ESCC

Component Title: FUSES, 5 TO 15 AMPS BASED ON TYPE HCSF

Page 1

										Аррі. No.	
		Executive Me	Executive Member: ESA				Date: 15/10/2024			336E	
Components (include	ling series and familie	es) submitted for	r Extension	of Qualification	on Approva	l:				1	
ESCC COMPONENT NO.	VARIANTS	RANG	RANGE OF COMPONENTS BASEL ON					TEST VEHICLE / S		COMPONENT SIMILAR	
4008/002	As per sp	ecification		HCSF	Туре		400800226 400800228	40080022 40080023			
Component M SCHURTER AG	lanufacturer	PROMOTO CHOCKS INDEX	trasse 8-12 Lucerne	nufacturing Pl	lant(s)	3	Date:	original qualification 01/06/2016 ate Ref No. 336	5	4	
ESCC Specification: Maintenance of qual Generic: 4008 Detail(s): 4008/00	used: No ⊠ Deviation	No ⊠ Yes ☐ (supply details in Box 15) Deviation from current Specifications:					Qualification Extension Report reference and date: SCHURTER Report N°: D10-085-497 Index A				
						SERVINO CONTRACTOR	<u> </u>		200.000 11879	8	
Summary of procure Project Name	est results during rel	esults during current validity period in support of this a LAT Date code				Quantity Delivered					
PID changes since start of qualification None □ Minor* ⊠				Current PID Verified by: Ref No: 0109.0063			Name of Excutive Representative			10	
Major* □	*Provide details in b Details not publishe confidential docum	ed, provided in s	eparate	Issue: Rev Date:	F 11/11/2	024		Da	ite:		
Current Manufacturii Satisfactory:	ng facilities surveyed Yes ⊠	-		ESA e of Executive		ative)	on		(Date) 20/10/2020	11	
Report Reference:	_MOM-surv-SC	H-201020									

ESCC

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: FUSES, 5 TO 15 AMPS BASED ON TYPE HCSF

Page 2 Appl. No.

		Executive Member:	ESA	Date:	15/10/2024	336E		
ilure	e Analysis, DPA, NCCS ava	ailable: Yes 🗆	No ⊠ (Supply data	a)				
No'	s and purposes:							
	2			W315				
t the cept	lersigned hereby certifies on behal appropriate documentation has be as stated in box 15;) - that the repo the responsible Executive Membe	en evaluated; - that full cor orts and data are available	npliance to all ESCC requiremer at the ESCC Executive and ther	nts is evidence efore applies on	behalf of			
te:	22/11/2024	Denis	Denis Digitally signed by Denis Lacombe					
		Lacombe	Date: 2024.11.22 10:52:45 +01'00'	(Signa	(Signature of the Executive Coordinator)			
ntinu	ation of Boxes above:							
						Ť		

ESCC	

Component title: FUSES, 5 TO 15 AMPS BASED ON TYPE HCSF

Appl. No.

Page 3

Exe			Member:	ESA		Date: 15/10/2024	336E
Non comp	pliance to ESCC requirements:						15
No.:	Specification			Paragraph		Non compliance	•
			-				
noncompl		mpliance for I	ESCC qualifica	tion or rationale fo	r acceptability o	of	16
Executive	Manager Disposition						17
Applicatio Action / R		No 🗆					
						B.Q1	
Date:						B. Schade: Head of the Qualit	y Department



FUSES, 5 TO 15 AMPS BASED ON TYPE HCSF

Executive Member: ESA Date: 15/10/2024 Appl. No. 336E

18

Page 4

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

Tests conducted in compliance with:

ESCC 4008 generic specification; Chart F4 (for ESCC/QPL parts); Or PID-TFD 0109.0063/E (for ESCC/QML parts)

Tests vehicle identification/description:

400800226	HCSF 7.5 A	
400800228	HCSF 10 A	

Detail Specification reference:

4008/001 Issue 6

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
	Resistance to Soldering Heat		ESCC 4008 Para. 8.13	2024	2 x 20	0	
	Rapid Change of Temperature	×	IEC 60068-2-14	2024	2 x 20	0	
	Vibration		MIL-STD-202, Test Method 204				Not applicable acc.to 4008/002
	Shock		IEC 60068-2-27	2024	2 x 20	0	
	Fusion Characterisation Tests	×	ESCC 4008 Para. 8.5	2024	2 x 20	0	
de	Insulation Resistance	×	MIL-STD-202, Test Method 302	2024	2 x 15	0	
Environmental/Mechanical Subgroup	External Visual Inspection		ESCC Basic Specification No. 20500	2024	2 x 20	0	
	Resistance to Soldering Heat	⊠	ESCC 4008 Para. 8.13	2024	2 x 20	0	
Hall M	Damp Heat, Steady State	\boxtimes	IEC 60068-2-78	2024	2 x 20	0	
vironmer	Fusion Characterisation Tests	×	ESCC 4008 Para. 8.5	2024	2 x 20	0	
]	Insulation Resistance	\boxtimes	MIL-STD-202, Test Method 302	2024	2 x 15	0	
	External Visual Inspection	×	ESCC Basic Specification No. 20500	2024	2 x 20	0	
	Resistance to Soldering Heat		ESCC 4008 Para. 8.13	2024	2 x 6	0	
	Thermal Vacuum		ESCC 4008 Para. 8.15	2024	2 x 6	0	
	External Visual Inspection	×	ESCC Basic Specification No. 20500	2024	2 x 6	0	



Executive Member:

ESA

Component title: FUSES, 5 TO 15 AMPS BASED ON TYPE HCSF

Date:

15/10/2024

Page 5 Appl. No.

336E

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
	Resistance to Soldering Heat	×	ESCC 4008 Para. 8.13	2024	2 x 20	0	
Endurance Subgroup	Operating Life		MIL-STD-202, Test Method 108	2024	2 x 20	0	
	Fusion Characterisation Tests	×	ESCC 4008 Para. 8.5	2024	2 x 20	0	
ance	Insulation Resistance		MIL-STD-202, Test Method 302	2024	2 x 20	0	
Endur	External Visual Inspection	×	ESCC Basic Specification No. 20500	2024	2 x 20	0	
	Permanence of Marking	×	ESCC Basic Specification No. 24800	2024	2 x 20	0	
Assembly Capability Subgroup	Robustness of Terminations	×	IEC 60068-2-21	2024	2 x 20	0	
	Solderability	⋈	ESCC 4008 Para. 8.4	2024	2 x 20	0	
	Verification of Overload Operation at DC Rated Voltage (Room Temperature)	⊠	ESCC 4008 Para. 8.6	2024	2 x 20	0	
pability	Insulation Resistance	×	MIL-STD-202, Test Method 302	2024	2 x 20	0	
bly Ca	Resistance to Soldering Heat	\boxtimes	ESCC 4008 Para. 8.13	2024	2 x 20	0	
Assem	Verification of Overload Operation at DC Rated Voltage (Low Temperature)	⊠	ESCC 4008 Para. 8.6	2024	2 x 20	0	
	Insulation Resistance	⊠	MIL-STD-202, Test Method 302	2024	2 x 20	0	
lal							
Additional							
Ad							



Date: 15/10/2024

Component title: FUSES, 5 TO 15 AMPS BASED ON TYPE HCSF

Page 7
Appl. No.

Executive Member: ESA

336E

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.