Contract Con	E	SC	C
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APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title:

Resistors, Heaters, Flexible, single and double layer

Page 1 Appl. No.

	,	Executive Me	mber: ESA	1			D	ate: 01/10/2015		1841	L
Components (including	ng series and familie	es) submitted for	Extension of C	Qualification	Approval:						_1
ESCC COMPONENT NO.	VARIANTS	RANG	E OF COMPO	NENTS	0.00 EXTRACT	SED	ķ.	TEST VEHICLE / S		COMPONE	
4009002 xx yyyy	01 through 48	as in ESC	C 4009/002		Single la	ayer v	w/ N.	400900204R1015	1EFI	ISD838007	
		ĺ			Double Rica pat		w/	400900228R1016	1EFI	ISD838008	
					Single la heater		strip	400900204R1271	1EFI	ISI508002	
Component Ma	nufacturer	2 Loca	ition of Manufa	sturing Pla	nt(s)	3					4
IRCA, RICA Division		Via Podgo			iidə) [3	Date:	of original qualification 01/04/1992 icate Ref No. 184	approval:		4
ESCC Specifications Maintenance of qualifi		5 Deviations used:	to LVT testing	and Detai	Specificatio	6 n		fication Extension Repo	ort		7
Generic: 4009 Detail(s): 4009/002	Issue 5	No ⊠ Deviation No ⊠	Yes ☐ from current Sp Yes ☐	15) pecification	details in Bo is: y details)	ox	ER.C	MP.R 110/15 6-July-2 CMP.R 111/15 6-July. CMP.R 112.2 6-July-2	2015		
	7527		The street of	y period in	16 A. 96	is app	plication	n (those to ESCC listed	d first)	78	8
Project Name European customers	Testing Lev ESCC	el	LAT	many	Date code			Quanti More than 400 specific	ity Deliver	700	
Non-European	ESCC	1-		many				Less than 100 specific			
customers			31100 St. 10 St.	many				Less than 100 specific	neater de	salgitations	X
								- 10			
PID changes since state None □ Minor* ☑ Major* □	art or qualification *Provide details in b	юх:	Re	ef No:	Verified by: 5.34.16 23		Na	ESA ame of Excutive Repres		14/09/2015	10_
	See box 14		Re	ev Date:	22/07/2015						11
Current Manufacturing	facilities surveyed	by:	(Name of F	ESA Executive F	Representativ	/e\	on _	2	23/10/201 (Date)	3	
			(realitie of E		representativ	٠,			(Duto)		
Satisfactory:	Yes ⊠	No	☐ Explain		topieseman	,			(Date)		

	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL					
ESCC	ESCC Component title: Resistors, Heaters, Flexible, single and double layer					
	Executive Member:	ESA		Date: 01/10/2015	184L	
ailure Analysis, DPA, NCCS a	vailable: Yes	□ No ⊠	(Supply data)			
ef. No's and purposes:						
. v						
ne undersigned hereby certifies on beh at the appropriate documentation has a xcept as stated in box 15;) - that the re as the responsible	been evaluated; - that fu	Il compliance to all E able at the ESCC Ex	SCC requirements is ecutive and therefore	evidence applies on behalf of	in.	
ate: 05/10/2015				Duggan Je	zera	
				(Signature of the Executive		
ontinuation of Boxes above:						
ntinuation of Boxes above. ne PID was updated in 2014 and 2015	to include 4009/004 pro	duct (ESCC certifica	te of Qualification No	330) and some other aditorial	Lindates	
e PID was updated in 2014 and 2015	to include 4009/004 pro	duct (ESCC certifica	te of Qualification No	330) and some other editorial	upoates.	

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STATE OF	ES	
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APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title:

Resistors, Heaters, Flexible, single and double layer

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Appl. No.

