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		Executive	e Member:	ESA		Dat	e: 10/09/202	21	184P	
Components (includi	ng series and famili	es) submitte	d for Extension	of Qualificatio	n Approval:				1	1
ESCC COMPONENT NO.	VARIANTS	R	ANGE OF CO	MPONENTS BASE		D	TEST VEHICLE / S		COMPONEN' SIMILAR	T
4009002xxRyyyy 01 thru 48		As pe	As per specification and PID, Ryyyy				400900204 R3999 All other varia		other variants	
							400900204 R4	.000 All	other variants	
							400900204 R3	987 All	other variants	
							400900228 R4	004 All	other variants	
Component Ma IRCA Spa	anufacturer		Location of Ma odgora 26, 310	=		Date of Date:	f original qualifi 01/04/ ate Ref No.		al:	4
		5	6						7	
ESCC Specifications Maintenance of quali		Devia used:	Deviations to LVT testing and Detail Specification used:				Qualification Extension Report reference and date:			
Generic: 4009 Issue: 07 Detail(s): 4009/002 Issue: 11			No X Yes (supply details in Box 15) Deviation from current Specifications: No X Yes (Supply details)			EF.AST.P.317/21 06/09/2021 EF.AST.P.319/21 06/09/2021 EF.AST.P.318/21 06/09/2021 EF.AST.P.316/21 06/09/2021				
Summer of management						unulination	/th to FSC/	C listed finat		8
Summary of procurer Project Name	Testing Le		LAT	allulty period if	Date code	ірріісаціон		Quantity Deliv	ered	
PID changes since st	art of qualification		9	Current PID	Verified by:		S. Her	nandez, ESA		10
None Major* X *Provide details in box: See box 22				Ref No: Rica PID 5.34 Issue: 30 Rev Date: 09/09/2021			Name of Excutive Representative Agency			
										11
Current Manufacturin	ig facilities surveyed	d by:	F. Mart	(Name of Ev	, ESA ecutive Represen	utativa Aga	on	19/01/20 (Date		
Satisfactory:	Yes X	No	□ Ex	plain	ecanive izebieseu	itative Age	ноу <i>)</i>	Date	,	
Report Reference:	RIC-AUD-20 MOM-RIC-0									



Component title: RESISTORS, HEATERS, FLEXIBLE, SINGLE AND DOUBLE LAYER

Executive Member: ESA Date: 10/09/2021

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

Ref. No's and purposes:

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: 15/11/2021

(Signature of the Executive Coordinator)

Continuation of Boxes above: 14

ESCC

Component title: RESISTORS, HEATERS, FLEXIBLE, SINGLE AND DOUBLE LAYER

Executive Member: ESA Date: 10/09/2021

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Non compliance	e to ESCC requirements:			15
No.:	Specification	Paragraph	Non compliance	
Additional tasks	required to achieve full compliance for ES	SCC qualification or rationale for acceptability	of	16
noncompliance				10
Executive Mana	ager Disposition			17
Application App				
Action / Remark	(S:			
			Digitally signed by	
			Britta Schade	
Date:			Schade Date: 2021.12.20 13:39:23 +01'00'	
			B. Schade: Head of the Product Assurance and Safety Department	:



Component Title: RESISTORS, HEATERS, FLEXIBLE, SINGLE AND DOUBLE LAYER

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Executive Member:

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

Tests conducted in compliance with:

ESCC 4009 generic specification; Chart F4 (for ESCC/QPL parts); Or PID-TFD 5.34.16 rev.30 (for ESCC/QML parts)

Tests vehicle identification/description:

R3999; R4000; R3987; R4004	Etched foil heater			

ESCC 4009/002 Detail Specification reference:

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	X	IEC 60068-2-21	2121A 2122A 2122A 2120A	5 + 5 + 5 + 8	0	None
	Climatic Sequence	х	ESCC 4009, Para. 8.7	2121A 2122A 2122A 2120A	5+5+ 5+8	0	None
	External Visual Inspection	х	ESCC 20500	2121A 2122A 2122A 2120A	5+5+ 5+8	0	None
Endurance Subgroup	Operating Life	Х	ESCC 4009, Para. 8.8	2121A 2122A 2122A 2120A	5+5+ 5+8	0	None
	External Visual Inspection	Х	ESCC 20500	2121A 2122A 2122A 2120A	5+5+ 5+8	0	None
	Permanence of marking	Х	ESCC 24800	2121A 2122A 2122A 2120A	5+5+ 5+8	0	None
Additional							
Ad							

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ENTRIES

Box 13

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

RESISTORS, HEATERS, FLEXIBLE, SINGLE AND DOUBLE LAYER Component title:

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10/09/2021 Executive Member: **ESA** Date:

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

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.

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.

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 16**

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.

Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive

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.