

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



250 VAC · 4 W / 10 A (VDE) · 500 VAC/DC · 10 A (UL/CSA)

**Description**

- For appliances in unattended use
- Glow wire tests acc. to IEC 60695-2-12 and -13
- Low profile fuse block with insulation walls

**Standards**

- IEC 60127-6
- UL 4248-1 / UL 512
- CSA C22.2 no. 39

**Approvals**

- VDE Certificate Number: 40001042
- UL File Number: E39328
- CSA File Number: 38456

**Applications**

- Industrial electronic
- Household appliances

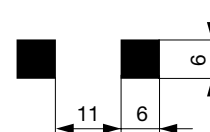
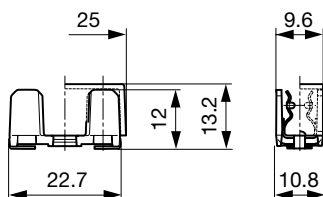
**References**[Packaging Details](#)**Weblinks**

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Accessories](#), [Detailed request for product](#)

**Technical Data**

|                              |                                                                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Fuse-Link                    | 5 x 20 mm                                                                                                                                           |
| Mounting                     | PCB                                                                                                                                                 |
| Terminal                     | Solder SMT                                                                                                                                          |
| Rated Voltage                | 250 VAC (VDE), 500 VAC/DC (UL/CSA)                                                                                                                  |
| Rated current                | 10 A (VDE), 10 A (UL/CSA)                                                                                                                           |
| Rated Power Acceptance IEC   | 4 W / 10 A @ Ta 23 °C<br>2.5 W / 10 A with transparent cover, see derating curves                                                                   |
| Degree of Protection         | IP 00 / IP 20                                                                                                                                       |
| Protection Class             | Suitable for appliances with protection class I or II acc. to IEC 61140                                                                             |
| Admissible Ambient Air Temp. | -40 °C to 85 °C                                                                                                                                     |
| Climatic Category            | 40/085/21 acc. to IEC 60068-1                                                                                                                       |
| Material: Socket             | see variants                                                                                                                                        |
| Material: Cover              | Thermoplastic UL 94V-0                                                                                                                              |
| Material: Terminals          | Tin-Plated Copper Alloy                                                                                                                             |
| Unit Weight (Socket/Cap)     | 1.7 g                                                                                                                                               |
| Storage Conditions           | 0 °C to 60 °C, max. 70% r.h.                                                                                                                        |
| Product Marking              |  Type, Dielectric strength, Power Acc./Current Rating, Approvals |

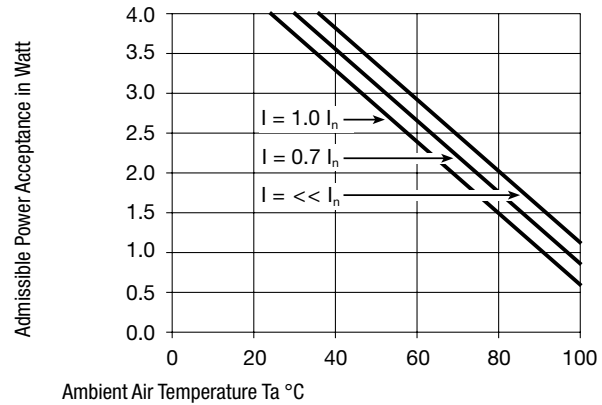
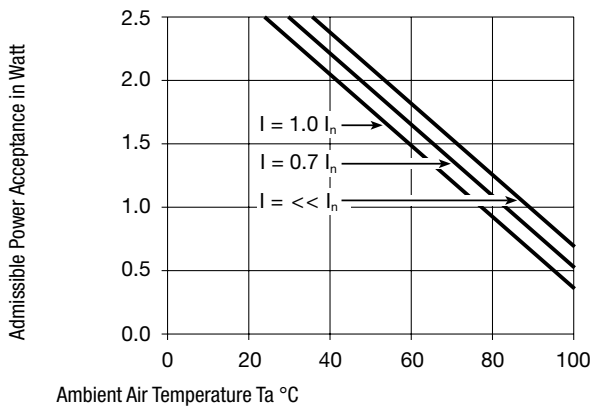
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|------------------------------|---------------------------------------------------------|
| Soldering Methods            | Reflow (see variants)                                   |
| Solderability                | 245 °C / 3 sec acc. to IEC 60068-2-58, Test Td          |
| Resistance to Soldering Heat | 240 - 260 °C / 20 - 40 sec acc. to IPC/JEDEC J-STD-020C |
| Contact Resistance           | < 5 mΩ at 20 mV                                         |
| Dielectric Strength          | > 3 kV<br>(50 Hz; 1 min)                                |
| Impulse Withstand Voltage    | > 4 kV between L-N                                      |
| Insulation Resistance        | > 10 MΩ between L-N<br>(500 VDC; 1 min)                 |
| Overvoltage Category         | I - III acc. to IEC 60664-1                             |
| Pollution Degree             | 1 - 3 acc. to IEC 60664-1                               |
| Resistance to Vibration      | acc. to IEC 60068-2-6, test Fc                          |

