 13, Dimension a: 51.92 mm, Color: green

Printed-circuit board connector - MC 1,5/13-ST-3,81 - 1803688

Accessories

Additional products

Base strip - MCDV 1,5/13-G-3,81 - 1830512



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

Base strip - MCDV 1,5/13-G1-3,81 - 1847848



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

Base strip - MCD 1,5/13-G-3,81 - 1830062



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

Base strip - MCD 1,5/13-G1-3,81 - 1843185



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

Printed-circuit board connector - IMC 1,5/13-ST-3,81 - 1857993



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

Printed-circuit board connector - MC 1,5/13-ST-3,81 - 1803688

Accessories

Base strip - MCVK 1,5/13-G-3,81 - 1832840



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin, Assembly: DIN rail

Base strip - MCVDU 1,5/13-G-3,81 - 1837544



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering

Base strip - MCV 1,5/13-G-3,81 - 1803536



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering

Base strip - MC 1,5/13-G-3,81 - 1803387



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering

Base strip - SMC 1,5/13-G-3,81 - 1827389



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Soldering

Base strip - EMCV 1,5/13-G-3,81 - 1860757



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Press-in

Printed-circuit board connector - MC 1,5/13-ST-3,81 - 1803688

Accessories

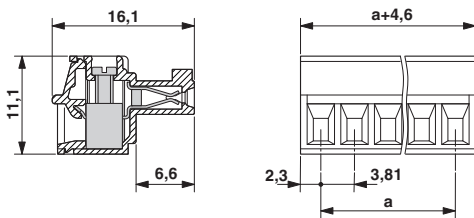
Base strip - EMC 1,5/13-G-3,81 - 1897911

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 13, Pitch: 3.81 mm, Color: green, Contact surface: Tin, Assembly: Press-in



Drawings

Dimensioned drawing



© Phoenix Contact 2012 - all rights reserved
<http://www.phoenixcontact.com>