

0710154

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Feed-through header, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 15, number of rows: 1, number of positions: 15, number of connections: 15, product range: DFK-MSTB 2,5/..-GF, pitch: 5 mm, connection method: Solder/Slip-on connection, mounting: Direct mounting, pin layout: Linear pinning, solder pin [P]: 9.3 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

Your advantages

- · Cable connection on the inside of the device enables flexible positioning of the panel feed-through
- Free choice permanent solder connection or standardized slip-on connection
- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies
- · Screwable flange for superior mechanical stability

Commercial data

Item number	0710154
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA03
Product key	AACWAB
Catalog page	Page 353 (C-1-2013)
GTIN	4017918005184
Weight per piece (including packing)	14.84 g
Weight per piece (excluding packing)	13.727 g
Customs tariff number	85366930
Country of origin	DE



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Technical data

Product properties

Туре	Feed-through header
Product line	COMBICON Connectors M
Product type	Feed-through header
Product family	DFK-MSTB 2,5/GF
Number of positions	15
Pitch	5 mm
Number of connections	15
Number of rows	1
Mounting flange	Threaded flange
Number of potentials	15
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	320 V
Degree of pollution	3
Contact resistance	1.6 mΩ
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Mounting

Mounting type	Direct mounting
Pin layout	Linear pinning
Flange	
Tightening torque	0.3 Nm
Attachment to feed-through panel	
Tightening torque	0.3 Nm
Screw	0708263 DFK-MSTB SS for housing walls of up to 6 mm thick

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



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Surface characteristics	Tin-plated
Metal surface contact area (top layer)	Tin (5 - 7 μm Sn)
Metal surface contact area (middle layer)	Nickel (2 - 3 μm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 μm Ni)
aterial data - housing	
Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V2
es	
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
nensions	
Dimensional drawing	ph ph
Pitch	5 mm
Width [w]	95 mm
Height [h]	29.5 mm
Length [I]	17.5 mm
Installed height	20.2 mm
Solder pin length [P]	9.3 mm
Pin dimensions	0.8 x 2.8 mm
CB design	
Hole diameter	3.2 mm
chanical tests	
isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
imension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed



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Specification	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
Contact 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.	10 N
Withdraw strength per pos. approx.	7 N
ectrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	16
nsulation resistance Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MQ
insulation resistance, neighboring positions	> 3 IVI2
Air clearances and creepage distances	
an ordananoes and ordepage distances	
Specification	IEC 60664-1:2007-04
· - · ·	IEC 60664-1:2007-04
Specification	IEC 60664-1:2007-04 I CTI 600
Specification Insulating material group	1
Specification Insulating material group Comparative tracking index (IEC 60112)	I CTI 600
Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	I CTI 600 320 V
Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	I CTI 600 320 V 4 kV
Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	I CTI 600 320 V 4 kV 3 mm
Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	I CTI 600 320 V 4 kV 3 mm 4 mm
Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2)	I CTI 600 320 V 4 kV 3 mm 4 mm 320 V
Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2)	I CTI 600 320 V 4 kV 3 mm 4 mm 320 V 4 kV
Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2)	I CTI 600 320 V 4 kV 3 mm 4 mm 320 V 4 kV 3 mm
Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2)	I CTI 600 320 V 4 kV 3 mm 4 mm 320 V 4 kV 3 mm 3 mm
Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) Rated insulation voltage (III/2)	I CTI 600 320 V 4 kV 3 mm 4 mm 320 V 4 kV 3 mm 300 V

Environmental and real-life conditions

Vibration test



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Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
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 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	1.6 mΩ
Contact resistance R ₂	1.7 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
limatic test	
Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm}^3~\mathrm{SO}_2~\mathrm{on}~300~\mathrm{dm}^3/40~^\circ\mathrm{C}/1~\mathrm{cycle}$
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	2.21 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
kaging specifications	
Type of packaging	packed in cardboard
skaging specifications	
Type of packaging	packed in cardboard



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27460201
	ECLASS-12.0	27460201
	ECLASS-13.0	27460201
ETIM		
	ETIM 9.0	EC002637
UN	SPSC	

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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