1766754

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PCB headers, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 630 V, contact surface: Tin, contact connection type: Pin, number of potentials: 11, number of rows: 1, number of positions: 11, number of connections: 11, product range: GMSTBVA 2,5/..-G, pitch: 7.5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.9 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies
- · Well-known mounting principle allows worldwide use
- · Larger pitch for increased voltage requirements
- · Closed contour for optimum stability of the plug-in connection
- · Vertical connection enables multi-row arrangement on the PCB

Commercial data

Item number	1766754
Packing unit	50 рс
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA03
Product key	AACSIE
Catalog page	Page 345 (C-1-2013)
GTIN	4017918032777
Weight per piece (including packing)	5.366 g
Weight per piece (excluding packing)	4.72 g
Customs tariff number	85366930
Country of origin	DE

1766754

https://www.phoenixcontact.com/us/products/1766754



Technical data

Product properties

Туре	Standard
Product line	COMBICON Connectors M
Product type	PCB headers
Product family	GMSTBVA 2,5/G
Number of positions	11
Pitch	7.5 mm
Number of connections	11
Number of rows	1
Mounting flange	without
Number of potentials	11
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	630 V
Degree of pollution	3
Contact resistance	3.7 mΩ
Rated voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	6 kV

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Material specifications

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)

Material data - housing



1766754

https://www.phoenixcontact.com/us/products/1766754

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
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

Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be
	plugged in or disconnected when carrying voltage or under load.

Dimensions

Dimensional drawing	
Pitch	7.5 mm
Width [w]	82.45 mm
Height [h]	15.9 mm
Length [I]	8.57 mm
Installed height	12 mm
Solder pin length [P]	3.9 mm
Pin dimensions	1 x 1 mm

	Hole diameter	1.4 mm

Mechanical tests

Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed

1766754

https://www.phoenixcontact.com/us/products/1766754

Specification	IEC 60512-13-5:2006-02
Result	Test passed
ontact holder in insert	
Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed
nsertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 N
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	12
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	6.3 mm
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
	5.5 mm
minimum clearance value - non-homogenous field (III/2)	
	5.5 mm
minimum clearance value - non-homogenous field (III/2)	
minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) Rated insulation voltage (II/2) Rated surge voltage (II/2)	5.5 mm
minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) Rated insulation voltage (II/2)	5.5 mm 630 V

Environmental and real-life conditions

Vibration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz

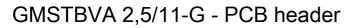
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	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)
Fest duration per axis	2.5 h
ability test	
Specification	IEC 60512-9-1:2010-03
mpulse withstand voltage at sea level	7.3 kV
Contact resistance R ₁	3.7 mΩ
Contact resistance R ₂	3.8 mΩ
nsertion/withdrawal cycles	25
Specification Corrosive stress	ISO 6988:1985-02 0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	3.31 kV
bient conditions	
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
	-40 °C 70 °C
Ambient temperature (storage/transport)	
Ambient temperature (storage/transport) Relative humidity (storage/transport)	30 % 70 %



1766754

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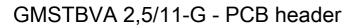
Classifications

ECLASS

ECLASS-11.0	27460201
ECLASS-12.0	27460201
ECLASS-13.0	27460201

ETIM

	ETIM 9.0	EC002637		
UNSPSC				
	UNSPSC 21.0	39121400		



1766754

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Environmental product compliance

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

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