**Dimensions**

Soldering pads

### Derating Curves

With Transparent Cover



### Variants

| Holder | Material            | Material: Terminals      | Reflow Condition                                                 | Packaging                            | Order Number |
|--------|---------------------|--------------------------|------------------------------------------------------------------|--------------------------------------|--------------|
| ●      | Thermoplastic       | Tin-Plated Copper Alloy  | acc. to JEDEC J-STD-020C, $T_p=240 \pm 0/-5$ °C, $t_p = 20-40$ s | Bulk 128 x 91 x 60 mm (100 pcs.)     | 0031.8221    |
| ●      | Thermoplastic       | Tin-Plated Copper Alloy  | acc. to JEDEC J-STD-020C, $T_p=240 \pm 0/-5$ °C, $t_p = 20-40$ s | Blister Tape 38 cm Reel (400 pcs.)   | 0031.8225    |
| ●      | Thermoplastic       | Tin-Plated Copper Alloy  | acc. to JEDEC J-STD-020C, $T_p=240 \pm 0/-5$ °C, $t_p = 20-40$ s | Blister Tray 266 x 173 mm (500 pcs.) | 0031.8222    |
| ●      | Spec. Thermoplastic | Tin-Plated Copper Alloy  | acc. to JEDEC J-STD-020C, $T_p=260 \pm 0/-5$ °C, $t_p = 20-40$ s | Bulk 128 x 91 x 60 mm (100 pcs.)     | 0031.8263    |
| ●      | Spec. Thermoplastic | Tin-Plated Copper Alloy  | acc. to JEDEC J-STD-020C, $T_p=260 \pm 0/-5$ °C, $t_p = 20-40$ s | Blister Tape 38 cm Reel (400 pcs.)   | 0031.8265    |
| ●      | Spec. Thermoplastic | Tin-Plated Copper Alloy  | acc. to JEDEC J-STD-020C, $T_p=260 \pm 0/-5$ °C, $t_p = 20-40$ s | Blister Tray 266 x 173 mm (500 pcs.) | 0031.8264    |
| ●      | Spec. Thermoplastic | Gold-Plated Copper Alloy | acc. to JEDEC J-STD-020C, $T_p=260 \pm 0/-5$ °C, $t_p = 20-40$ s | Bulk 128 x 91 x 60 mm (100 pcs.)     | 0031.8273    |
| ●      | Spec. Thermoplastic | Gold-Plated Copper Alloy | acc. to JEDEC J-STD-020C, $T_p=260 \pm 0/-5$ °C, $t_p = 20-40$ s | Blister Tape 38 cm Reel (400 pcs.)   | 0031.8275    |
| ●      | Spec. Thermoplastic | Gold-Plated Copper Alloy | acc. to JEDEC J-STD-020C, $T_p=260 \pm 0/-5$ °C, $t_p = 20-40$ s | Blister Tray 266 x 173 mm (500 pcs.) | 0031.8274    |

Most Popular. Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Spec. thermoplastic meets the requirements acc. to IEC 60335-1 Ed. 4.0 for appliances in unattended use (clause 30.2.3). This standard includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-12 and -13.

