
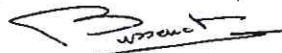

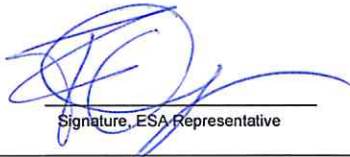
		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL				Page 1 Appl. No. 325B
Component Title: Resistor, Heater, Flexible, Single and Double Layer, based on type FHK		Executive Member: CNES				Date: 12/01/2017
Components (including series and families) submitted for Extension of Qualification Approval:						1
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR	
4009/003	01		FHK	FHK545 FHK546 FHK568		
	02	All		FHK548		
	03			FHK560 FHK540		
Component Manufacturer MINCO SAS		2	Location of Manufacturing Plant(s) MINCO SAS, Zone Industrielle 09310 ASTON, FRANCE		3	4
					Date of original qualification approval: Date: 22/03/2013 Certificate Ref No. 325	
ESCC Specifications used for Maintenance of qualification testing: Generic: 4009 Issue: 6 Detail(s): 4009/003 Issue: 3		5	Deviations to LVT testing and Detail Specification used: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)		6	7
					Qualification Extension Report reference and date: TRESCE_07_1, 21/10/2015 TRESCE_08_0, 10/05/2016 TRESCE_19_0, 05/01/2017	
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 box 22						
PID changes since start of qualification None <input type="checkbox"/> Minor* <input type="checkbox"/> Major* <input checked="" type="checkbox"/> *Provide details in box:		9	Current PID Verified by: CNES Name of Executive Representative Ref No: IC07 Issue: 2 Rev Date: 29/09/2016		10	
					Date: 04/10/2016	
Current Manufacturing facilities surveyed by: ESA & CNES on 20/02/2017 (Name of Executive Representative) (Date)						11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain						
Report Reference: 2017-00847-CR						

	<p align="center">APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</p> <p>Component title: Resistor, Heater, Flexible, Single and Double Layer, based on type FHK</p> <p>Executive Member: CNES Date: 12/01/2017</p>	<p align="center">Page 2</p> <p align="center">Appl. No. 325B</p>
<p>Failure Analysis, DPA, NCCS available: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (Supply data)</p> <p>Ref. No's and purposes:</p>		12
<p>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 CNES as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.</p> <p>Date: 16/01/2017</p>		13
<p>Continuation of Boxes above:</p>		14



JP. BUSSENOT
(Signature of the Executive Coordinator)

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	Component title: Resistor, Heater, Flexible, Single and Double Layer, based on type FHK	Appl. No.	
	Executive Member: CNES	Date: 12/01/2017	325B
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 <input type="checkbox"/> No <input type="checkbox"/>			
Action / Remarks:			
Date: <div style="text-align: right; margin-top: 20px;">  Signature, ESA Representative </div>			



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

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Component Title: Resistor, Heater, Flexible, Single and Double Layer, based on type FHK

Appl. No.

Executive Member: CNES

Date: 12/01/2017

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

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Tests conducted in compliance with:


- ESCC 4009 generic specification; Chart F4 (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

FHK545 (400900301) Single Layer, Double Element, WA, DC 1523AA	FHK540 (400900303) Dual Layer, Double Element, DC 1636AA and 1636AB
FHK546 (400900301) Single Layer, Double Element, WA, DC 1523AA	FHK548 (400900302) Single Layer, Single Element, FEP, DC 1636AA and 1636AB
FHK560 (400900303) Single Layer, Single Element, DC 1542AA	FHK568 (400900301) Single Layer, Single Element, WA, DC 1635AA

Detail Specification reference: 4009/003

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	N° of Rejects	Comments if not performed. Comments on Rejection
Environmental/ Mechanical Subgroup	Robustness of Terminations	<input checked="" type="checkbox"/>	IEC 60068-2-21	1636AA 1636AB 1635AA	3 + 3 3 + 3 6	0	
	Climatic Sequence	<input checked="" type="checkbox"/>	ESCC 4009, Para. 8.7	1636AA 1636AB 1635AA	3 + 3 3 + 3 6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 20500	1636AA 1636AB 1635AA	3 + 3 3 + 3 6	0	
Endurance Subgroup	Operating Life	<input checked="" type="checkbox"/>	ESCC 4009, Para. 8.8	1523AA 1542AA 1636AA 1636AB 1635AA	5+5 5 3 + 3 3 + 3 6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 20500	1523AA 1542AA 1636AA 1636AB 1635AA	5+5 5 3 + 3 3 + 3 6	0	
	Permanence of marking	<input checked="" type="checkbox"/>	ESCC 24800	1523AA 1542AA 1636AA 1636AB 1635AA	2+2 2 2 + 2 2 + 2 2	0	
Additional tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					

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	Executive Member: CNES	Date: 12/01/2017	325B

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.