

1043786

https://www.phoenixcontact.com/us/products/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	500 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



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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 (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



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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 requirement accordance with IEC 60664-1.
Details for soldering processes	The items are suitable for assembly on both sides and for overhead soldering.
nensions	
Dimensional drawing	h ph
Pitch	0.8 mm
Width [w]	8.7 mm
Height [h]	6.25 mm
Length [I]	6.1 mm
Installed height	5.65 mm
pplication	
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
ctrical tests	
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	≥ 5 GΩ
ir clearances and creepage distances	
Insulating material group	IIIb
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Minimum value for clearance and creepage distance	0.25 mm
ronmental and real-life conditions	
bration 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)
Acceleration	200 m/s² (58 Hz 2000 Hz)
Test duration per axis	2.5 h
urability 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
nocks	
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.)
nbient 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
kaging specifications	
Dimensional drawing	
	w A

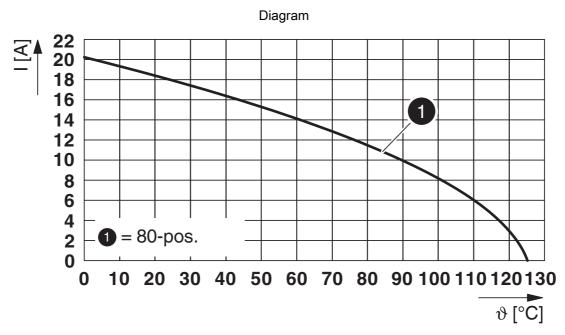
Type of packaging	24 mm wide tape
[W] tape width	24.4 mm
[W2] coil overall dimension	30.4 mm
[A] coil diameter	330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07



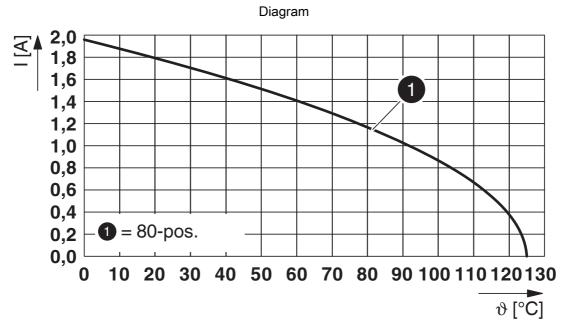
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Drawings



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



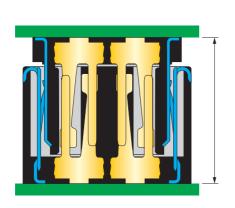
Type: FP 0,8/...-MV-SH 1,15 with FP 0,8/...-FV-SH 10,85 - contacts

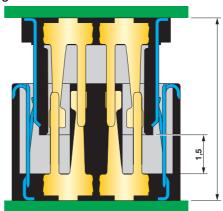


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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1043786



EAC

Approval ID: B.00511/19



cULus RecognizedApproval ID: E118976-20190703



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27460201
	ECLASS-12.0	27460201
	ECLASS-13.0	27460201
ETIM		
<u> </u>	IIVI	
	ETIM 8.0	EC002637
LIN	ISPSC	
OI.	101 00	

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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%



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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

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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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