



Components (including series and families) submitted for Extension of Qualification Approval: 1

ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
4008/001	01 to 12	As per specification	MGA-S Type	400800105 400800109	Rest of variants

Component Manufacturer SCHURTER AG 2	Location of Manufacturing Plant(s) 3 Werkhofstrasse 8-12 CH-6002 Lucerne SWITZERLAND	Date of original qualification approval: Date: 01/06/2008 4 Certificate Ref No. 284
--	--	--

ESCC Specifications used for Maintenance of qualification testing: Generic: 4008 Issue: 4 Detail(s): 4008/001 Issue: 6 5	Deviations to LVT testing and Detail Specification used: No <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details) 6	Qualification Extension Report reference and date: SCHURTER Report No.: D10-066-003 Index A Release Date: 21/10/2022 7
---	--	---

Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first) 8

Project Name	Testing Level	LAT	Date code	Quantity Delivered
See annex				

PID changes since start of qualification 9 None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box: Details not published, provided in separate confidential annex 2.)	Current PID Verified by: <u>S. Hernandez, ESA</u> 10 Name of Executive Representative Ref No: 0109.0044 Issue: N Date: 15/11/2022 Rev Date: 21/10/2022
--	---

Current Manufacturing facilities surveyed by: <u>ESA</u> on <u>20/10/2020</u> Name of Executive Representative Agency (Date) Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain Report Reference: <u>MOM-surv-SCH-201020</u>	11
--	----



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Fuses, Surface Mount, Thin Film, 0.14 to 3.5 A, Based on Type MGA-S

Executive Member: ESTEC

Date: 20/10/2022

Page 2

Appl. No.

284G

Failure Analysis, DPA, NCCS available: Yes No (Supply data)

Ref. No's and purposes: CA0449, CA0538

The undersigned hereby certifies on behalf of the ESCC Executive - that the above information is correct; - that the appropriate documentation has been evaluated; - that full compliance to all ESCC requirements is evidence (except as stated in box 15); - that the reports and data are available at the ESCC Executive and therefore applies on behalf of ESA as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date:

Anastasia Pesce Digitally signed by Anastasia Pesce
Date: 2022.12.15 10:46:02 +01'00'

(Signature of the Executive Coordinator)

Continuation of Boxes above:



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Fuses, Surface Mount, Thin Film, 0.14 to 3.5 A, Based on Type MGA-S

Executive Member: ESTEC

Date: 20/10/2022

Page 3

Appl. No.

284G

Non compliance to ESCC requirements:

15

No.:	Specification	Paragraph	Non compliance

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:

16

Executive Manager Disposition

17

Application Approval: Yes No

Action / Remarks:

Date:

B. Schade: Head of the Product Assurance and Safety Department



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: Fuses, Surface Mount, Thin Film, 0.14 to 3.5 A, Based on Type MGA-S

Executive Member: ESTEC

Date: 20/10/2022

Page 4

Appl. No.

284G

ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION

18

Tests conducted in compliance with:

- ESCC 4008 generic specification; Chart F4 (for ESCC/QPL parts);
- Or PID-TFD 0109.0044.M (for ESCC/QML parts)

Tests vehicle identification/description:

400800105	MGA-S 0.525 A
400800109	MGA-S 1.75 A

Detail Specification reference: 4008/001

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental/Mechanical Subgroup	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.13	2022	2x 20	0	---
	Rapid Change of Temperature	<input checked="" type="checkbox"/>	IEC 60068-2-14	2022	2x 20	0	---
	Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 204	2022	2x 20	0	---
	Shock	<input checked="" type="checkbox"/>	IEC 60068-2-27	2022	2x 20	0	---
	Fusion Characterisation Tests	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.5	2022	2x 20	0	---
	Insulation Resistance	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 302	2022	2x 15	0	---
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	2022	2x 20	0	---
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.13	2022	2x 20	0	---
	Damp Heat, Steady State	<input checked="" type="checkbox"/>	IEC 60068-2-78	2022	2x 20	0	---
	Fusion Characterisation Tests	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.5	2022	2x 20	0	---
	Insulation Resistance	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 302	2022	2x 15	0	---
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	2022	2x 20	0	---
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.13	2022	2x 6	0	---
	Thermal Vacuum	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.15	2022	2x 6	0	---
External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	2022	2x 6	0	---	



Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Endurance Subgroup	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.13	2022	2x 20	0	---
	Operating Life	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 108	2022	2x 20	0	---
	Fusion Characterisation Tests	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.5	2022	2x 20	0	---
	Insulation Resistance	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 302	2022	2x 15	0	---
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	2022	2x 20	0	---
	Permanence of Marking	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 24800	2022	2x 20	0	---
Assembly Capability Subgroup	Robustness of Terminations	<input checked="" type="checkbox"/>	IEC 60068-2-21	2022	2x 5	0	---
	Solderability	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.4	2022	2x 20	0	---
	Verification of Overload Operation at DC Rated Voltage (Room Temperature)	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.6	2022	2x 20	0	---
	Insulation Resistance	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 302	2022	2x 20	0	---
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.13	2022	2x 20	0	---
	Verification of Overload Operation at DC Rated Voltage (Low Temperature)	<input checked="" type="checkbox"/>	ESCC 4008 Para. 8.6	2022	2x 20	0	---
	Insulation Resistance	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 302	2022	2x 20	0	---
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Fuses, Surface Mount, Thin Film, 0.14 to 3.5 A, Based on Type MGA-S
Executive Member: ESTEC Date: 20/10/2022

Page 7

Appl. No.

284G

NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

ENTRIES

- Form heading shall indicate: - the title of the component as given in its detail specification or the name of the series, family; - the Executive Member; - the entering date; - the certificate number and its sequential suffix.
- Box 1** shall provide details given in the table; in particular there shall be listed: - the variants or range of variants; - the range of components (the ESCC code is recommended to indicate the values or values range, the tolerance, the voltage, etc); the designation given in the detail specification as 'base on'; - under Test Vehicle enter either an ESCC code or the specific characteristic capable of identifying the component tested (e.g., voltage of coil for a relay); - under component similar enter a cross if relevant.
- Box 2; 3 and 4** As per QPL entry; otherwise, an explanation of the changes must be supplied.
- Box 5** Will show the ESCC Generic and Detail specifications, including issue number and revision letter, current at the time the tests reported were performed. If the specifications are different from those current on the date of the application, see Box 6.
- Box 6** Will show the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of deviations this must be listed in Box 15. In case the referenced specification in Box 5 have currently a different issue and/or revision indicate also whether the test data deviates or not from such current documents.
- Box 7** Must reference the report(s) supplied in support of the application.
- Box 8** Should provide the details of procurement to the full ESCC System, documentation of all of which should already have been delivered to the ESCC Executive under the terms of the relevant Generic Specification. An appropriate table has been drawn in this box.
- Box 9** If the PID evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution shall be provided together with the reasons for the changes. Major changes shall be clearly marked.
- Box 10** Identify the current PID issue status, date and actual date of verification. The date of verification of the current PID should be arranged as close as possible to the required date of extension.
- Box 11** This box can be completed only after a physical visit to the plant to confirm that no unexplained changes occurred and that the practices, procedures, material, etc. used in manufacturing the components are as described in the PID. This survey shall be carried out in accordance with the requirements of ESCC Basic Specification No. 20200 and its findings shall be recorded.
- Box 12** Provide details of, or reference to, any Destructive Physical Analysis (DPA) and Failure Analysis reports as well as any Nonconformance(s) (NCCS) occurred during the qualification validity period, stating if established corrective action have produced satisfactory results.
- Box 13** Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive Coordinator.
- Box 14** To be used when there is a need to expand any of the boxes from 1 through 12. Identify box affected and reference the Box 14 in the relevant Box. Box 14 can be broken into 14a, 14b, etc. if several boxes have to be expanded.
- Box 15** Fill in Table as requested.
- Box 16** Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
- Box 17** All Executive Manager recommendations on the application itself, special conditions or restrictions, modifications of the QPL or QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 19, signed by the representative for ESA, and dated.
- Box 18** Fill in Table as requested.
- Box 19** Confidential Details of PID changes including those of a confidential nature, shall be provided.
- Box 20** State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 16 each nonconformance shall be sequentially numbered. If relevant state 'None'.
- Box 21** Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
- Box 22** Additional Comments.