

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, contact connection type: Pin, 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	390 pc
Minimum order quantity	390 pc
Sales key	AA24
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
Product family	FQ 2,54D/PH
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 (at 20°C 80-pos.)
Degree of pollution	3
Contact resistance	20 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003

Dimensions

Dimensional drawing	P
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

material data comment	
Note	WEEE/RoHS-compliant, free of whiskers according to IEC
	60068-2-82/JEDEC JESD 201



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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)
/laterial data - housing Color (Housing)	black (9005)
Insulating material	PA
Insulating material group	
CTI according to IEC 60112	600

Connector

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
Vigual inspection	

Visual inspection

Specification	IEC 60512-1-1:2002-02
Result	Test passed

Dimension check

Specification	IEC 60512-1-2:2002-02
Result	Test passed



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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
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	20 mΩ
Contact resistance R ₂	30 mΩ
Insertion/withdrawal cycles	100
Insulation resistance, neighboring positions	> 1 GΩ

Ambient 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

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

Packaging specifications

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Type of packaging	Tube magazine



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460201
ECLASS-13.0	27460201
ECLASS-12.0	27460201
ETIM	
ETIM 9.0	EC002637
UNSPSC	

39121400



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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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