

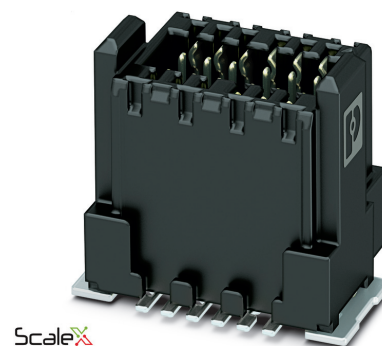
Data sheet

2020-02-18
Product version 00
Document revision 01

Order No.: 1061698

Type: FP 0,8/ 32-MV 2,65

SMD male connector, Reflow soldering



ScaleX

The figure shows a 12-pos. version with 12 contacts

1 Main features



- | | | | |
|----------------|--------------|------------------------|-----------------|
| • No. of pos. | 32 | • Nominal current | 1.7 A |
| • Test voltage | 500 V AC | • Mounting type | SMD soldering |
| • Color | black (9005) | • Connection direction | 90 ° |
| • Pitch | 0.8 mm | • Type of packaging | 32 mm wide tape |

2 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



Make sure you always use the latest documentation.
It can be downloaded at: phoenixcontact.net/product/1061698

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1061698 FP 0,8/ 32-MV 2,65

4 3D model in PDF can be activated (Acrobat Reader only)



1061698 FP 0,8/ 32-MV 2,65**5 General Technical Data****5.1 item properties**

Order No.	1061698
Type	FP 0,8/ 32-MV 2,65
Plug-in system	FINEPITCH 0,8 mm
Product type	SMD male connector
Type of contact	Male connector
Range of articles	FP 0,8/...-MV 2,65
Pitch	0.8 mm
Range of positions	12...80
Number of positions	32
Number of levels	2
Number of potentials	32
Mounting type	SMD soldering
Connection direction of the connector to the PCB	90 °
Pin layout	Linear pad geometry

5.2 Material data

Material of metal parts	
Note	WEEE/RoHS-compliant, whisker-free acc. to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface contact area	Nickel (Ni), , Gold (Au)
Soldering area surface	Nickel (Ni) , Tin (Sn)
Surface characteristics	Selective coating
Insulating material data	
Insulating material	LCP
Insulating material group	IIIa
CTI according to IEC 60112	150
Flammability rating according to UL 94	V0
Color	black (9005)

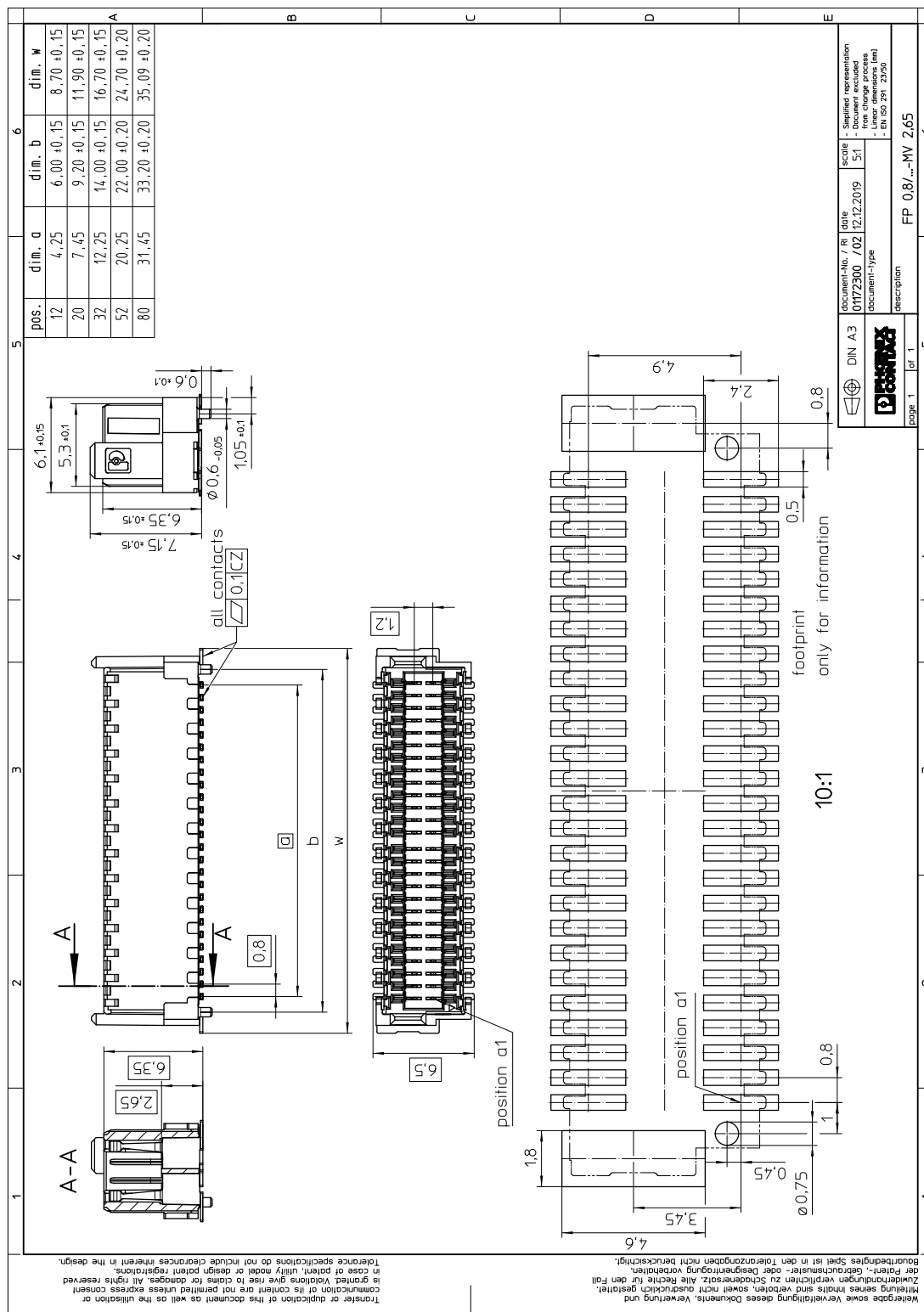
1061698 FP 0,8/ 32-MV 2,65**6 Dimensions****6.1 Dimensions for the product**

