Fuseholder Open Design, 5 x 20 mm, SMD, var. Covers, IEC 60335-1

**Description**
- For appliances in unattended use

**Unique Selling Proposition**
- Suitable for fully automated PCD assembling
- Available with blister tape packaging
- Small design height
- Available preassembled with fuses

**Technical Data**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shock-Safe Category</td>
<td>PC1</td>
</tr>
<tr>
<td>Fuse-Link</td>
<td>5 x 20 mm</td>
</tr>
<tr>
<td>Mounting</td>
<td>SMD</td>
</tr>
<tr>
<td>Terminal</td>
<td>SMD</td>
</tr>
<tr>
<td>Rated Voltage</td>
<td>500 V (VDE), 500 V (UL/CSA)</td>
</tr>
<tr>
<td>Rated Power Acceptance IEC</td>
<td>4 W / 10 A @ Ta 23 °C, 2.5 W / 10 A with black cover, see derating curves</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>IP 20 (with cover)</td>
</tr>
<tr>
<td>Protection Class</td>
<td>Suitable for appliances with protection class I, acc. to IEC 61140</td>
</tr>
<tr>
<td>Admissible Ambient Air Temp.</td>
<td>-40 °C to 85 °C</td>
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<tr>
<td>Climatic Category</td>
<td>40/0/85/21 acc. to IEC 60068-1</td>
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<tr>
<td>Material: Socket</td>
<td>see variants</td>
</tr>
<tr>
<td>Material: Cover</td>
<td>Thermoplastic UL 94V-0</td>
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<tr>
<td>Material: Terminals</td>
<td>Tin-Plated Copper Alloy</td>
</tr>
<tr>
<td>Unit Weight</td>
<td>1.7 g</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>0 °C to 60 °C, max. 70% r.h.</td>
</tr>
<tr>
<td>Product Marking</td>
<td>E, Type, Rated Voltage, Rated current, Power Rating, Certification marks</td>
</tr>
</tbody>
</table>

**Approvals and Compliances**

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals.

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.
Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: OGN-SMD

<table>
<thead>
<tr>
<th>Approval Logo</th>
<th>Certificates</th>
<th>Certification Body</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
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<td>VDE Approvals</td>
<td>VDE</td>
<td>VDE Certificate Number: 40001042</td>
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<td>VDE Approvals</td>
<td>VDE</td>
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<td>UL Approvals</td>
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<td>UL File Number: E39328</td>
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</table>

Product standards

Product standards that are referenced

<table>
<thead>
<tr>
<th>Organization</th>
<th>Design</th>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC</td>
<td>Designed according to</td>
<td>IEC 60127-6</td>
<td>Miniature fuses. Part 6. Fuse-holders for miniature fuse-links</td>
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<tr>
<td>UL</td>
<td>Designed according to</td>
<td>UL 4248-1</td>
<td>Fuseholder general requirements</td>
</tr>
<tr>
<td>CSA</td>
<td>Designed according to</td>
<td>CSA C22.2 no. 4248.1</td>
<td>Fuseholder general requirements</td>
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Application standards

Application standards where the product can be used

<table>
<thead>
<tr>
<th>Organization</th>
<th>Design</th>
<th>Standard</th>
<th>Description</th>
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<tbody>
<tr>
<td>IEC</td>
<td>Designed for applications acc.</td>
<td>IEC/UL 60950</td>
<td>IEC 60950-1 includes the basic requirements for the safety of information technology equipment.</td>
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<tr>
<td>IEC</td>
<td>Designed for applications acc.</td>
<td>IEC 60335-1</td>
<td>Safety of electrical appliances for household and similar purposes. Meets the requirements for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-11 or -12 &amp; -13.</td>
</tr>
</tbody>
</table>