Executive Member: ESA

Date: 01/10/2015

					184L
Non compliance	e to ESCC requirements:				15
	10				27
No.:	Specification		Paragraph	Non complia	nce
				A STATE OF THE STA	
Additional tasks noncompliance:	required to achieve full co	ompliance for ESCC qualification	ation or rationale for acceptal	bility of	16
noncompliance.					2 <u></u>
Executive Mana	ger Disposition				
Executive Mana					17
Application Appr	roval: Yes 🗆	No 🗆			17
	roval: Yes 🗆	No 🗆			17
Application Appr	roval: Yes 🗆	No 🗆			17
Application Appr	roval: Yes 🗆	No 🗆			17
Application Appr	roval: Yes 🗆	No 🗆			17
Application Appr	roval: Yes 🗆	No 🗆			17
Application Appr	roval: Yes 🗆	No 🗆			17
Application Appr	roval: Yes 🗆	No 🗆			17
Application Appr	roval: Yes 🗆	No 🗆			17
Application Appr	roval: Yes 🗆	No 🗆			17
Application Appr	roval: Yes 🗆	No 🗆			17
Application Appr	roval: Yes 🗆	No 🗆			
Application Appr	roval: Yes 🗆	No 🗆			
Application Appr	roval: Yes 🗆	No 🗆			
Application Appr	roval: Yes 🗆	No 🗆		4.6	
Application Appr	roval: Yes 🗆	No 🗆		h. M	



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title:

Resistors, Heaters, Flexible, single and double layer

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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- (for ESCC/QML parts)

N/A

Tests vehicle identification/description:

4009002 04 R1015 (RICA 1EFISD838007) 10pcs	4009002 04 R1271 (RICA 1EFISI508002) 10pcs
4009002 28 R1016 (RICA 1EFISD838008) 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
	Robustness of Terminations	×	IEC 60068-2-21, Test Ua1	1506A	5+5+5	0	
	Climatic Sequence	⊠	ESCC 4009, Para. 8.7	1506A	5+5+5	0	
dno	Initial Measurements	×	Intermediate & End-Point Electricals Per Detail	1506A	5+5+5	0	
ogr	Dry Heat	⊠	IEC 60068-2-2, Test Ba	1506A	5+5+5	0	
Environ. / Mech Subgroup	Damp Heat (First Cycle)	×	IEC 60068-2-30, Test Db	1506A	5+5+5	0	
le Ct	Cold	×	IEC 60068-2-1, Test Ad	1506A	5+5+5	0	
N / 1	Low Air Pressure	⊠	IEC 60068-2-13, Test M	1506A	5+5+5	0	
iro	Damp Heat (Remaining Cycles)	×	IEC 60068-2-30, Test Db	1506A	5+5+5	0	
E	DC Load	×	ESCC 4009, Para. 8.7.7	1506A	5+5+5	0	
	Final Measurements		Intermediate & End-Point Electricals Per Detail	1506A	5+5+5	0	
	External Visual Inspection	×	ESCC 20500	1506A	5+5+5	0	
9 0	Operating Life	⊠	ESCC 4009, Para. 8.8	1506A	5+5+5	0	
nou	External Visual Inspection	⊠	ESCC 20500	1506A	5+5+5	0	
Endurance Subgroup	Permanence of marking	×	ESCC 24800	1506A	5+5+5	0	
ய்ல							
la l							
Additional							
Add							



ENTRIES

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Resistors, Heaters, Flexible, single and double layer Component title:

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Appl. No. 184L

Executive Member:

ESA

Date: 01/10/2015

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. 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 Box 1 characteristic capable of identifying the component tested (e.g., voltage of coil for a relay); - under component similar enter a cross 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. Will show the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of Box 6 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. Should provide the details of procurement to the full ESCC System, documentation of all of which should already have been Box 8 delivered to the ESCC Executive under the terms of the relevant Generic Specification. An appropriate table has been drawn in this box. If the PID evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution Box 9 shall be provided together with the reasons for the changes. Major changes shall be clearly marked. Identify the current PID issue status, date and actual date of verification. The date of verification of the current PID should be Box 10 arranged as close as possible to the required date of extension. 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 **Box 11** carried out in accordance with the requirements of ESCC Basic Specification No. 20200 and its findings shall be recorded. Provide details of, or reference to, any Destructive Physical Analysis (DPA) and Failure Analysis reports as well as any Box 12 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 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 **Box 14** 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 **Box 16** by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.

Box 18 Fill in Table as requested

Box 17

Box 19

Confidential Details of PID changes including those of a confidential nature, shall be provided.

State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 16 each nonconformance Box 20

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.

shall be sequentially numbered. If relevant state 'None'

Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted Box 21

by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.

Box 22 Additional Comments