

1154075

https://www.phoenixcontact.com/us/products/1154075

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SMD female connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 20, pitch: 0.8 mm, color: black, contact surface: Gold, contact connection type: Socket, mounting: SMD soldering

Your advantages

- · Gold-plated contacts ensure transfer quality remains stable over the long term
- · Reliable mechanical and electrical connections, thanks to the double-sided ScaleX contact system
- Robustness: ScaleX technology for high tolerance compensation and protection of contacts
- · Flexible device design: various numbers of positions, designs, and stack heights with high wipe lengths

Commercial data

Item number	1154075
Packing unit	250 pc
Minimum order quantity	250 pc
Sales key	AA23
Product key	AAWADD
GTIN	4063151154707
Weight per piece (including packing)	3.616 g
Weight per piece (excluding packing)	3.616 g
Customs tariff number	85366930
Country of origin	CZ



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Technical data

Product properties

Product type	SMD female connector
Product family	FP 0,8/FV 10,85
Number of positions	20
Pitch	0.8 mm
Number of rows	2
Number of potentials	20
Pin layout	Linear pad geometry

Electrical properties

Nominal current I _N	1.7 A IEC 60512-5-2:2002-02 (at 20°C 80-pos.)
Degree of pollution	3
Contact resistance	20 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003

Mounting

Mounting type	SMD soldering
Pin layout	Linear pad geometry

Processing notes

3 1111	
Process	Reflow soldering
Moisture Sensitive Level	MSL 1

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)	Gold (Au)
Metal surface contact area (middle layer)	Nickel (Ni)
Metal surface soldering area (top layer)	Tin (Sn)
Metal surface soldering area (middle layer)	Nickel (Ni)

Material data - housing

Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIb
CTI according to IEC 60112	150
Flammability rating according to UL 94	V0

Notes



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Notes on operation	The permissible voltage during operation depends on the application, taking into consideration the air clearances and creepage distances within the scope of insulation requirements i
Details for soldering processes	accordance with IEC 60664-1. The items are suitable for assembly on both sides and for
	overhead soldering.
nensions	
Dimensional drawing	
	ph ph
Pitch	0.8 mm
Width [w]	12.78 mm
Height [h]	11.45 mm
Length [I]	6.9 mm
Installed height	10.85 mm
Application	
Contact cover	0.8 mm
Center offset	± 0.7 mm in longitudinal and transverse direction
Stack height	12 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/MV 1,15)
	13.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/MV 2,65)
	19.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/MV 8,65)
Wipe length	1.5 mm
Angular tolerance	± 5 ° in longitudinal and transverse direction (when plugging in)
	± 5 ° in longitudinal and transverse direction (when plugged in)
Axial offset in X direction (longitudinal)	± 0.3 mm (Tolerance compensation when plugged in)
Axial offset in Y direction (transversal)	± 0.3 mm (Tolerance compensation when plugged in)
PCB design	
Pad geometry	0.5 x 3 mm
·	0.5 x 3 mm
hermal test Test group C	
Specification	IEC 60512-5-2:2002-02
Tested number of positions	80
Air clearances and creepage distances	
Insulating material group	IIIb
	0.25 mm

Environmental and real-life conditions



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Durability test

Specification	IEC 60512-9-1:2010-03 (following)	
Contact resistance R ₁	20 mΩ	
Contact resistance R ₂	20 mΩ	
Insertion/withdrawal cycles	500	
Insulation resistance, neighboring positions	≥ 5 GΩ	
Ambient conditions		
Ambient temperature (operation)	-55 °C 125 °C	
Ambient temperature (storage/transport)	-40 °C 70 °C	

30 % ... 70 %

-5 °C ... 100 °C

Packaging specifications

Relative humidity (storage/transport)
Ambient temperature (assembly)

Dimensional drawing	W. T. W. W. T. W. W. T. W. W. T. W.
Type of packaging	24 mm wide tape
[W] tape width	24 mm
[W2] coil overall dimension	30.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07

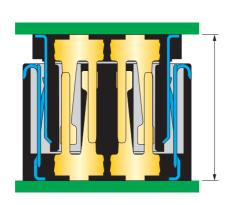


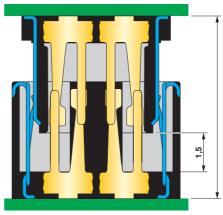
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Drawings









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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1154075



cULus Recognized

Approval ID: E118976-20190703



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Classifications

ECLASS

	ECLASS-11.0	27460201			
	ECLASS-12.0	27460201			
	ECLASS-13.0	27460201			
ET	ETIM				
	ETIM 9.0	EC002637			
UNSPSC					
	UNSPSC 21.0	39121409			



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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%



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Mandatory accessories

FP 0,8/20-MH - SMD male connectors

1104549

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FP 0,8/20-MV 1,15 - SMD male connectors

1061727

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FP 0,8/20-MV 2,65 - SMD male connectors

1061697

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FP 0,8/20-MV 7,15 - SMD male connectors

1154018

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FP 0,8/20-MV 8,65 - SMD male connectors

1154013

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SMD male connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 20, pitch: 0.8 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

Accessories

FP 0,8/20-MV 1,15 - SMD male connectors

1061727

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FP 0,8/20-MV 8,65 - SMD male connectors

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