

1331962

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SMD female connector, nominal current: 0.5 A, Test voltage: 500 V AC, number of positions: 20, pitch: 0.635 mm, color: black, contact surface: Gold, contact connection type: Socket, mounting: SMD soldering



Your advantages

- · Design-in support during device development through M-CAD/E-CAD data and a free sample service
- · Cost and space savings with the comprehensive portfolio available in various stack heights
- · Easy mating with integrated keyways and tolerance compensation for error-free production
- · Time savings during the development process with customer-specific simulations for data integrity
- · High-speed data transmission up to 30 Gbps for various possible applications

Commercial data

Item number	1331962
Packing unit	750 pc
Minimum order quantity	750 pc
Sales key	AA23
Product key	AAWACA
GTIN	4063151628123
Weight per piece (including packing)	1.075 g
Weight per piece (excluding packing)	1 g
Customs tariff number	85366930
Country of origin	CN



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Technical data

Product properties

Product type	SMD female connector
Product family	FS 0,635/FV-R- 4,0
Number of positions	20
Pitch	0.635 mm
Number of rows	2
Pin layout	Linear pad geometry

Electrical properties

Nominal current I _N	0.5 A IEC 60512-5-2:2002-02 (40-pos. / 60-pos.)
Degree of pollution	3
Contact resistance	40 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003
Rated voltage (I/1)	125 V
Rated surge voltage (I/1)	0.8 kV

Mounting

Mounting type	SMD soldering
Pin layout	Linear pad geometry
Processing notes	

Processing notes

Process	Reflow soldering
Moisture Sensitive Level	MSL 1
Classification temperature T _c	260 °C
Solder cycles in the reflow	3

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	160



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Flammability rating according to UL 94	V0
otes	
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 in accordance with IEC 60664-1.
mensions	
Dimensional drawing	Jana Jana Jana Jana Jana Jana Jana Jana
	p
Pitch	0.635 mm
Width [w]	14.22 mm
Height [h]	4.6 mm
Length [I]	6.4 mm
Installed height	4 mm
Application	
Contact cover	0.6 mm
Center offset	± 0.5 mm in longitudinal and transverse direction
Stack height	6 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/MV-R- 5,0)
	9 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/MV-R- 8,0)
	10 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/MV-R- 9,0)
Wipe length	0.6 mm
Angular tolerance	± 10 ° in longitudinal and transverse direction (when plugging in)
	± 2 ° in longitudinal and transverse direction (when plugged in)
PCB design	
Pad geometry	0.35 x 2.5 mm
Hole diameter	0.9 mm
ectrical tests	
Comoan Gala	
Thermal test Test group C	
Specification	IEC 60512-5-2:2002-02
Tested number of positions	60
Insulation resistance	
Charification	IEC 60512-3-1:2002-02
Specification	



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Specification	IEC 60664-1:2007-04
Insulating material group	IIIb
Minimum value for clearance and creepage distance	0.19 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 55 - 10 Hz
Sweep speed	1 octave/min
Amplitude	1.52 mm
Acceleration	181 m/s²
Test duration per axis	2 h

Durability test

Specification	IEC 60512-9-1:2010-03 (following)
Contact resistance R ₁	40 mΩ
Contact resistance R ₂	40 mΩ
Insertion/withdrawal cycles	50
Insulation resistance, neighboring positions	≥ 5 GΩ

Climatic test

Specification	IEC 60068-2-60:2015-06
Corrosive stress	Method 4, 10 days
Thermal stress	125 °C/168 h
Power-frequency withstand voltage	500 V

Ambient conditions

Ambient temperature (operation)	-55 °C 125 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

Packaging specifications

Dimensional drawing	w A
Type of packaging	32 mm wide tape
[W] tape width	32 mm
[W2] coil overall dimension	38.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive



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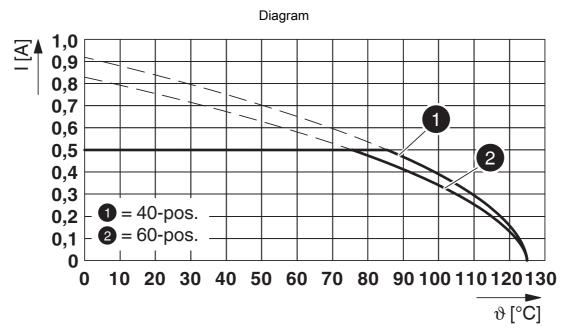
Specification DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07
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Drawings



Type: FS 0,635/...-MV-R- 5,0 with FS 0,635/...-FV-R- 4,0



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1331962

e 911 us	cULus Recognized Approval ID: E118976-20230512				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		29.9 V	0.5 A	-	-



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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		



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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

FS 0,635/ 20-MV-R- 5,0 - SMD male connectors

1332120

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SMD male connector, nominal current: 0.5 A, Test voltage: 500 V AC, number of positions: 20, pitch: 0.635 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering



FS 0,635/20-MV-R-8,0 - SMD male connectors

1332124

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SMD male connector, nominal current: 0.5 A, Test voltage: 500 V AC, number of positions: 20, pitch: 0.635 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering





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FS 0,635/20-MV-R-9,0 - SMD male connectors

1332195

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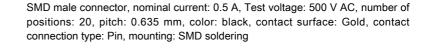
SMD male connector, nominal current: 0.5 A, Test voltage: 500 V AC, number of positions: 20, pitch: 0.635 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

Accessories

FS 0,635/20-MV-R-8,0 - SMD male connectors

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