	000		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL							Page 1		
ESCC			omponent Title: C	(uartz	Crystal Ur	nits in meta	holo	ter TO8			Appl. No).
	ecutive Member: C	CNES			Date:	05/10/2017		334A				
Components (includ	ing series and familie	es) su	ubmitted for Extension of	of Qua	alification /	Approval:						1
ESCC COMPONENT NO.	VARIANTS	NTS RANGE OF COME			MPONENTS BASE ON				TEST VEHICLE / S	ICLE / S SIMI		Г
3501019				5 to 14	40 MHz	Type T1	507		CC 3501/019 , 073/STC 5488	1 1 2 2 2 2 2 2 2	other variants	
										•		
Component N	Manufacturer	2	Location of Manufacturing Plant(s) 3 2 Rue Rober Keller 10 150 Pont Sainte Marie				3	Data of an	ainal qualificat	ion approv	al·	4
RAKON France							Date of original qualification approval: Date: 01/09/2015					
								Certificate	Ref No. 3	34		
		5					6					7
ESCC Specification							Qualification Extension Report reference and date:					
Maintenance of qua Generic: 3501	lification testing: Issue: 4		No ⊠ Yes □ (supply details in Box				VOQ T15	07_51002109	-A0 570-Is0)2_Dossier	7\ ond	
Detail(s): 019 Issue: 5			15) Deviation from current Specifications:				Test repor	rt		705 (25/07/201) NHZ(12/08/2017		
Botan(e).	,		No ⊠ Yes			details)		15001210	216402_011_1	13.440 1321	12(12/00/2017	,
											_	8
Summary of procur	ement or equivalent	test r	esults during current va	alidity	period in s			plication (th	ose to ESCC I	isted first)		
Project Name	Testing Le	evel	LAT			Date code			Q	uantity Deli	vered	
See CDROM												
	i							1				
			9	l c	rront PID	Verified by			CNES			10
None	start of qualification		_ 9_	1	Hell FID	vermed by	•	Name	of Excutive R	epresentati	ive	
Minor*				Ref	f No:	PID ARG_	PSN	1 51001881_	_B0			
Major* ⊠	*Provide details in	n box:	:	1	ue:	В0	_			Date:	05/10/2017	
				Re	v Date:	21/07/201	/					11
Current Manufactu	ring facilities survey	ed by	:		CNES & E	SA		on		19/03/	2015	
				e of F	xecutive f	Representa	tive)			(Da	te)	

Yes ⊠ No □ Explain

RAKPSM-AUD-2015-01 V1 annexes

Satisfactory:

Report Reference:

		APPLICAT	ION FOR EXT	ENSION	OF ESCC QUAL	IFICATI	ON APPROVA	E _v	Page	2
Carl Carl	ESCC	Component title:	Quartz Cr	ystal Unit	s in metal holder	TO8			Appl. N	No.
	75.7	Executive Member:	CNES			Date:	05/10/2017		334	١.
Failure	Analysis, DPA, NCCS ava	ailable: Yes	⊠ No		(Supply data)					12
Ref. No's	and purposes: Closed NC equipment	CS 2NCRK601 is app	ended (drift in	enduranc	e problems solve	d with th	e implementation	on of Argen	teuil metalliz	ation
that the a (except a	ersigned hereby certifies on behal ppropriate documentation has be s stated in box 15;) - that the repulse the responsible Executive Mem	en evaluated; - that fu orts and data are avail	II compliance to able at the ES0	o all ESC CC Execu	C requirements is itive and therefore	evidence e applies	s on behalf of	<-	- Wasen	13
Date:	05/10/2017							BUSSENOT		
						(Si	ignature of the l	Executive C	Coordinator)	
	tion of Boxes above:									14
PID evol										
-	Clean robot qualification (repo Qualification of metallization wi Qualification of stabilization 3 of Minor evolution of PID du to cu	ith BA150 (NCCS corr days at 165°C (NCCS	correctives ac	eport :3-F tions , rep	RES-152.252-A0) port 51001866.41	0)		50		
-	Minor evolution of PID du to cu	istomer specification e	volution.							

		APPLICATION	Page 3					
123 m	ESCC	Component title:	Quartz Crystal Units in metal	holder TO8	er TO8			
	Pro	Executive Member:	CNES	Date:	05/10/2017	334A		
Non comp	pliance to ESCC requirements:					15		
No.:	Specification		Paragraph		Non compliance	9		
Additional noncompl	I tasks required to achieve full co liance:	empliance for ESCC qu	alification or rationale for accepta	ability of		16		

Date:

Executive Manager Disposition

Action / Remarks:

Application Approval: Yes

No

Signature, ESA Representative

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APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title:

Quartz Crystal Units in metal holder TO8

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Executive Member: CNES

Date: 05/10/2017

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

Tests conducted in compliance with:

ESCC 3501 generic specification; Chart V (for ESCC/QPL parts); Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

ESCC 3501/019 , G0073/STC 5488 -	PIN	512831	, STC 5864,	#1705
P/N 509946, STC 3987, #1704		·		

Detail Specification reference:

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
-	Shock	⊠	IEC Publication No. 68-2-27	17-04	123	0	
thanica nn 1)	Vibration	×	IEC Publication No. 68-2-6	17-04	123	0	
(Colur	Seal Test	×	IEC Publication No. 68-2-17	17-04	123	0	
Environmental/Mechanical Subgroup (Column 1)	Electrical Measurements at Reference Temperature	×	Table 2 of the Detail Specification	17-04	12 3	0	
Ш	External Visual Inspection	×	ESCC Basic Specification No. 20500	17-04	123	0	
	Climatic Sequence	\boxtimes	ESCC 3501 Para. 9.14	17-04	123	0	
nanica In 2)	Rapid Change of Temperature	×	IEC Publication No. 68-2-14	17-04	123	0	
Colum	Seal Test	×	IEC Publication No. 68-2-17	17-04	12 3	0	
Environmental/Mechanical Subgroup (Column 2)	Electrical Measurements at Reference Temperature	×	Table 2 of the Detail Specification	17-04	12 3	0	
	External Visual Inspection	×	ESCC Basic Specification No. 20500	17-04	123	0	
	Life Test	\boxtimes	ESCC 3501 Para. 9.17	17-0405	125	0	
Endurance Subgroup	Electrical Measurements during Endurance Testing	×	Table 6 of the Detail Specification	17-9405	125	0	
S	External Visual Inspection	×	ESCC Basic Specification No. 20500	17-94 0	125	0	
Electrical Subgroup – Electr. Meas.	Electrical Measurements at Reference Temperature	×	Table 2 of the Detail Specification	17-94 5	\$ 3	0	
	Electrical Measurements at High and Low Temperatures	×	Table 3 of the Detail Specification	17,0405	83	0	



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Quartz Crystal Units in metal holder TO8

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Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
al ab.	Solderability	×	IEC Publication No. 68-2-20	17-0401-	52	0	
Electrical Subgroup – Ass. Capab. Tests	Permanence of Marking	⊠	ESCC Basic Specification No. 24800	17-9405	52	0	
	Robustness of Terminations	×	ESCC 3501 Para. 9.16	17-9405	52	0	
<u>a</u>							
Additional Tests							
A	1						



Box 22

Additional Comments.

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title:

Quartz Crystal Units in metal holder TO8

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CNES

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N	OTES 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.