_		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL				Page	1		
E	SCC	Component Title:	le: Quartz Crystal Units in metal holder TO5				Appl. N		
DE.	Executive Member: CNES Date: 16/11/2023		16/11/2023	333D)				
Components (include	ding series and families)	submitted for Extension	n of Qualification	Approval:				1	
ESCC COMPONENT NO.	VARIANTS	RANGE OF COI	MPONENTS	BASED ON		TEST COMPO		1T	
3501/018	All	Frequency Range :	14 to 140 MHz	Type T807	STC	5896 – C0283			
					STC4	4524 – C0052			
					STC5	5891 – C0280			
Component N RAKON France	Manufacturer 2	Location of Ma 2 Rue Robert Keller	anufacturing Plant	t(s) 3	Data of origin	! avalification cons		4	
NANOTT TURISC			10 150 Pont Sainte Marie			Date of original qualification approval: Date: 09/01/2015			
					Certificate Re	ef No. 333			
	5			6				7	
ESCC Specification Maintenance of qua		Deviations to LVT testing and Detail Specification used: Qualification Extension Report reference and date:							
Generic: 3501	Issue: 5	No ⊠ Yes							
Detail(s): 3501/0	18 Issue: 6	Deviation from ourse	15)		6432-509996-DC2146				
Detail(s): 3501/018 Issue: 6		Deviation from current Specifications: 6463-516493-DC2239 No ⋈ Yes □ (Supply details) 6482-516106-DC2309							
			Acceptance	,	0.102 0.10133				
~		w p s	B100 P111					8	
Project Name	ement or equivalent test re Testing Level	results during current va		upport of this app Date code	plication (those	to ESCC listed first) Quantity De	Toward Co.		
SalesOverview_Sep mber2021- August2023.xlsx				July 9925		Quantity 20	IIIVEIEG		
•									
PID changes since s	start of qualification	9	Current PID V	erified by:		C. Doucet, CNES		10	
None					Name of E	Excutive Representat	tive		
Minor* ⊠		1	11-11-03-03-03-03-03-03-03-03-03-03-03-03-03-	PID GEN_PSM 5	51001881_G0				
Major* □	*Provide details in box:		2000000	G0		Date:	17/10/2014		
	Click here to enter text.		Rev Date: 0	05/09/2023				11	
Current Manufacturin	ng facilities surveyed by:		C. Doucet, CNES and D. Lacomba, ESA 20/11/2019					- 11	
		(Name	e of Executive Rep	presentative)		(Dat	te)		
Satisfactory:	Yes ⊠	No □ Exp	lain						

Report Ref: Rakon-AUD-2019

Report Reference:

	APPLICAT	ION FOR EXTENSION	ON OF ESCC QUALIFI	CATION APPROVAL	Page 2
ESCC	Component title:	Quartz Crystal Ur	nits in metal holder TO5	5. = =	Appl. No.
	Executive Member:	CNES	D	ate: 16/11/2023	333D
Failure Analysis, DPA, NCCS ava	ailable: Yes	□ No ⊠	(Supply data)		12
Failule Allalysis, DFA, NCCS ave	allable. Tes		(Outpiy data)		
Ref. No's and purposes: N/A					
The undersigned hereby certifies on behal that the appropriate documentation has be (except as stated in box 15;) - that the repronection of the control of	een evaluated; - that fu orts and data are avail	II compliance to all E able at the ESCC Ex	SCC requirements is evecutive and therefore a	pplies on behalf of	13 Quadri
Date: 16/11/2023				G. QUADRI, (Signature of the Executive	
Continuation of Boxes above:				ad-16 → NEW MANAGEMENT (1997)	14
Continuation of Boxes above.					

C'Sell St	ESCC
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APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Quartz Crystal Units in metal holder TO5

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Appl. No.

	Executive Member: CNES	Date	e: 16/11/2023	333D
Non compliance to ESCC requiremen	its:			
No.: Specificatio	n Para	agraph	Non complian	nce
	1	>		
	,			
1				
Additional tasks required to achieve ful	I compliance for ESCC qualification or ra	ationale for acceptability of		
oncompliance:				_ 1
xecutive Manager Disposition				
Account Manager Disposition				17
pplication Approval: Yes 🗵	No 🗆			
ction / Remarks:				
				0
			3. DV	
ate:			0.001	
ato.				

and Safety Department



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title:

Quartz Crystal Units in metal holder TO5

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Appl. No.

Executive Member:

CNES

Date 16/11/2023

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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 F4 (for ESCC/QPL parts); Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

STC5896 / 39.975000MHz AT P3 T807 CW DC2239 STC4524 / 60.452000MHz AT P3 T807 CW DC2146 STC5891 / 87.381333MHz AT P5 T807 CW DC2309

Detail Specification reference:

3501/018

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Reject s	Comments if not performed. Comments on Rejection
nanical In 1)	Shock	×	IEC Publication No. 68-2-27	2309	5	0	
	Vibration	\boxtimes	IEC Publication No. 68-2-6	2309	5	0	
Colum	Seal Test	\boxtimes	IEC Publication No. 68-2-17	2309	5	0	
Environmental/Mechanical Subgroup (Column 1)	Electrical Measurements at Reference Temperature	×	Table 2 of the Detail Specification	2309	5	0	
	External Visual Inspection	⊠	ESCC Basic Specification No. 20500	2309	5	0	
	Climatic Sequence		ESCC 3501 Para. 8.9	2239	5	0	
n 2)	Rapid Change of Temperature	⊠	IEC Publication No. 68-2-14	2239	5	0	
Environmental/Mechanical Subgroup (Column 2)	Seal Test	×	IEC Publication No. 68-2-17	2239	5	0	
	Electrical Measurements at Reference Temperature		Table 2 of the Detail Specification	2239	5	0	
	External Visual Inspection		ESCC Basic Specification No. 20500	2239	5	0	
Endurance Subgroup	Life Test	×	ESCC 3501 Para. 8.11.2	2146 2309	8 8	0	
	Electrical Measurements during Endurance Testing		Table 6 of the Detail Specification	2146 2309	8 8	0	
	External Visual Inspection	\boxtimes	ESCC Basic Specification No. 20500	2146 2309	8 8	0	
Electrical Subgroup – Ass. Capab. Tests	Solderability	\boxtimes	IEC Publication No. 68-2-20	2309	3	0	
	Permanence of Marking		ESCC Basic Specification No. 24800	2309	3	0	
	Robustness of Terminations		ESCC 3501 Para. 8.14	2309	3	0	



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Quartz Crystal Units in metal holder TO5

Executive Member: CNES Date: 16/11/2023

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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.
Box 22	Additional Comments.