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

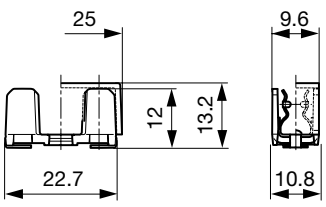
## Technical Data

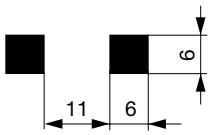
| | |
|---|---|
| Fuse-Link | 5 x 20 mm |
| Mounting | PCB |
| Terminal | Solder SMT |
| Rated Voltage | 250 VAC (VDE), 500 VAC/DC (UL/CSA) |
| Rated Current | 10 A (VDE), 10 A (UL/CSA) |
| Rated Power Acceptance IEC | 4 W / 10 A @ Ta 23 °C<br>2.5 W / 10 A with transparant cover, see derating curves |
| 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 | SCHURTER, Type, Dielectric strength, Power Acc./Current Rating, Approvals |

| | |
|---|---|
| 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

22.7 mm

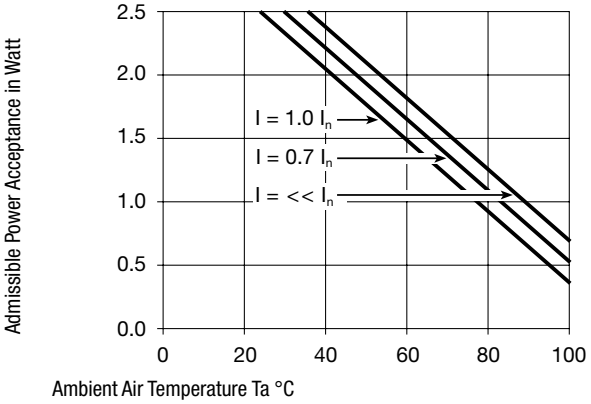


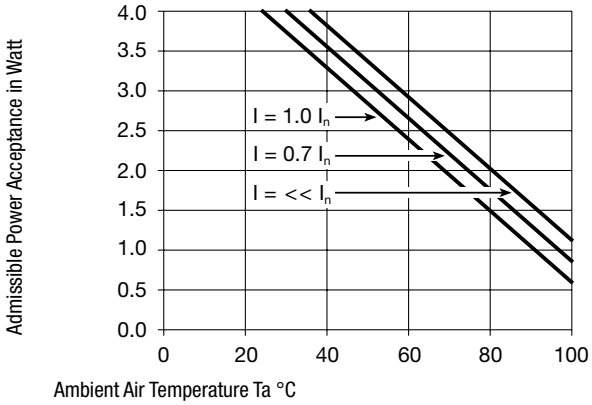



Soldering pads

## 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, Tp=240 +0/-5 °C, tp = 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, Tp=240 +0/-5 °C, tp = 20-40 s | Blister Tape 38 cm Reel (400 pcs.) | 0031.8225 |
| ● | Thermoplastic | Tin-Plated Copper Alloy | acc. to JEDEC J-STD-020C, Tp=240 +0/-5 °C, tp = 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, Tp=260 +0/-5 °C, tp = 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, Tp=260 +0/-5 °C, tp = 20-40 s | Blister Tape 38 cm Reel (400 pcs.) | 0031.8265 |
| ● | Spec. Thermoplastic | Tin-Plated Copper Alloy | acc. to JEDEC J-STD-020C, Tp=260 +0/-5 °C, tp = 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, Tp=260 +0/-5 °C, tp = 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, Tp=260 +0/-5 °C, tp = 20-40 s | Blister Tape 38 cm Reel (400 pcs.) | 0031.8275 |
| ● | Spec. Thermoplastic | Gold-Plated Copper Alloy | acc. to JEDEC J-STD-020C, Tp=260 +0/-5 °C, tp = 20-40 s | Blister Tray 266 x 173 mm (500 pcs.) | 0031.8274 |

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<br>Cover for Holder OGN, OGN-SMD |
| | Adapter to OGN, OGN-SMD<br>Fuse Carriage with Handle for OGN, OGN-SMD |

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

| Rated current In | FTT 5x20 with reflow cover 0853.0571 | FTT 5x20 no cover | FST 5x20 with reflow cover 0853.0571 | FST 5x20 no cover | FSF 5x20 with reflow cover 0853.0571 | FSF 5x20 no cover | SPT 5x20 with reflow cover 0853.0571 | SPT 5x20 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.**

17.03.2013



SCHURTER ELECTRONIC COMPONENTS

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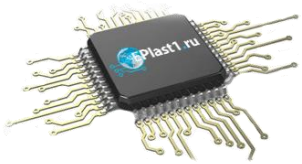
- Защита от снятия компонента с производства.

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