1104548

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SMD male connector, nominal current: 1.7 A, Test voltage: 500 V AC, number of positions: 12, pitch: 0.8 mm, color: black, contact surface: Gold, contact connection type: Pin, mounting: SMD soldering

#### Your advantages

- · Gold-plated contacts ensure transfer quality remains stable over the long term
- · Reliable mechanical and electrical connections, thanks to the double-sided ScaleX contact system
- · Robustness: ScaleX technology for high tolerance compensation and protection of contacts
- · Flexible device design: various numbers of positions, designs, and stack heights with high wipe lengths

#### Commercial data

Item number	1104548
Packing unit	400 pc
Minimum order quantity	400 pc
Sales key	AA23
Product key	AAWGDA
GTIN	4063151000172
Weight per piece (including packing)	2.26 g
Weight per piece (excluding packing)	2.22 g
Customs tariff number	85366930
Country of origin	CN

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#### Technical data

#### **Product properties**

Product type	SMD male connector
Product family	FP 0,8/MH
Number of positions	12
Pitch	0.8 mm
Number of rows	2
Pin layout	Linear pad geometry

#### **Electrical properties**

Nominal current I <sub>N</sub>	1.7 A (at 20°C 80-pos.)
Degree of pollution	3
Contact resistance	25 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003

#### Mounting

Mounting type	SMD soldering
Pin layout	Linear pad geometry
Processing notes	
Dragona	Deflow coldering

# Process Reflow soldering Moisture Sensitive Level MSL 1 Classification temperature T<sub>c</sub> 260 °C

#### 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		

150

V0

CTI according to IEC 60112

Flammability rating according to UL 94

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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.
Details for soldering processes	The items are suitable for assembly on both sides and for overhead soldering.

#### Dimensions

Dimensional drawing	
Pitch	0.8 mm
Width [w]	9.2 mm
Height [h]	7.05 mm
Length [I]	8.85 mm
Installed height	6.45 mm

#### Application

0.8 mm
± 0.7 mm in longitudinal and transverse direction
1.5 mm
$\pm$ 5 $^{\circ}$ in longitudinal and transverse direction (when plugging in)
$\pm$ 5 $^{\circ}$ in longitudinal and transverse direction (when plugged in)
$\pm$ 0.3 mm (Tolerance compensation when plugged in)
$\pm$ 0.3 mm (Tolerance compensation when plugged in)
0.5 x 2.5 mm
0.5 x 2.7 mm

#### Electrical tests

Thermal test   Test group C			
IEC 60512-5-2:2002-02			
80			
Insulation resistance			
IEC 60512-3-1:2002-02			
≥ 5 GΩ			
Air clearances and creepage distances			
llib			
0.25 mm			

Environmental and real-life conditions



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ESD level

Specification

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Specification	IEC 60068-2-6:2007-12
Frequency	10 - 2000 - 10 Hz
Sweep speed	1 octave/min
Amplitude	1.5 mm (10 Hz 58 Hz)
Sweep speed	200 m/s² (58 Hz 2000 Hz)
Test duration per axis	2.5 h
Purability test	
Specification	IEC 60512-9-1:2010-03 (following)
Contact resistance R <sub>1</sub>	25 mΩ
Contact resistance R <sub>2</sub>	25 mΩ
Insertion/withdrawal cycles	500
hocks	
Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	490 m/s²
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
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
ckaging specifications	
Dimensional drawing	
Type of packaging	24 mm wide tape
[W] tape width	24 mm
[W2] coil overall dimension	30.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag

(D) electrostatically conductive

DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



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#### Classifications

#### ECLASS

ECLASS-11.0	27460201
ECLASS-12.0	27460201
ECLASS-13.0	27460201

#### ETIM

	ETIM 9.0	EC002637		
U	UNSPSC			
	UNSPSC 21.0	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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