Compliances

The product complies with following Guide Lines

<table>
<thead>
<tr>
<th>Identification</th>
<th>Details</th>
<th>Initiator</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>CE declaration of conformity</td>
<td>SCHURTER AG</td>
<td>The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.</td>
</tr>
<tr>
<td></td>
<td>RoHS</td>
<td>SCHURTER AG</td>
<td>Directive RoHS 2011/65/EU, Amendment (EU) 2015/838</td>
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<tr>
<td></td>
<td>China RoHS</td>
<td>SCHURTER AG</td>
<td>The law SJ / T 11363-2008 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.</td>
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<tr>
<td></td>
<td>White paper Glow wire test</td>
<td>SCHURTER AG</td>
<td>Meets the requirements of IEC 60335-1 for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-11 or -12 &amp; -13.</td>
</tr>
</tbody>
</table>

Dimension [mm]

| 22.7 | 12 | 13.2 | 9.6 | 25 |

Soldering pads
Derating Curves

With Transparent Cover

Admissible Power Acceptance in Watt

Ambient Air Temperature Ta °C

Admissible Power Acceptance in Watt

Ambient Air Temperature Ta °C
## Order numbers for pre-assembled OGN-SMD, blister tape packaging with 400 pieces per reel

<table>
<thead>
<tr>
<th>Current (mA)</th>
<th>FT 5x20 with reflow cover</th>
<th>FT 5x20 no cover</th>
<th>FST 5x20 with reflow cover</th>
<th>FST 5x20 no cover</th>
<th>FSF 5x20 with reflow cover</th>
<th>FSF 5x20 no cover</th>
<th>SMD-SPT 5x20 with reflow cover</th>
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<td>100 mA</td>
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<td>200 mA</td>
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<td>500 mA</td>
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</tr>
</tbody>
</table>

All fuses in the pre-assembled OGN-SMD fuseholders are suitable for the reflow solder process.
### All Variants

<table>
<thead>
<tr>
<th>Holder</th>
<th>Material: Terminals</th>
<th>Reflow Condition</th>
<th>Packaging</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Thermoplastic</em></td>
<td>Tin-Plated Copper Alloy</td>
<td>acc. to JEDEC J-STD-5200, Tp=245 +0/-5 °C, tp = max. 30 s</td>
<td>Bulk 128 x 91 x 60 mm (100 pcs.)</td>
<td>0031.8221</td>
</tr>
<tr>
<td><em>Thermoplastic</em></td>
<td>Tin-Plated Copper Alloy</td>
<td>acc. to JEDEC J-STD-5200, Tp=245 +0/-5 °C, tp = max. 30 s</td>
<td>Blister Tape 38 cm Reel (400 pcs.)</td>
<td>0031.8225</td>
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<tr>
<td><em>Thermoplastic</em></td>
<td>Tin-Plated Copper Alloy</td>
<td>acc. to JEDEC J-STD-5200, Tp=260 +0/-5 °C, tp = max. 30 s</td>
<td>Blister Tray 266 x 174 mm (500 pcs.)</td>
<td>0031.8222</td>
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<td><em>Spec. Thermoplastic</em></td>
<td>Tin-Plated Copper Alloy</td>
<td>acc. to JEDEC J-STD-5200, Tp=260 +0/-5 °C, tp = max. 30 s</td>
<td>Bulk 128 x 91 x 60 mm (100 pcs.)</td>
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<td>Blister Tray 266 x 174 mm (500 pcs.)</td>
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<td>Blister Tray 266 x 174 mm (500 pcs.)</td>
<td>0031.8274</td>
</tr>
</tbody>
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#### Most Popular.

Availability for all products can be searched real-time: https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

The fuseholder is suitable for use in equipment according to IEC 60335-1.

Fuseholders with gold-plated terminals are more heat resistant than fuseholders with tin-plated terminals.

If soldering problems occur with the thermoplastic version, it is recommended to use the spec. thermoplastic with tin-plated and gold-plated terminals.

#### Packaging Unit

see variants

#### Accessories

<table>
<thead>
<tr>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Covers for OGN, OGN-SMD</td>
</tr>
<tr>
<td>Cover for Holder OGN, OGN-SMD</td>
</tr>
<tr>
<td>Adapter to OGN, OGN-SMD</td>
</tr>
<tr>
<td>Fuse Carriage with Handle for OGN, OGN-SMD</td>
</tr>
</tbody>
</table>