Surface Mount Fuse for Space Application, ESCC Generic Specification No 4008

new

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

Description
- Approved according to ESCC Generic Specification No. 4008
- Full data sheet available on request

Standards
- ESCC Generic Specification no. 4008
- ESCC Detail Specification no. 4008/001

Applications
- Avionics&Space

References
GeneralProductInformation
Time-Current Curves see last page

Weblinks
Approvals: http://www.schurter.com/approvals
RoHS: http://www.schurter.com/rohs
CHINA-RoHS: http://www.schurter.com/china-rohs
Stock-Check: https://sapportal.schurter.ch:8888/irj/portal/anonymous

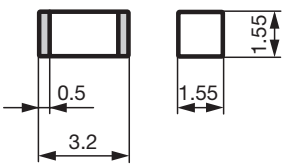
Technical Data

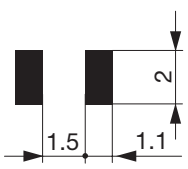
Rated Voltage	32 - 125 VAC, 125 VDC
Rated Current	0.14 - 3.5 A
Breaking Capacity	50 A - 300 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 150 °C
Climatic Category	55/150/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Copper Alloy (with lead)
Unit Weight	0.03 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	none

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td
Life Test	MIL-STD-202, Method 108A (1000h @ 0.70*In @ 70°C)
Load Humidity Test	MIL-STD-202, Method 103B (1000h @ 0.1*In @ 0.85 r.H. @ 85°C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125°C)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length 3.2 mm





Solder pads

Pre-Arcing Time

Rated Current In	1.43 x In min.	3.58 x In min.	3.58 x In max.	5.71 x In min.	5.71 x In max.	8.57 x In min.	8.57 x In max.
0.14 A - 3.5 A	4 h	2 ms	5 s	500 us	10 ms	50 us	2 ms

Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.43 In typ. [mV]	Cold Resistance typ. [mΩ]	Melting I²t 5.71 In typ. [A²s]	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

1) 50 A @ 125 VAC / 300 A @ 125 VDC

2) 50 A @ 63 VAC / 50 A @ 125 VDC

3) 50 A @ 32 VAC / 300 A @ 125 VDC

Packaging Unit Blister Tape

ESCC GENERIC SPECIFICATION N° 4008

Order Entry

PRODUCTION

Production with
Product and Quality Tests

CHART F2 - PRODUCTION CONTROL

External Visiual Inspection
according to Paragraph 5.2.1

Dimension Check
according to Paragraph 5.2.2

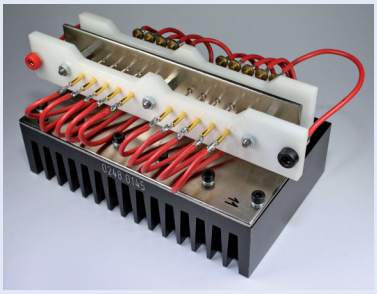
Cold Resistance
Initial Measurement
according to Paragraph 5.2.1

Current Carrying Capacity and
Overload Operation Test
according to Paragraph 5.2.4/5.2.5

CHART F3 - SCREENING TESTS

Voltage drop
Initial Measurement
according to Paragraph 8.1.1.2

Burn-In (168h)
according to Paragraph 8.3



Test Equipment for Burn-In

Voltage drop
Final Measurement
according to Paragraph 8.1.1.2

Cold Resistance
Final Measurement
according to Paragraph 8.1.1.1

External Visual Inspection
according to Paragraph 8.2

Solderability
according to Paragraph 8.4

Current Carrying Capacity and
Overload Operation
according to Paragraph 8.5/8.6

Check for Lot Failure
according to Paragraph 6.4

Delivery with Test Report Summary

Flight Model, see ESCC QPL
Approved according to
ESCC Generic Specification no. 4008 +
ESCC Detail Specification no. 4008/001

Time-Current Curves