

https://www.phoenixcontact.com/us/products/1156939



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SMD pin header, nominal current: 3 A, Test voltage: 500 V AC, number of positions: 10, pitch: 2. 54 mm, color: black, contact surface: Gold, type of contact: Male connector, mounting: SMD soldering



Your advantages

- · Reliable mechanical and electrical connections thanks to the double-sided contact system
- · Designed for integration into the SMT soldering process
- · Clear and cost-optimized design
- · Suitable for a multitude of applications
- · Stacked, coplanar or orthogonal PCB connections enable maximum flexibility in the device

Commercial Data

Item number	1156939
Packing unit	1 pc
Minimum order quantity	390 pc
Sales Key	A04
Product Key	AAXGBA
GTIN	4063151159092
Weight per Piece (including packing)	1.214 g
Weight per Piece (excluding packing)	1.214 g
Customs tariff number	85366930
Country of origin	CN



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Technical Data

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.

Product properties

Product type	SMD pin header
Number of positions	10
Pitch	2.54 mm
Number of rows	2
Pin layout	Linear pad geometry

Electrical properties

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

Dimensions

Dimensional drawing	P h
Pitch	2.54 mm
Width [w]	12.7 mm
Height [h]	6.28 mm
Length [I]	16.1 mm
Installed height	5.08 mm
Application	
Contact cover	0.4 mm
Wipe length	1.3 mm
PCB design	
Pad geometry	1.3 x 2.8 mm

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



Dimension check
Specification

Result

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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)
Material data - housing	
Housing color	black (9005)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Connection 1	
Insulating material	PA
CTI according to IEC 60112	600
Electrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-2:2002-02
Tested number of positions	80
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 1 GΩ
Air clearances and creepage distances	
Insulating material group	I
Minimum value for clearance and creepage distance	0.4 mm
Mechanical tests Insertion and withdrawal forces	
Result	Test passed
No. of cycles	100
Insertion strength per pos. approx.	2.9 N
Withdraw strength per pos. approx.	2.9 N
Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed

IEC 60512-1-2:2002-02

Test passed



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Environmental and real-life conditions

Packaging specifications

Type of packaging

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
Purability test	
Specification	IEC 60512-9-1:2010-03 (following)
Contact resistance R ₁	20 mΩ
Contact resistance R ₂	30 mΩ
Insertion/withdrawal cycles	100
Insulation resistance, neighboring positions	> 1 GΩ
mbient conditions	
Ambient temperature (operation)	-40 °C 125 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
unting	
Mounting type	SMD soldering
rocessing notes	
Process	Reflow soldering
Moisture Sensitive Level	MSL 1
Classification temperature T _c	260 °C

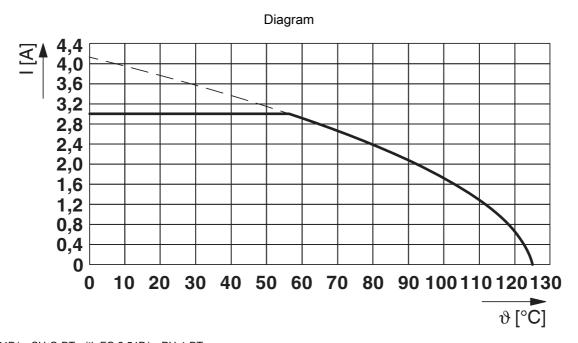
Tube magazine



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Drawings



Type: FQ 2,54D/...-SH-O-BT with FQ 2,54D/...-PH-1-BT



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Approvals

e 912 us	cULus Recognized Approval ID: E118976				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		30 V	3 A	-	-



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-9.0	27440402
	ECLASS-11.0	27460201
ET	IM	
	ETIM 8.0	EC002637
UN	ISPSC	

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Environmental Product Compliance

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



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Accessories

Socket strip

Socket strip - FQ 2,54D/ 10-SV-1020-1-BT - 1156886 https://www.phoenixcontact.com/us/products/1156886



SMD socket, nominal current: 3 A, Test voltage: 500 V AC, number of positions: 10, pitch: 2.54 mm, color: black, contact surface: Gold, type of contact: Female connector, mounting: SMD soldering

Socket strip

Socket strip - FQ 2,54D/ 10-SH-0-BT - 1156901 https://www.phoenixcontact.com/us/products/1156901



SMD socket, nominal current: 3 A, Test voltage: 500 V AC, number of positions: 10, pitch: 2.54 mm, color: black, contact surface: Gold, type of contact: Female connector, mounting: SMD soldering

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