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

#### Description



Covers for OGN, OGN-SMD  
Cover for Holder OGN, OGN-SMD

Adapter to OGN, OGN-SMD  
Fuse Carriage with Handle for OGN, OGN-SMD

## Order numbers for pre-assembled OGN-SMD, blister tape packaging with 400 pieces per reel

| Rated<br>current In | FTT 5x20<br>with reflow cover<br>0853.0571 | FTT 5x20<br>no cover | FST 5x20<br>with reflow cover<br>0853.0571 | FST 5x20<br>no cover | FSF 5x20<br>with reflow cover<br>0853.0571 | FSF 5x20<br>no cover | SPT 5x20<br>with reflow cover<br>0853.0571 | SPT 5x20<br>no cover |
|---------------------|--------------------------------------------|----------------------|--------------------------------------------|----------------------|--------------------------------------------|----------------------|--------------------------------------------|----------------------|
| 50 mA               |                                            |                      | 0031.8304                                  | 0031.8354            |                                            |                      |                                            |                      |
| 63 mA               | 0031.8501                                  | 0031.8551            | 0031.8305                                  | 0031.8355            |                                            |                      |                                            |                      |
| 80 mA               | 0031.8502                                  | 0031.8552            | 0031.8306                                  | 0031.8356            |                                            |                      |                                            |                      |
| 100 mA              | 0031.8503                                  | 0031.8553            | 0031.8307                                  | 0031.8357            |                                            |                      |                                            |                      |
| 125 mA              | 0031.8504                                  | 0031.8554            | 0031.8308                                  | 0031.8358            |                                            |                      |                                            |                      |
| 160 mA              | 0031.8505                                  | 0031.8555            | 0031.8309                                  | 0031.8359            |                                            |                      |                                            |                      |
| 200 mA              | 0031.8506                                  | 0031.8556            | 0031.8310                                  | 0031.8360            |                                            |                      |                                            |                      |
| 250 mA              | 0031.8507                                  | 0031.8557            | 0031.8311                                  | 0031.8361            |                                            |                      |                                            |                      |
| 315 mA              | 0031.8508                                  | 0031.8558            | 0031.8312                                  | 0031.8362            |                                            |                      |                                            |                      |
| 400 mA              | 0031.8509                                  | 0031.8559            | 0031.8313                                  | 0031.8363            |                                            |                      |                                            |                      |
| 500 mA              | 0031.8510                                  | 0031.8560            | 0031.8314                                  | 0031.8364            | 0031.8413                                  | 0031.8463            |                                            |                      |
| 630 mA              | 0031.8511                                  | 0031.8561            | 0031.8315                                  | 0031.8365            | 0031.8414                                  | 0031.8464            |                                            |                      |
| 800 mA              | 0031.8512                                  | 0031.8562            | 0031.8316                                  | 0031.8366            | 0031.8415                                  | 0031.8465            |                                            |                      |
| 1 A                 | 0031.8513                                  | 0031.8563            | 0031.8317                                  | 0031.8367            | 0031.8416                                  | 0031.8466            | 0031.8993                                  | 0031.9007            |
| 1,25 A              | 0031.8514                                  | 0031.8564            | 0031.8318                                  | 0031.8368            | 0031.8417                                  | 0031.8467            | 0031.8994                                  | 0031.9008            |
| 1,6 A               | 0031.8515                                  | 0031.8565            | 0031.8319                                  | 0031.8369            | 0031.8418                                  | 0031.8468            | 0031.8995                                  | 0031.9009            |
| 2A                  | 0031.8516                                  | 0031.8566            | 0031.8320                                  | 0031.8370            | 0031.8419                                  | 0031.8469            | 0031.8996                                  | 0031.9010            |
| 2,5 A               | 0031.8517                                  | 0031.8567            | 0031.8321                                  | 0031.8371            | 0031.8420                                  | 0031.8470            | 0031.8997                                  | 0031.9011            |
| 3,15 A              | 0031.8518                                  | 0031.8568            | 0031.8322                                  | 0031.8372            | 0031.8421                                  | 0031.8471            | 0031.8998                                  | 0031.9012            |
| 4 A                 | 0031.8519                                  | 0031.8569            | 0031.8323                                  | 0031.8373            | 0031.8422                                  | 0031.8472            | 0031.8999                                  | 0031.9013            |
| 5 A                 |                                            |                      | 0031.8324                                  | 0031.8374            | 0031.8423                                  | 0031.8473            | 0031.9000                                  | 0031.9014            |
| 6,3 A               |                                            |                      | 0031.8325                                  | 0031.8375            | 0031.8424                                  | 0031.8474            | 0031.9001                                  | 0031.9015            |
| 8 A                 |                                            |                      | 0031.8326                                  | 0031.8376            | 0031.8425                                  | 0031.8475            | 0031.9002                                  | 0031.9016            |
| 10 A                |                                            |                      | 0031.8327                                  | 0031.8377            | 0031.8426                                  | 0031.8476            | 0031.9003                                  | 0031.9017            |

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