Length	6.1 mm
Width	16.7 mm
Total height	7.75 mm
Height	7.15 mm
Positioning pin geometry	, Length of positioning pin: 0.6 mm
Coplanarity	≤ 0.1 mm

6.2 Dimensions for the application

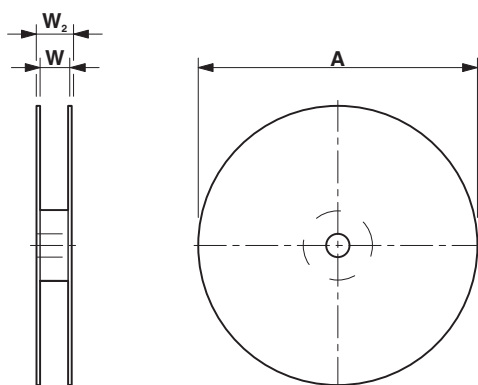
Contact cover	0.8 mm
Overlap length	1.5 mm
Medium offset	± 0.7 mm in longitudinal and transverse direction
Angular tolerance	± 2 ° in longitudinal direction
Angular tolerance	± 4 ° in transverse direction
Stacking height	7.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/...-FV 4,85)
Stacking height	10.5 mm Tolerance: +1,5 mm (in combination with Range of articles:FP 0,8/...-FV 7,85)

7 Series drawing



1061698 FP 0,8/ 32-MV 2,65**8 Packaging information**

Type of packaging	32 mm wide tape
Note on packaging	Tape-on-reel packaging in accordance with standard DIN EN 60286-3 and EIA-481
Pieces per package	250
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07
[W] tape width	32.4 mm
[A] coil diameter	330 mm
[W2] coil overall dimension	40.4 mm
Number of products per coil	250



9 Blister drawing



1061698 FP 0,8/ 32-MV 2,65

10 Application

10.1 Temperature limit values

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-55 °C ... 125 °C

1061698 FP 0,8/ 32-MV 2,65

11 General tests

11.1 Specification

Brief description

Board-to-board connectors

1061698 FP 0,8/ 32-MV 2,65**12 Mechanical tests****12.1 Insertion and withdrawal force per contact**

Insertion and withdrawal force per contact	$\leq 0.6 \text{ N}$
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12.2 Service life

Specification	IEC 60512-9-1:2010-03 (following)
Service life	500 Insertion/withdrawal cycles, Performance level 1

1061698 FP 0,8/ 32-MV 2,65**13 Electrical tests****13.1 Electrical data**

Nominal current at 20 °C	1.7 A (52-pos.)
Test voltage	500 V AC IEC 60512-4-1:2003

13.2 Air and creepage distances

Minimum value for clearance and creepage distance	0.25 mm
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1061698 FP 0,8/ 32-MV 2,65**14 Current carrying capacity/derating curves****14.1 Insulation resistance**

Insulation resistance	$\geq 5 \text{ G}\Omega$, (IEC 60512-3-1:2002-02)
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14.2 forward resistance

Contact resistance	$\leq 20 \text{ m}\Omega$, (IEC 60512-2-1:2002-02)
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14.3 Vibration test

Specification	IEC 60068-2-6:2007-12
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Result	Test passed
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Frequency	10 - 2000 - 10 Hz
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Sweep speed	1 octave/min
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Amplitude	1.5 mm (10 - 60.1 Hz)
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Acceleration	200 m/s^2 (58 - 2000 Hz)
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Test duration per axis	2.5 h
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Test directions	X-, Y- and Z-axis
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Note	
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14.4 Shock test

Specification	IEC 60068-2-27:2008-02
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Result	Test passed
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Pulse shape	Semi-sinusoidal
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Peak acceleration	490 m/s^2
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Shock duration	11 ms
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Number of shocks per direction	3
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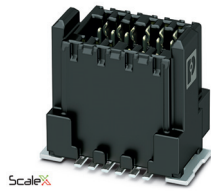
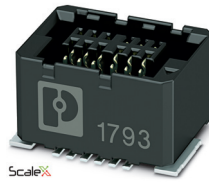
Test directions	X-, Y- and Z-axis (pos. and neg.)
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1061698 FP 0,8/ 32-MV 2,65

15 Approvals / Certificates

1061698 FP 0,8/ 32-MV 2,65**16 Commercial Data**

Order No.	1061698
Type	FP 0,8/ 32-MV 2,65
Pieces per package	250
Net weight	0 g
GTIN	4055626715872
	Information that applies locally, see link on page 1
Country of origin	Information that applies locally, see link on page 1

1061698 FP 0,8/ 32-MV 2,65**17 Combination tests****FP 0,8/...-MV 2,65****FP 0,8/...-FV 4,85****FP 0,8/...-FV 7,85**

Mechanical tests				
Durability tests				
Contact resistance R_1	20 m Ω	20 m Ω		
Insertion/withdrawal cycles	500	500		
Contact resistance R_2	20 m Ω	20 m Ω		
Thermal tests				

单击下面可查看定价，库存，交付和生命周期等信息

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