

Solid State, Thin Film, SMD 1206 Fuse for Space Application, ESCC QPL Listed

new



125 VAC · 125 VDC · Super-Quick-Acting FF

See below:

[Approvals and Compliances](#)**Description**

- ESCC QPL Listed, see www.escies.org
- Full data sheet available on request
- Hermetically sealed, robust and smallest construction with high breaking capacity up to 300 A

Unique Selling Proposition

- ESA ESCC QPL (Qualified Parts List)
- SnPb finish - effective whisker growing barrier
- Extensive control and screening procedures during production

Applications

- Applications where highest reliability and availability is needed
- Space

ReferencesAlternative: Standard version [MGA](#)**Weblinks**

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Packaging details](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Landing Page](#)

Technical Data

| | |
|------------------------------|-------------------------------------|
| Rated Voltage | 32 - 125 VAC, 125 VDC |
| Rated current | 0.14 - 3.5 A |
| Breaking Capacity | 50 A - 300 A |
| Characteristic | Super-Quick-Acting FF |
| Mounting | PCB,SMT |
| Admissible Ambient Air Temp. | -55 °C to 150 °C |
| Climatic Category | 55/150/21 acc. to IEC 60068-1 |
| Material: Housing | Ceramics |
| Material: Terminals | Tin-Plated Copper Alloy (with lead) |
| Unit Weight | 0.035 g |
| Storage Conditions | 0 °C to 60 °C, max. 70% r.h. |
| Product Marking | Variant Code |

| | |
|------------------------------|---|
| Soldering Methods | Reflow, Wave Soldering Profile |
| Solderability | 235 °C / 2 sec acc. to IEC 60068-2-58, Test Td |
| Resistance to Soldering Heat | 260 +0/-5 °C / 10 sec acc. to IEC 60068-2-58, Test Td |
| Moisture Sensitivity Level | MSL 1, J-STD-020 |



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.

Product standards

Product standards that are referenced

| Organization | Design | Standard | Description |
|---|-----------------------|--|--|
|  | Designed according to | ESCC Basics Specification Nr. 4008 | This specification defines the general requirements for the qualification, qualification maintenance, procurement, and delivery of fuses for space applications. This specification contains the appropriate inspection and test schedules and also specifies the data documentation requirements. |
|  | Designed according to | ESCC Detail Specification Nr. 4008/001 | This specification details the ratings, physical and electrical characteristics and test and inspection data for the component type variants and/or the range of components specified below. |





Application standards

Application standards where the product can be used

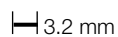
| Organization | Design | Standard | Description |
|--|--------------------------------|--------------|---|
|  | Designed for applications acc. | IEC/UL 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |

Compliances

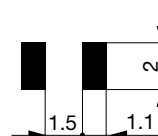
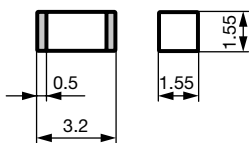
The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|--|--|-------------|---|
|  | CE declaration of conformity | SCHURTER AG | 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. |
|  | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |
|  | Avionics and Space | ECSS | Qualified according to ECSS Generic Specification 4008 and associated detail specification 4008/001 as recommended by the Space Components Steering Board |

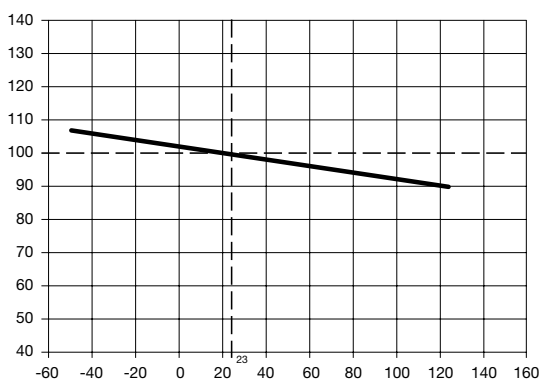
Dimension [mm]



Reflow soldering pads



Derating Curves

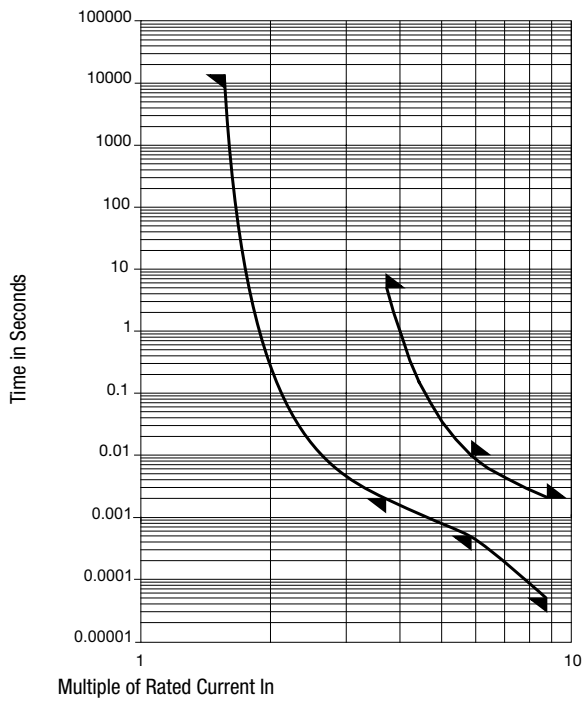


Pre-Arcing Time

Rated Current I_n 1.43 x I_n min. 3.58 x I_n min. 3.58 x I_n max. 5.71 x I_n min. 5.71 x I_n max. 8.57 x I_n min. 8.57 x I_n max.

