

# SMD male connector, shielded - FP 0,8/ 52-MV-SH 1,15 - 1043789

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shielded SMD male connector, Nominal current at 20 °C: 1.4 A, Test voltage: 500 V AC, number of positions: 52, pitch: 0.8 mm, color: black, contact surface: Gold, mounting: SMD soldering

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

#### Your advantages

- Gold-plated contacts ensure transfer quality remains stable over the long term
- If 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



### Key Commercial Data

| Packing unit           | 500 pc          |
|------------------------|-----------------|
| Minimum order quantity | 500 pc          |
| GTIN                   | 4 055626 608372 |
| GTIN                   | 4055626608372   |

# Technical data

#### Item properties

| Brief article description | SMD male connector, shielded |
|---------------------------|------------------------------|
| Plug-in system            | Fine Pitch 0,8 mm            |
| Type of contact           | Male connector               |
| Electrical characteristic | shielded                     |
| Range of articles         | FP 0,8/MV-SH 1,15            |
| Pitch                     | 0.8 mm                       |
| Number of positions       | 52                           |
| Mounting type             | SMD soldering                |
| Number of levels          | 2                            |

Electrical data



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# Technical data

### Electrical data

| Nominal current at 20 °C | 1.4 A (52-pos.)                 |
|--------------------------|---------------------------------|
| Test voltage             | 500 V AC IEC 60512-4-1:2003     |
| Contact resistance       | ≤20 mΩ, (IEC 60512-2-1:2002-02) |
| Insulation resistance    | ≥ 5 GΩ, (IEC 60512-3-1:2002-02) |

#### Material data - contact

| Note  | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/<br>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

| Insulating material                    | LCP  |
|--|------|
| Insulating material group              | Illa |
| CTI according to IEC 60112             | 150  |
| Flammability rating according to UL 94 | V0   |

#### Dimensions for the product

| Length [1]                  | 6.1 mm   |
|-----------------------------|----------|
| Width [ w ]                 | 24.7 mm  |
| Height [ h ]                | 5.65 mm  |
| Pitch                       | 0.8 mm   |
| Height (without solder pin) | 1.15 mm  |
| Coplanarity                 | ≤ 0.1 mm |
| Dimension a                 | 20.25 mm |

#### 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                                  |
| Stack height      | 6 mm Tolerance: +1,5 mm (in combination with Range of articles:) |
| ×                 | 9 mm Tolerance: +1,5 mm (in combination with Range of articles:) |

### Packaging information

| Type of packaging          | 44 mm wide tape |
|----------------------------|-----------------|
| Pieces per package         | 500             |
| Denomination packing units | Pcs.            |
| [W] tape width             | 44.4 mm         |
| [A] coil diameter          | 330 mm          |



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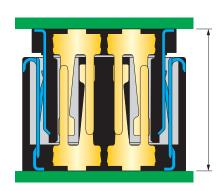
# Technical data

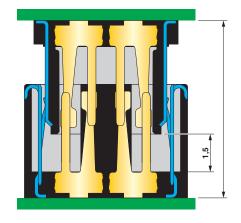
## Packaging information

| [W2] coil overall dimension                | 50.4 mm  |
|--|--|
| Outer packaging type                       | Transparent-Bag                                      |
| Ambient conditions                         |  |
| Ambient temperature (operation)            | -55 °C 125 °C  |
| Mechanical tests                           |  |
| Insertion and withdrawal force per contact | ≤ 1.2 N  |
| Air clearances and creepage distances      |  |
| Air clearances and creepage distances      | min. 0.25 mm   |
| Service life                               |  |
| Service life                               | 500 Insertion/withdrawal cycles, Performance level 1 |

# Drawings

#### Schematic diagram





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