

1332120

https://www.phoenixcontact.com/us/products/1332120

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

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



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	1332120
Packing unit	850 pc
Minimum order quantity	850 pc
Sales key	AA23
Product key	AAWGCA
GTIN	4063151629229
Weight per piece (including packing)	0.91 g
Weight per piece (excluding packing)	0.91 g
Customs tariff number	85366930
Country of origin	CN



1332120

https://www.phoenixcontact.com/us/products/1332120

Technical data

Product properties

Product type	SMD male connector
Product family	FS 0,635/MV-R- 5,0
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 (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

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

Material data - Housing	
Color (Housing)	black (9005)
Insulating material	LCP

Notes



1332120

https://www.phoenixcontact.com/us/products/1332120

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
Pitch	0.635 mm
Width [w]	13.22 mm
Height [h]	5.6 mm
Length [I]	5.2 mm
Installed height	5 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/FV-R- 4,0)
	12 mm Tolerance: +0.6 mm (in combination with Range of articles:FS 0,635/FV-R-10,0)
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 1.8 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
rested number of positions	
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	≥ 5 GΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Minimum value for clearance and creepage distance	0.19 mm
Environmental and real life conditions	

Environmental and real-life conditions



1332120

https://www.phoenixcontact.com/us/products/1332120

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 55 - 10 Hz
Sweep speed	1 octave/min
Amplitude	1.52 mm
Sweep speed	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. T.
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
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



1332120

https://www.phoenixcontact.com/us/products/1332120

Classifications

UNSPSC 21.0

ECLASS

EC	CLASS-11.0	27460201
EC	CLASS-12.0	27460201
EC	CLASS-13.0	27460201
ETIM		
ET	TIM 9.0	EC002637
UNSP	SC	

39121400



1332120

https://www.phoenixcontact.com/us/products/1332120

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com