| | | | | | | | |
|----------------|-----|------|-----|--------|-------|-------|------|
| 0.14 A - 3.5 A | 4 h | 2 ms | 5 s | 500 us | 10 ms | 50 us | 2 ms |
|----------------|-----|------|-----|--------|-------|-------|------|

Time-Current-Curves

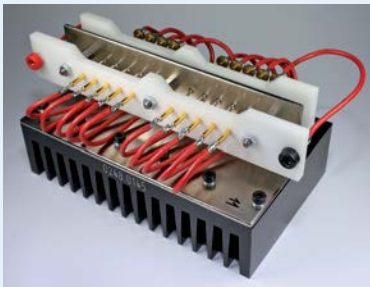
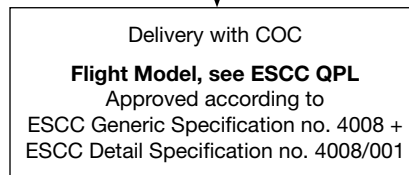
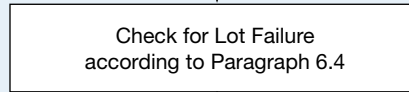
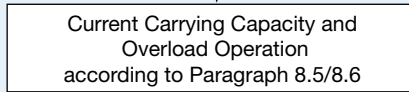
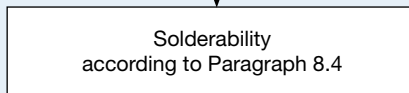
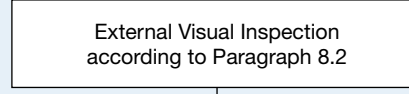
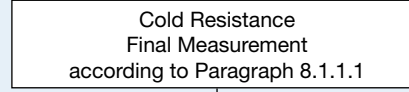
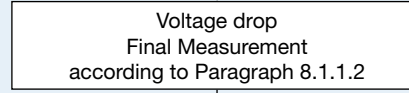
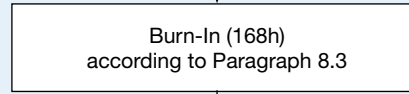
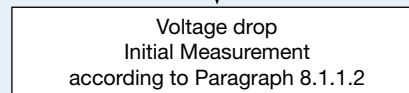
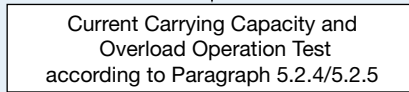
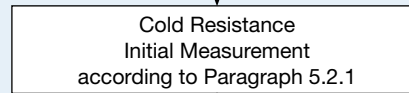
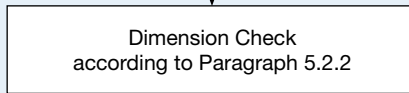
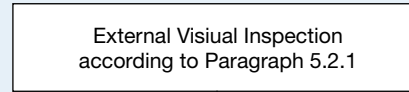
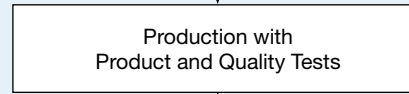


ESCC GENERIC SPECIFICATION N° 4008

PRODUCTION

CHART F2 - PRODUCTION CONTROL

CHART F3 - SCREENING TESTS



Test Equipment for Burn-In

All Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.43 In typ. [mV] | Cold Resistance typ. [mΩ] | Melting I ² t 5.71 In typ. [A ² s] | ESCC Component Number | Order Number |
|-------------------|---------------------|---------------------|-------------------|--------------------------------|---------------------------|--|-----------------------|--------------|
| 0.14 | 125 | 125 | 1) | 258 | 1020 | 0.0008 | 400800101 | 3410.0310 |
| 0.175 | 125 | 125 | 1) | 250 | 800 | 0.0009 | 400800102 | 3410.0311 |
| 0.262 | 125 | 125 | 1) | 165 | 361 | 0.0037 | 400800103 | 3410.0312 |
| 0.35 | 125 | 125 | 1) | 150 | 247 | 0.0042 | 400800104 | 3410.0313 |
| 0.525 | 125 | 125 | 1) | 100 | 115 | 0.01 | 400800105 | 3410.0314 |
| 0.7 | 125 | 125 | 1) | 124 | 98.7 | 0.035 | 400800106 | 3410.0315 |
| 1.05 | 125 | 125 | 1) | 105 | 56 | 0.064 | 400800107 | 3410.0316 |
| 1.4 | 125 | 125 | 1) | 98 | 39 | 0.089 | 400800108 | 3410.0317 |
| 1.75 | 125 | 125 | 1) | 90 | 29.5 | 0.15 | 400800109 | 3410.0318 |
| 2.1 | 125 | 125 | 1) | 88 | 24.1 | 0.18 | 400800110 | 3410.0319 |
| 2.8 | 63 | 125 | 2) | 83.5 | 17 | 0.23 | 400800111 | 3410.0320 |
| 3.5 | 32 | 125 | 3) | 90 | 13.5 | 0.45 | 400800112 | 3410.0321 |

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

- 1) 50 A @ 125 VAC / 300 A @ 125 VDC
- 2) 50 A @ 63 VAC / 50 A @ 125 VDC / 300 A @ 32 VDC
- 3) 50 A @ 32 VAC / 50 A @ 125 VDC / 300 A @ 32 VDC

Packaging Unit Blister Tape on 18 cm Reel in ESD Plastic Bag