Solid State, Thin Film, SMD 3220 Fuse for High Current Space Application, ESCC QPL Listed

Variant Code, Certification marks



See below: 63 VAC · 125 VDC · Quick-Acting F **Approvals and Compliances** Description Applications - ESCC QPL Listed, see www.escies.org - Applications where highest reliability and availability is needed - Full data sheet and engineering handbook available on request - Space - Sealed, robust and smallest construction based on MGA-S expe-References riences with high breaking capacity up to 1000 A Alternative: Standard version HCF **Unique Selling Proposition** Weblinks - ESA ESCC QPL (Qualified Parts List) pdf data sheet, html datasheet, General Product Information, Distributor-- SnPb finish - effective whisker growing barrier Stock-Check, Detailed request for product, Landing Page - 100% X-ray checked **Technical Data** 63 VAC, 125 VDC Soldering Methods Reflow, Wave Rated Voltage Soldering Profile 5 - 15A Rated current Solderability 235°C / 2 sec acc. to IEC 60068-2-58, **Breaking Capacity** 200A - 1000A Test Td Quick-Acting F Characteristic 260 °C / 10 sec acc. to IEC 60068-2-58, Resistance to Soldering Heat Mountina PCB,SMT Test Td Admissible Ambient Temp. -50 °C to 125 °C Moisture Sensitivity Level MSL 1, J-STD-020 **Climatic Category** 55/125/56 acc. to IEC 60068-1 IEC 60068-2-78 (40°C, 93% RH, 56 Damp heat, steady state Material: Housing Ceramics days) Material: Terminals Tin-Plated Copper Alloy (with lead) Thermal Shock IEC 60068-2-14 Unit Weight 0.8 g (200 air-to-air cycles from -55 to Storage Conditions 0°C to 60°C, max. 70% r.h. +150°C)

Operational Life

Mechanical Shock

Terminal Strength

Vibration, High Frequency

Approvals and Compliances

Product Marking

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.

MIL-STD-202, Method 108 Condition F

Shock 20 g, 20 min, 10-2000 Hz, 12

(Deflection of board 1 mm for 1 minute)

2000h @ 0.8 x ln @ 125°C

(12 shocks, 1600 g, 0.5 ms)

EIA/IS-722, Test 4.5.5

IEC 60068-2-6

IEC 60068-2-27

CYC

Product standards

Product standards that are referenced

Organization	Design	Standard	Description						
C	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. 4008/002	This specification details the ratings, physical and electrical characteri- stics and test and inspection data for the component type variants and/or the range of components specified below.						

Compliances

The product complies with following Guide Lines

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Identification	Details	Initiator	Description
CE	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.
UK CA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
REACH	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.
e	Avionics and Space	ECSS	Qualified according to ESCC Generic Specification 4008 and associated detail specification 4008/001 as recommended by the Space Components Steering Board

Dimension [mm]







Time-Current-Curves



Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Cold Resi- stance typ. [mΩ]	Melting I ² t 10.0 I _n typ. [A ² s]	ESCC Component Number	Order Number
5	63	125	1)	105	13.8	1.9	400800224	3409.0007
7.5	63	125	1)	107	10	3.8	400800226	3409.0009
10	63	125	1)	110	8.2	8.5	400800228	3409.0011
15	63	125	1)	85	4.3	22	400800232	3409.0015

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

1) 200 A @ 63 VAC, p.f. > 0.999 / 1000 A @ 125 VDC, L/R < 1 ms

Packaging Unit acc. IEC 60286-3 Type 2a 100 pcs. in Blister Tape [W: 16mm and P1: 8mm] on Reel [A: 18cm] in ESD Plastic Bag