	<b>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</b>	Page 1 Appl. No. 310D			
Component Title: Relays, non-latching, type M 302 Executive Member: CNES		Date: 09/07/2019			
Components (including series and families) submitted for Extension of Qualification Approval: <span style="float: right;">1</span>					
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3602 009	03, 04, 06, 13, 14 and 16	Coil voltages 12V and 28V	Type M302	36020091428V	All variants
				36020091328V	
				36020090428V	
Component Manufacturer <span style="float: right;">2</span> <b>Leach international Europe S.A.</b>		Location of Manufacturing Plant(s) <span style="float: right;">3</span> <b>2 Rue Goethe</b> <b>57430 Sarralbe</b>	Date of original qualification approval: <span style="float: right;">4</span> Date: 01/04/2011  Certificate Ref No. 310		
ESCC Specifications used for Maintenance of qualification testing: <span style="float: right;">5</span> Generic: 3602 Issue: 4 Detail(s): 3602 009 Issue: 5		Deviations to LVT testing and Detail Specification used: <span style="float: right;">6</span> 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)	Qualification Extension Report reference and date: <span style="float: right;">7</span> Rapport_MOQ_M302_RT_123678_0, 14/03/2019 and RT_1219615, 27/03/2018		
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first) <span style="float: right;">8</span>					
Project Name	Testing Level	LAT	Date code	Quantity Delivered	
See document MOQ M302_2019 appended to MoQ report					
PID changes since start of qualification <span style="float: right;">9</span> None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box:		Current PID Verified by: <span style="float: right;">10</span> CNES Name of Executive Representative Ref No: DR_1156611 Issue: 2 Date: 09/07/2019 Rev Date: 17/04/2018			
Current Manufacturing facilities surveyed by: <span style="float: right;">11</span> CNES on 23/01/2019 (Name of Executive Representative) (Date)  Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain  Report Reference: 2019.0002067-CRR de visite fournisseur LEACH du 23.01.2019					



## APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Relays, non-latching, type M 302

Executive Member: CNES

Date: 09/07/2019

Page 2

Appl. No.

310D

12

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

Ref. No's and purposes:

13

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.

Date: 10/07/2019

JP BUSSENOT

(Signature of the Executive Coordinator)

14

Continuation of Boxes above:

Minor Change in PID :

- Update of document template
- Update of documentation and equipment procedure



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Relays, non-latching, type M 302

Executive Member: CNES

Date: 09/07/2019

Page 3

Appl. No.

310D

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 ESA Product Assurance  
and Safety Department

	<b>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</b> Component Title:    Relays, non-latching, type M 302 Executive Member:    CNES	Page 4 Appl. No. 310D
Date:    09/07/2019		

ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION
 18

Tests conducted in compliance with:

- ESCC 3602 generic specification; Chart F4 (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

36020090428V (Ref:M302-D2AA-H-967-30 / DC:1842A)	36020091428V (Ref:M302-D2A-H-860 / DC:1829A)
36020091328V (Ref:M302-D3A-H-860 / DC:1808A)	36020091428V (Ref:M302-D2A-H-860 / DC:1712A)

Detail Specification reference:                      3602 009

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental / Mechanical Subgroup (Column 1)	Thermal Shock	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 107	1829A	6	0	
	Low Level Sine Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 204	1829A	6	0	
	Random Vibration	<input type="checkbox"/>	MIL-STD-202, Test Method 214				
	Low Level Mechanical Shock	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 213	1829A	6	0	
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 210	1829A	6	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	1829A	6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	1829A	6	0	
Environmental / Mechanical Subgroup (Column 2)	High Level Sine Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 204	1829A, 1808A	1+ 5	0	
	High Level Mechanical Shock	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 213	1829A, 1808A	1+ 5	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	1829A, 1808A	1+ 5	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	1829A, 1808A	1+ 5	0	
Endurance Subgroup 1 (Column 1)	Low Level Life	<input type="checkbox"/>					
	Inductive Life	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.11.2	1842A	3	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	1842A	3	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	1842A	3	0	





# APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Relays, non-latching, type M 302

Executive Member: CNES


Date: 09/07/2019

Page 5

Appl. No.

310D

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Endurance Subgroup 1 (Column 2)	Coil Life	<input type="checkbox"/>	ESCC 3602 Para. 8.12				
	Seal (Fine and Gross Leak)	<input type="checkbox"/>	MIL-STD-202, Test Method 112				
	External Visual Inspection	<input type="checkbox"/>	ESCC Basic Specification No. 20500				
Endurance Subgroup 1 (Column 3)	Intermediate Current	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.13	1829A	3	0	
	Mechanical Life	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.14	1829A	3	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	1829A	3	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	1829A	3	0	
Endurance Subgroup 2	Resistive Life	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.11.3	1829A, 1712A	6 + 6	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	1829A, 1712A	6 + 6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	1829A, 1712A	6 + 6	0	
Assembly Capability Subgroup	Solderability	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 208	1829A, 1712A	3 + 3	0	
	Overload	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.16	1829A, 1712A	3 + 3	0	
	Permanence of Marking	<input type="checkbox"/>	ESCC Basic Specification No. 24800				Not Applicable for laser marking
	Terminal Strength	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 211	1829A, 1712A	3 + 3	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	1829A, 1712A	3 + 3	0	
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					

	<p align="center"><b>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</b></p> <p>Component title:      Relays, non-latching, type M 302</p> <p>Executive Member:      CNES <span style="float: right;">Date:      09/07/2019</span></p>	<p align="center">Page 7</p> <p align="center">Appl. No.</p> <p align="center">310D</p>
<p align="center"><b>NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL</b></p>		
<p><b>ENTRIES</b></p>		
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.	