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SMD female connector, nominal current: 1.4 A, Test voltage: 500 V AC, number of positions: 50, pitch: 1.27 mm, color: black, contact surface: Gold, contact connection type: Socket, mounting: SMD soldering

Your advantages

- · Gold-plated contacts ensure transfer quality remains stable over the long term
- · Compact, high-position board-to-board or wire-to-board connectors for space-saving device designs
- · Stacked, coplanar or orthogonal PCB connections enable maximum flexibility in the device
- Male and female connectors of different height can be combined for individual PCB spacing of 8 mm ... 13.8 mm

Commercial data

Item number	1714898
Packing unit	1 pc
Minimum order quantity	280 pc
Sales key	AA24
Product key	AAXAAB
GTIN	4055626402772
Weight per piece (including packing)	3.15 g
Weight per piece (excluding packing)	3.15 g
Customs tariff number	85366930
Country of origin	CN

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Technical data

Product properties

Product type	SMD female connector
Product family	FR 1,27/FV 6,25
Number of positions	50
Pitch	1.27 mm
Number of rows	2
Number of potentials	50
Pin layout	Linear pad geometry

Electrical properties

Nominal current I _N	1.4 A IEC 60512-5-2:2002-02 (at 20°C 50-pos.)
Nominal voltage U _N	AC
Degree of pollution	3
Contact resistance	25 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003
Rated voltage (III/3)	500 V
Rated voltage (II/2)	10 V
Rated surge voltage (II/2)	0.8 kV

Mounting

Mounting type	SMD soldering
Pin layout	Linear pad geometry
Processing notes	
Process	Reflow soldering
Process Moisture Sensitive Level	Reflow soldering MSL 1

Material specifications

Naterial 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) Palladium nickel, (PdNi)
Metal surface soldering area (top layer)	Tin (Sn)
laterial data - housing	
Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIb

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CTI according to IEC 60112	175
Flammability rating according to UL 94	V0
es	
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 accordance with IEC 60664-1.
nensions	
Dimensional drawing	th pt
Pitch	1.27 mm
Width [w]	36.84 mm
Height [h]	6.95 mm
Length [I]	7.2 mm
Installed height	6.25 mm
pplication	
Contact cover	0.9 mm
Center offset	± 0.7 mm in longitudinal and transverse direction
Stack height	8 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 1,27/MV 1,75)
	9.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 1,27/MV 3,25)
Wipe length	1.5 mm
Angular tolerance	± 4 ° in longitudinal direction
	± 2 ° in transverse direction
CB design	
Pad geometry	0.8 x 1.1 mm
Pin spacing	1.27 mm

Insertion and withdrawal forces

Result	Test passed
No. of cycles	500
Insertion strength per pos. approx.	0.5 N
Withdraw strength per pos. approx.	0.5 N
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed

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Visual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
	IEC 60512-1-2:2002-02
Specification	
Result	Test passed
Electrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-2:2002-02
Tested number of positions	50
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	≥ 10 GΩ
Air clearances and creepage distances	
Insulating material group	IIIb
Comparative tracking index (IEC 60112)	CTI 175
Rated insulation voltage (III/3)	500 V
Rated insulation voltage (II/2)	10 V
Rated surge voltage (II/2)	0.8 kV
minimum clearance value - non-homogenous field (II/2)	0.4 mm
minimum creepage distance (II/2)	0.4 mm
Minimum value for clearance and creepage distance	0.4 mm

Environmental and real-life conditions

Vibration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 2000 - 10 Hz
Sweep speed	1 octave/min
Amplitude	1.5 mm (10 Hz 60.1 Hz)
Sweep speed	20g (60.1 Hz 2000 Hz)
Test duration per axis	2.5 h

Durability test

Specification	IEC 60512-9-1:2010-03 (following)
Impulse withstand voltage at sea level	0.8 kV
Contact resistance R ₁	25 mΩ
Contact resistance R ₂	25 mΩ
Insertion/withdrawal cycles	500
Insulation resistance, neighboring positions	≥ 10 GΩ

Climatic test



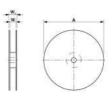
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Specification	IEC 60512-11-7:2003-05
Corrosive stress	Method 1, 10 days
Power-frequency withstand voltage	500 V AC
Shocks	
Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	50g
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
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



Type of packaging	56 mm wide tape
[W] tape width	56 mm
[W2] coil overall dimension	62.4 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

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Approvals

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CULus Recognized Approval ID: E118976-20170331



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Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC002637		
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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