

1043786

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shielded 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	1043786
Packing unit	1 pc
Minimum order quantity	500 pc
Sales key	AA23
Product key	AAWJDB
GTIN	4055626616155
Weight per piece (including packing)	1.69 g
Weight per piece (excluding packing)	1 g
Customs tariff number	85366930
Country of origin	CN



1043786

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Technical data

Product properties

Product type	shielded SMD male connector
Product family	FP 0,8/MV-SH 1,15
Number of positions	12
Pitch	0.8 mm
Number of rows	2
Number of potentials	12
Pin layout	Linear pad geometry
Electrical characteristic	shielded

Electrical properties

Nominal current I _N	1.7 A IEC 60512-5-2:2002-02 (at 20°C 52-pos.)
Degree of pollution	3
Contact resistance	20 mΩ
Test voltage	500 V AC IEC 60512-4-1:2003
Electrical characteristic	shielded

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

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
CTI according to IEC 60112	150



1043786

https://www.phoenixcontact.com/us/products/1043786

Flammability rating according to UL 94	V0
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.
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]	8.7 mm
Height [h]	5.65 mm
Length [I]	6.1 mm
Installed height	5.65 mm

Application

Contact cover	0.8 mm
Center offset	± 0.7 mm in longitudinal and transverse direction
Stack height	6 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/FV-SH 4,85)
	9 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/FV-SH 7,85)
	12 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/FV-SH 10,85)
Wipe length	1.5 mm
Angular tolerance	± 5 ° in longitudinal and transverse direction (when plugging in)
	± 5 ° in longitudinal and transverse direction (when plugged in)
Axial offset in X direction (longitudinal)	± 0.3 mm (Tolerance compensation when plugged in)
Axial offset in Y direction (transversal)	± 0.3 mm (Tolerance compensation when plugged in)
CB design	
Pad geometry	0.5 x 1.1 mm

Electrical tests

Insulation	resistance
insulation	resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	≥ 5 GΩ
Air clearances and creepage distances	
Insulating material group	IIIb



1043786

https://www.phoenixcontact.com/us/products/1043786

Minimum value for clearance and creepage distance	0.25 mm
ironmental and real-life conditions	
ibration 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	200 m/s² (58 Hz 2000 Hz)
Test duration per axis	2.5 h
Durability test	
Specification	IEC 60512-9-1:2010-03 (following)
Contact resistance R ₁	20 mΩ
Contact resistance R ₂	20 mΩ
Insertion/withdrawal cycles	500
Shocks	
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.)
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

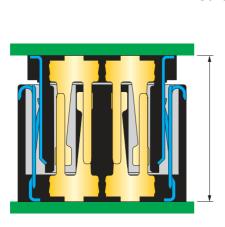
Dimensional drawing	
Type of packaging	24 mm wide tape
[W] tape width	24.4 mm
[W2] coil overall dimension	30.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



1043786

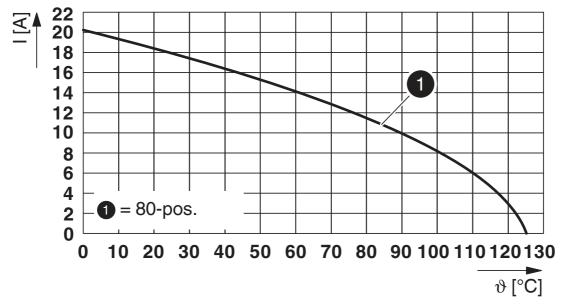
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Drawings



Schematic diagram

Diagram

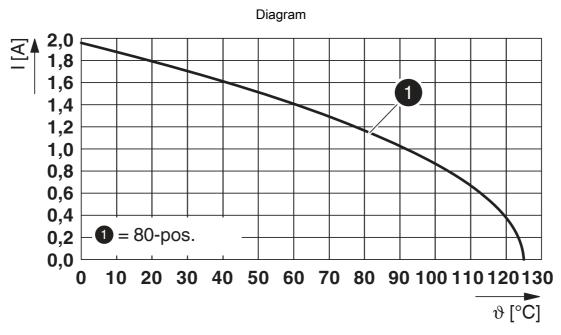


Type: FP 0,8/...-MV-SH 1,15 with FP 0,8/...-FV-SH 10,85 - shroud



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Type: FP 0,8/...-MV-SH 1,15 with FP 0,8/...-FV-SH 10,85 - contacts



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Approvals

№ To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1043786





cULus Recognized Approval ID: E118976-20190703



1043786

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Classifications

ECLASS

ECLASS-12.0 27460201 ECLASS-13.0 27460201	ECLASS-11.0	27460201
ECLASS-13.0 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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Mandatory accessories

FP 0,8/ 12-FV-SH 10,85 - SMD female connector shielded

1154031

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Shielded SMD female 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: Socket, mounting: SMD soldering

FP 0,8/ 12-FH-SH - SMD female connector shielded

1043722

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Shielded SMD female 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: Socket, mounting: SMD soldering



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FP 0,8/ 12-FV-SH 4,85 - SMD female connector shielded

1043710

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Shielded SMD female 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: Socket, mounting: SMD soldering

FP 0,8/ 12-FV-SH 7,85 - SMD female connector shielded

1043682

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Shielded SMD female 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: Socket, mounting: SMD soldering

Accessories



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FP 0,8/ 12-FV-SH 4,85 - SMD female connector shielded

1043710

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Shielded SMD female 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: Socket, mounting: SMD soldering

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