

1334089

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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	1334089
Packing unit	350 pc
Minimum order quantity	350 pc
Sales key	AA23
Product key	AAWACB
GTIN	4063151632199
Weight per piece (including packing)	1.91 g
Weight per piece (excluding packing)	1.88 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-10,0
Number of positions	20
Pitch	0.635 mm
Number of rows	2
Pin layout	Linear pad geometry

### Electrical properties

#### **Properties**

Nominal current I <sub>N</sub>	0.5 A IEC 60512-5-2:2002-02 (40-pos. / 60-pos.)
Contact resistance	70 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003-05
Rated voltage (I/1)	125 V
Rated surge voltage (I/1)	0.8 kV

#### Data transmission

Data transmission rate	20 Gbps
Data transmission rate	20 Obps

### Mounting

Mounting type	SMD soldering
Pin layout	Linear pad geometry

#### Processing notes

Process	Reflow soldering
Moisture Sensitive Level	MSL 1
Classification temperature T <sub>c</sub>	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
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Color (Housing)	black (9005)	



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Insulating material	LCP
Insulating material group	IIIb
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.
	doordance with 120 0000+ 1.

### Dimensions

Dimensional drawing	h h
Pitch	0.635 mm
Width [w]	14.22 mm
Height [h]	10.6 mm
Length [I]	6.4 mm
Installed height	10 mm

#### Application

Contact cover	0.6 mm
Center offset	± 0.5 mm in longitudinal and transverse direction
Stack height	12 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/MV-R- 5,0)
	15 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/MV-R- 8,0)
	16 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	$\pm$ 10 $^{\circ}$ in longitudinal and transverse direction (when plugging in)
	$\pm$ 2 $^{\circ}$ in longitudinal and transverse direction (when plugged in)

#### PCB design

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



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Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	≥ 5 GΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	IIIb
Minimum value for clearance and creepage distance	0.19 mm
vironmental and real-life conditions	
/ibration 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
Test directions	X-, Y- and Z-axis
Durability test	
Specification	IEC 60512-9-1:2010-03 (following)
Contact resistance R <sub>1</sub>	70 mΩ
Contact resistance R <sub>2</sub>	70 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
ckaging specifications	
Dimensional drawing	A A
Type of packaging	32 mm wide tape
[W] tape width	32 mm



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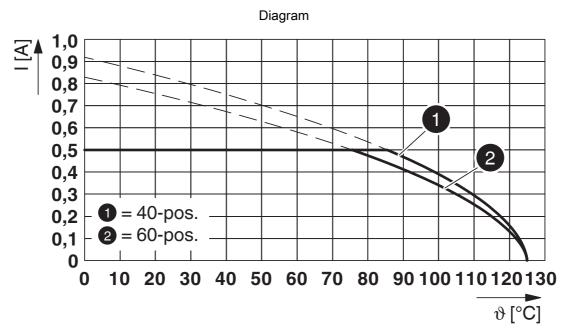
[W2] coil overall dimension	≤ 38.4 mm
[A] coil diameter	≤ 330 mm
Outer packaging type	Transparent-Bag



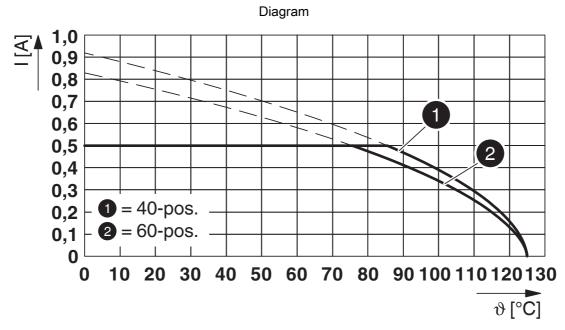
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### **Drawings**



Type: FS 0,635/...-MV-R- 9,0 with FS 0,635/...-FV-R-10,0



Type: FS 0,635/...-MV-R- 8,0 with FS 0,635/...-FV-R-10,0



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## **Approvals**

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c <b>711</b> vs	cULus Recognized Approval ID: E118976-20230512			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	29.9 V	0.5 A	-	-



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27460201
	ECLASS-15.0	27460201
ΕT	TIM	
	ETIM 9.0	EC002637
UN	ISPSC	

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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