1701508

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Feed-through header, nominal cross section: 16 mm<sup>2</sup>, color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: Pin, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, product range: DFK-PC 6-16/..-G, pitch: 10.16 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.1 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 16, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard

## Your advantages

- Well-known mounting principle allows worldwide use
- · Flange system enables secure fixing to the housing panel by means of tool-free snap-in locking or screws

## Commercial data

Item number	1701508
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	AA05
Product key	AAEWEA
Catalog page	Page 574 (C-1-2013)
GTIN	4046356030571
Weight per piece (including packing)	38.21 g
Weight per piece (excluding packing)	33.626 g
Customs tariff number	85366990
Country of origin	PL

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## Technical data

#### **Product properties**

Туре	Feed-through header
Product line	COMBICON Connectors XL
Product type	Feed-through header
Product family	DFK-PC 6-16/G
Number of positions	7
Pitch	10.16 mm
Number of connections	7
Number of rows	1
Mounting flange	without
Number of potentials	7
Pin layout	Linear pinning
Solder pins per potential	3

### **Electrical properties**

Nominal current I <sub>N</sub>	76 A
Nominal voltage U <sub>N</sub>	1000 V
Degree of pollution	3
Contact resistance	0.5 mΩ
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 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	Selective coating
Metal surface contact area (top layer)	Silver (4 - 8 µm Ag)
Metal surface contact area (middle layer)	Nickel (2 - 4 µm Ni)
Metal surface soldering area (top layer)	Silver (4 - 8 µm Ag)
Metal surface soldering area (middle layer)	Nickel (2 - 4 µm Ni)

Material data - housing





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Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	VO
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

Dimensions	
Dimensional drawing	Det h
Pitch	10.16 mm
Width [w]	90.56 mm
Height [h]	23.1 mm
Length [I]	46.4 mm
Installed height	19 mm
Solder pin length [P]	4.1 mm
Pin dimensions	1.2 x 1 mm

PCB design

Pin spacing	10.16 mm
Hole diameter	1.7 mm

### Mechanical tests

Visual inspection	
Specification	IEC 60512-1:2001-01
Result	Test passed
Dimension check	
Specification	IEC 60512-1:2001-01
Result	Test passed
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed



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arization and coding	
Specification	IEC 60512-7:1993-08 (Polarization)
Result	Test passed
ontact holder in insert	
Specification	IEC 60512-8:1993-01
Contact holder in insert Requirements >20 N	Test passed
sertion and withdrawal forces	
Result	Test passed
No. of cycles	20
Insertion strength per pos. approx.	15 N
Withdraw strength per pos. approx.	15 N
ctrical tests hermal test   Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	8
isulation resistance	
Specification	IEC 60512-2:1985-00
Insulation resistance, neighboring positions	$10^{12} \Omega$
ir 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)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

### Environmental and real-life conditions

Vibration test	
Specification	IEC 60068-2-6:1995-03
Frequency	10 - 150 - 10 Hz



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Sweep speed	1 octave/min
	0.35 mm (10 Hz 60.1 Hz)
Amplitude	5g (60.1 Hz 150 Hz)
Sweep speed	
Test duration per axis	2.5 h
urability test	
Specification	IEC 60512-5:1992-08
Impulse withstand voltage at sea level	9.8 kV
Contact resistance R <sub>1</sub>	0.5 mΩ
Contact resistance R <sub>2</sub>	0.6 mΩ
Insertion/withdrawal cycles	20
imatic test	
Specification	ISO 6988:1985-02
Corrosive stress	KFW 0.2 S/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	4.26 kV
nbient conditions	
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
kaging specifications	
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Type of packaging	packed in cardboard
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## Classifications

### ECLASS

ECLASS-12.0 27460201	
ECLASS-13.0 27460201	

### ETIM

	ETIM 9.0	EC002637		
UNSPSC				
	UNSPSC 21.0	39121400		

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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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