

1703043

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Feed-through header, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Silver, contact connection type: Socket, number of potentials: 9, number of rows: 1, number of positions: 9, number of connections: 9, product range: DFK-IPC 16/..-GF-SH, 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: Screw locking mechanism, mounting: Threaded flange, 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
- · Inverted header with socket contacts for touch-proof device outputs or PCB/PCB connections
- · Shroud for professional EMC shield feed-through on the inside of the device
- · Screwable flange for superior mechanical stability
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations

Commercial data

Item number	1703043
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	AA05
Product key	AAEWAC
Catalog page	Page 580 (C-1-2013)
GTIN	4046356031639
Weight per piece (including packing)	39.3 g
Weight per piece (excluding packing)	35.216 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-IPC 16/GF-SH
Number of positions	9
Pitch	10.16 mm
Number of connections	9
Number of rows	1
Mounting flange	Threaded flange
Number of potentials	9
Pin layout	Linear pinning
Solder pins per potential	3

Electrical properties

Nominal current I _N	76 A
Nominal voltage U _N	1000 V
Degree of pollution	3
Contact resistance	0.3 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	completely silver-plated
Metal surface contact area (top layer)	Silver (4 - 8 µm Ag)
Metal surface soldering area (top layer)	Silver (4 - 8 μm Ag)

Material data - housing

Material data - Hodsing	
Color (Housing)	green (6021)
Insulating material	PA



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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	P
Pitch	10.16 mm
Width [w]	132.52 mm
Height [h]	22 mm
Length [I]	34.55 mm
Installed height	19.9 mm
Solder pin length [P]	4.1 mm
Pin dimensions	0.8 x 1.2 mm
PCB design	

Mechanical tests

Pin spacing

Hole diameter

Vigual	inspection
visuai	IIISPECTION

Specification	IEC 60512-1:2001-01
Result	Test passed

10.16 mm

1.7 mm

Dimension check

Specification	IEC 60512-1:2001-01
Result	Test passed

Resistance of inscriptions

Specification	IEC 60068-2-70:1995-12
Result	Test passed

Polarization and coding



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Specification	IEC 60512-7:1993-08 (Polarization)
Result	Test passed
Contact holder in insert	
Specification	IEC 60512-8:1993-01
Contact holder in insert	Test passed
Requirements >20 N	
nsertion and withdrawal forces	
	Test passed
nsertion and withdrawal forces	Test passed 50
nsertion and withdrawal forces Result	

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	9

Insulation resistance

Specification	IEC 60512-2:1985-00
Insulation resistance, neighboring positions	10 ¹² Ω

Air clearances and creepage distances |

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Specification	IEC 60664-1:2007-04
Insulating material group	I
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
Sweep speed	1 octave/min



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Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)
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 ₁	0.3 mΩ
Contact resistance R ₂	0.4 mΩ
Insertion/withdrawal cycles	50
limatic 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
mbient 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
ckaging specifications	
Type of packaging	packed in cardboard
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Type of packaging	packed in cardboard



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Classifications

ECLASS

	ECLASS-11.0	27460201
	ECLASS-12.0	27460201
	ECLASS-13.0	27460201
ET	TIM	
	ETIM 9.0	EC002637
UN	NSPSC	
	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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