Charles .	ESCC
THE REAL PROPERTY.	

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title:

Resistors, Heaters, Flexible, single and double layer

Page 1
Appl. No.

		Executive Me	mber: E	ESA			Date:	13/XH/13		184	K
Components (includ	ing series and famil	lies) submitted for	Extension	of Qualification	Approval:				-		_ 1
ESCC COMPONENT NO.	VARIANTS	RANG	E OF COM	PONENTS	В	ASED ON)	TEST VEHICLE / S		COMPONE! SIMILAR	
4009002 xx yyyy	as in ESC	as in ESCC 4009/002 Single layer Double layer				0900204R1015 0900228R1016					
					Single	layer	151	FISI508002	bridg	lar to 00204R127 ⁷ ged extension heater	
Component M	anufacturer	2 Loca	ition of Man	ufacturing Plan	t(e)	3					т,
IRCA, RICA Division		Via Podgo			ii(o)		Date of ori	ginal qualification a 01/04/1992	pproval:		4
							Certificate	Ref No. 184			
ESCC Specifications Maintenance of qual		5 Deviations used:	to LVT tes	ting and Detail	Specificati	6 on	Qualification	on Extension Repor	rt		7
Generic: 4009 Detail(s): 4009/00 See box 14 for strip	No ⊠ Deviation No ⊠	No ⊠ Yes □ (supply details in Box 15) Deviation from current Specifications:				ER.CMP.R 310/3 4-Sept2013 EFR.CMP.R 309.13 6-Sept2013 EFR.CMP.R 308.13 9-Sept2013					
Summary of procure	ment or equivalent t	test results during	current vali	idity period in s	upport of ti	his ap	pplication (the	ose to ESCC listed	first)		8
Project Name	Testing Le	0.0	LAT		Date code				y Deliver	ed	
European customers	ESCC	-	- many				More than 500 specific heater designations				
Non-European customers	-	- many				Less than 100 specific heater designations					
PID changes since s	tart of qualification	210000	9	Current PID	Verified by			ESA			10
None 🗵							Name of Excutive Representative				
Minor* □				Ref No:	5.34.16						
Major* *Provide details		box:		Issue: 20			Date: 201		2011		
	PID unchanged si	ince last MOQ in 2	2011	Rev Date:	27/07/201	1				730	1
Current Manufacturing facilities surveyed by:				ESA			on 23/10/2013			11	
Satisfactory:	Yes ⊠	No	(Name	of Executive Re	epresentat	ive)			(Date)		
Cadaladol J.	100 M	NO	_ схрі	allf							

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ESCC	Component title:	Resistors, I	Heaters,	Flexible, single a	Appl. No.	
	Executive Member:			Date:	184K	
						12
Failure Analysis, DPA, NCCS ava	ailable: Yes	□ No	\boxtimes	(Supply data)		
Ref. No's and purposes:						
The undersigned hereby certifies on behal that the appropriate documentation has be (except as stated in box 15;) - that the reposition as the responsible Expension of the company of the	en evaluated; - that ful orts and data are availa	I compliance to able at the ES	o all ESC CC Exec	CC requirements i cutive and therefor	s evidence re applies on behalf of	13
20 21	xecutive Member for E	SCC qualificat	ion statt	is to be exterided	to the component(s) isseed herein.	
Date: 15.01,2014					(Signature of the Executive	Coordinator)
Continuation of Boxes above:						14
The manufacturing of the bridged, strip horidged parts was however not compatible heaters (no bridged configurations were a its issue 07. A strip heater, reference 1EFI	e with ESCC 4009/00: cknowledged in Figure	2 issue 06, as under Para.	it set a	maximum limit o s anomaly has be	f length at 60 cm., and only speci en corrected with the update of the	fied single-segment
The manufacturing of strip heaters was alr use of the already approved materials and additional possibility of bridging segments	processes. The curre					
and the state of t						

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		Executive Memb	er: ESA	Date:	184K
Non compliand	ce to ESCC requirement	ts:			1:
No.:	Specification	1	Paragraph	Non complian	ce
4					
dditional tasks	required to achieve full	compliance for ESCC	qualification or rationale for ac	ceptability of	16
RICA-IRCA will	initiate a DCR to amend	ESCC 4009/002 as d	escribed in Box 14. The chang	e will not imply changes to variants definition. main and approved PID since 2011.	The materials of
xecutive Mana	ger Disposition				17
oplication Appr ction / Remarks		No 🗆			
& NCD V	77/1	/	/	1 41	
UCKO	Lo has bee	n roused	revenued a	und accepted in aters To Mescope	
reca	con to th	e addilia	n of ship he	aters 10 he scope	
asn	rentiones	1 m \$16	· above.	•	
				1	
17.	01.2014			L. C02	
ite:	7				

Signature, ESA Representative



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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); PID- 5.34.16 rev. 20 of 27.07.2011 (for ESCC/QML parts)

Tests vehicle identification/description:

4009002 04 R1015 (RICA 1EFISD838007) 10pcs	RICA 1EFISI508002, similar to 4009002 04 R1271\ 10pcs
4009002 28 R1013 (RICA 1EFISD83808) 10 pcs	W

Detail Specification reference:

ESCC 4009/002

Chart F4	Tost	Tick when done	Conditions	Date Gode	Tested Oty	N° of Rejects	Comments if not performed. Comments on Rejection
	Robustness of Terminations	×	IEC 60068-2-21, Test Ua1	1313A	5+5+5	0	
	Climatic Sequence	⊠	ESCC 4009, Para. 8.7	1313A	5+5+5	0	
dno	Initial Measurements	×	Intermediate & End-Point Electricals Per Detail	1313A	5+5+5	0	
Subgrou	Ory Heat	×	IEC 60068-2-2, Test Ba	1313A	5+5+5	0	
Su	Damp Heat (First- Cycle)	×	IEC 60068-2-30, Test Db	1313A	5+5+5	0	
/ Moch	Cold	×	IEC 60068-2-1, Test Ad	1313A	5+5+5	0	
	Low Air Pressure	×	IEC 60068-2-13, Test M	1313A	5+5+5	0	
viron.	Damp Heat (Remaining Cycles)	×	IEC 60068-2-30, Test Db	1313A	5+5+5	0	
Emy	DC Load	\boxtimes	ESCC 4009, Para. 8.7.7	1313A	5+5+5	0	
	Final Measurements	×	Intermediate & End-Point Electricals Per Detail	1313A	5+5+5	0	
			ESCC 20500	1313A	5+5+5	0	
8 9	Operating Life	×	ESCC 4009, Para. 8.8	1313A	5+5+5	0	
	External Visual Inspection	\boxtimes	ESCC 20500	1313A	5+5+5	0	
	Permanence of marking	×	ESCC 24800	1313A	5+5+5	0	
II O			1.0101	145	6.7.	and a v	
7					100		
dition				1.5			Lake Communication
Add			. 7	2004 191 14			



Box 22

Additional Comments.

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	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.