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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: Au, contact connection type: Socket, mounting: SMD soldering



Your advantages

- · Design-in support during device development using MCAD/ECAD 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 рс
Minimum order quantity	750 рс
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

1331962

https://www.phoenixcontact.com/us/products/1331962

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
Data management status	
Article revision	00
Electrical properties	
Nominal current I _N	0.5 A IEC 60512-5-2:2002-02 (40-pos. / 60-pos.)
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	
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

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CTI according to IEC 60112	150
Flammability rating according to UL 94	V0

Notes

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.

Dimensions

Dimensional drawing	h h 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

n longitudinal and transverse direction (when plugged in)
in longitudinal and transverse direction (when plugging in)
n
Tolerance: +0.6 mm (in combination with Range of S:FS 0,635/MV-R- 9,0)
Tolerance: +0.6 mm (in combination with Range of s:FS 0,635/MV-R- 8,0)
Tolerance: +0.6 mm (in combination with Range of s:FS 0,635/MV-R- 5,0)
nm in longitudinal and transverse direction
n
1

Pad geometry	0.35 x 2.5 mm
Hole diameter	0.9 mm

Electrical tests

Thermal test Test group C	
Specification	IEC 60512-5-2:2002-02
Tested number of positions	60
Insulation resistance	
Specification	IEC 60512-3-1:2002-02

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1331962

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

Environmental and real-life conditions

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
Test directions	X-, Y- and Z-axis
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
mbient 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

Type of packaging32 mm wide tape[W] tape width32 mm[W2] coil overall dimension38.4 mm[A] coil diameter330 mm	Dimensional drawing	
[W2] coil overall dimension 38.4 mm	Type of packaging	32 mm wide tape
	[W] tape width	32 mm
[A] coil diameter 330 mm	[W2] coil overall dimension	38.4 mm
	[A] coil diameter	330 mm



1331962

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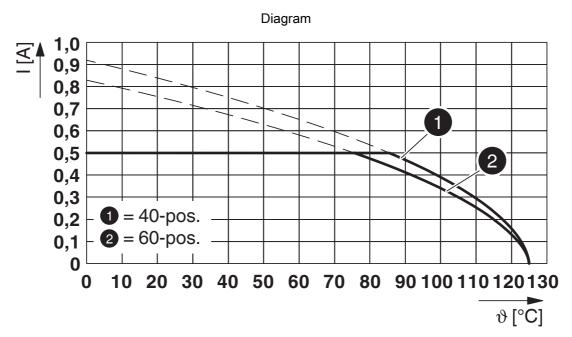
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



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Drawings



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

c 911 us	cULus Recogniz Approval ID: E118976	ed 3-20230512			
		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-12.0 27460201 ECLASS-13.0 27460201	ECLASS-11.0	27460201
ECLASS-13.0 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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