APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Component Title: RESISTORS, HEATERS, FLEXIBLE, SINGLE AND DOUBLE LAYER

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

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Components (includir ESCC COMPONENT	ng series and famili	es) su	20 000 000 000 0									
COMPONENT		,	ibmitted for Ext	ension of	Qualification /	Approval:						1
			RANGE OF COMPONENTS			BASED ON			TEST VEHICLE / S		MPONENT IMILAR	
4009002xx Ryyyy	01 through 48		As per specific	cation and	d PID, Ryyyy	- - -			400900203 R2435 400900227 R3247 400900228 R2514	All other All other All other	variants	
Component Ma IRCA, RICA Division	anufacturer	2			facturing Plant Vittorio Venet	2.5	3	Date:	of original qualification a 26/10/2015 ficate Ref No. 184 L	approval:		4
ESCC Specifications Maintenance of qualif Generic: 4009 Detail(s): 4009/002	fication testing: Issue: 06		used: No Deviation from	Yes X	ng and Detail S ((supply d 15) Specifications: X (Supply 6)	letails in B		refere EFR. EFR.	fication Extension Repo ence and date: CMP.R 407.17 29/08/20 CMP.R 408.17 29/08/20 CMP.R 409.17 29/08/20	117 117		7
Summary of procurer Project Name European and non	ment or equivalent to Testing Le		sults during cu			upport of the	-		n (those to ESCC listed Quantit About 700 specific heat	y Delivered		8
European customers												
PID changes since st None Minor* X Major*	*Provide details in See box 14	box:			Issue:	Verified by Rica PID 5 25 28/02/201	5.34.1		ESA ame of Excutive Repres		0/2017	10
Current Manufacturin	g facilities surveyed	d by:	No 🗆	(Name o	ESA / ASI of Executive Re		ive)	on	. 2	7/10/2017 (Date)		11

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4.		Executive Member:	ESA			Date:	27/10/2017	184M
								12
Failure	Analysis, DPA, NCCS av	ailable: Yes	□ No	X	(Supply data)			
See Niele								
Ref. No's	and purposes:							
							e normalista de la composition della composition	13
The unde	rsigned hereby certifies on beha ppropriate documentation has be	If of the ESCC Execution and the ESCC Execution of the ESCC Execut	ve - that the ab	ove info	rmation is correct	; - s eviden	ce	
except a	s stated in box 15;) - that the rep ne responsible Executive Membe	orts and data are avail	able at the ESC	CC Exec	utive and therefor	re applie	s on behalf of	
SA as u	ie responsible Executive Membe	i for ESCC qualification	ii status to be t	skende	a to the componer	/		
Date:	27/10/2017						losion &	Eq.
						(S	signature of the Executive	re Coordinator)
Continua	tion of Boxes above:							14
ID upda	ted to incorporate editorial chang	ges and new test vehic	les.					



Executive Member:

ESA

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Non comp	bilance to ESCC requirements:		-	
No.:	Specification	Paragraph	Non compliance	
1	4009/002 Issue 6	1.6.1 Heater Thickness	Heater thickness > 0.3 mm (0.4 mm maximum Individual, double layer heaters). Changes has agreed with ESA pending on successful MOQ testing. MOQ testing is compliant with Issue 7 specification (DCR 1066) which will be issue er November 2017.	been
Additional	I I tasks required to achieve full compliance for	I ESCC qualification or rationale for acceptability	of	
noncompl	liance:	2000 qualification of rationale for acceptability	.	16
Executive	Manager Disposition			17
Action / R	on Approval: Yes		4.4 D1	
Date:			Signature, ESA Representative	



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ESA

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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.25 (for ESCC/QML parts)

Tests vehicle identification/description:

400900203 R2435 (Rica 1EFISL743002) 10 pcs	400900228 R2514 (Rica 1EFISM148002) 10 pcs
400900227 R3247 (Rica 1EFISO275002) 10 pcs	-

Detail Specification reference:

ESCC 4009/002

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	1714A	5+5+5	0	None
	Climatic Sequence	x	ESCC 4009, Para. 8.7	1714A	5+5+5	0	None
	External Visual Inspection	x	ESCC 20500	1714A	5+5+5	0	None
Additional Endurance tests Subgroup	Operating Life	х	ESCC 4009, Para. 8.8	1714A	5+5+5	0	None
	External Visual Inspection	Х	ESCC 20500	1714A	5+5+5	0	None
	Permanence of marking	Х	ESCC 24800	1714A	5+5+5	0	None



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Executive Member: ESA

Date: 27/10/2017

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.