	*****	_								r	
			APPLICATI	ON FOR	EXTENSION	ON OF ESCC Q	UALIFIC	CATION APPROVAL		Page 1	
ESCC			omponent Title: Quartz Crystal Units in metal holder TO8							Appl No	2
									Appl. No.		
F. Same F. Same	Ex	ecutive Member:	CNES	3		Da	ate: 05/09/2019		334B		
Components (include	ding series and famil	ies) su	bmitted for Extens	ion of Qu	ualification	Approval:					1
ESCC		T				BASED		TEST		COMPONEN	т
COMPONENT NO.	VARIANTS		RANGE OF (COMPON	PONENTS ON			VEHICLE / S		SIMILAR	
3501/019 All			Frequency Range	e :2.5 to	140 MHz	Type T1507		STC4587-A	All	other variants	
							0				
Component N	Manufacturer	2	Location of	Manufac	turing Plan	nt(s) 3					4
RAKON France			Location of Manufacturing Plant(s) 2 Rue Rober Keller 10 150 Pont Sainte Marie				Date of original qualification approval: Date: 01/09/2015				
							Certif	icate Ref No. 333	3		
		5				6					7
ESCC Specification			Deviations to LV used:	T testing	and Detail	Specification		fication Extension Re	port		50-61
Generic: 3501 Issue: 4 Detail(s): 3501/019 Issue: 5			No ⊠ Yes ☐ (supply details in Box 15) Deviation from current Specifications:				VOQ_T1507_51002109-A0 570_Dossier6321- DC1845.pdf				
			No ⊠ Yes		(Supply	details)			X.		
						*	1				8
1.00 TO 1.00 T		7/200		nt validity	period in s		plicatio	n (those to ESCC list			
Project Name SalesOverview_Se	Testing Le	evel	LAT			Date code		Qua	ntity Deliv	rered	
mber2017- August2019.xlsx	pie										
			Ì								
PID changes since	start of qualification			9 Cu	rrent PID	Verified by:		CNES			10
None							N	ame of Agency Repr	esentative)	
Minor* □				Re	f No:	PID ARG_PSM	510018	881_D0			
Major* ⊠	*Provide details in	box:		Iss	Issue: D0		Date: 29			29/08/2019	
	Relocation of Arg Gennevilliers	jenteuil	I manufacture to	Re	v Date:	29/08/2019					
											1 5.2

CNES & ESA (Name of Agency Representative)

No

Explain

Current Manufacturing facilities surveyed by:

Yes ⊠

annexes

RAKPSM-AUD-2015-01 V1

Satisfactory:

Report Reference:

___ on

19/03/2015

(Date)

	ADDUGAT	TION FOR EXTENS	ION OF FOOD OUR	IEIGATION APPROVAL	
FOOG	5-44-5-5-6-5-5-5-5-6-5-5-6-5-5-6-5-5-5-6-5-5-5-6-5-5-5-6-5-5-6-5-5-6-5-5-6-5-5-6-5-5-6-5-5-6-5-5-6-5-5-6-5-5-6	ION FOR EXTENS	ION OF ESCC QUAI	LIFICATION APPROVAL	Page 2
ESCC	Component title:	Quartz Crystal	Units in metal holder	· TO8	Appl. No.
	Executive Member:	CNES		Date: 05/09/2019	334B
					12
Failure Analysis, DPA, NCCS a	vailable: Yes	⊠ No [(Supply data)	1NCRK901	12
l andre / maryolo, Br / t, 14000 a	valiable.	2 110	(Cuppi) data)	Montoor	
				N resulting from insufficient control of 2µm max. on the first batch – no	
- closed	actor witch conton after	they move their act	ivity – 2,5pm instead	or zpiri max. on the first batter – no	or critical – corrected
The undersigned basely and fire on help help	-W-445- F000 F	n in in			13
The undersigned hereby certifies on behind that the appropriate documentation has been sentenced.	een evaluated: - that fu	ive - that the above ill compliance to all	information is correct ESCC requirements	; - is evidence	
(except as stated in box 15;) - that the re	ports and data are avail	lable at the ESCC E	xecutive and therefor	re applies on behalf of	
CNES as the responsible Executive Men	nder for ESCC qualificat	tion status to be ext	ended to the compon	ient(s) listed herein.	women.
Date: 05/09/2019				JP. BUSSENO	T
Date: 05/05/2015				(Signature of the Executive	
				(Olghatare of the Exceditive	
Continuation of Boxes above:					14
Box 11: Audit of Optical activities in Genr	nevilliers in April 2018 fu	urther to their transf	er from Argenteuil – (ONES meeting report (CRIM) appe	nded

ESCC		1	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Component title: Quartz Crystal Units in metal holder TO8					
		Executive Member: CNES		Date:	05/09/2019	334B		
Non comp	pliance to ESCC requirements:					15		
No.:	Specification		Paragraph		Non complian	ce		
Additiona noncomp	I tasks required to achieve full co liance:	ompliance for	ESCC qualification or rationale for	acceptability of		16		
Executive	Manager Disposition					17		
Application / R	on Approval: Yes 反 demarks:	No 🗆						

Date:

B. Schade: Head of ESA Product Assurance and Safety Department

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Quartz Crystal Units in metal holder TO8

Page 4

Component Title:

Appl. No.

Executive Member: CNES

Date: 05/09/2019

334B

18

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 , C0073/STC 5488	

Detail Specification reference:

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental/Mechanical Subgroup (Column 1)	Shock	⊠	IEC Publication No. 68-2-27	1845	3	0	
	Vibration	⊠	IEC Publication No. 68-2-6	1845	3	0	
	Seal Test	×	IEC Publication No. 68-2-17	1845	3	0	
	Electrical Measurements at Reference Temperature	×	Table 2 of the Detail Specification	1845	3	0	
ш	External Visual Inspection	×	ESCC Basic Specification No. 20500	1845	3	0	
	Climatic Sequence	\boxtimes	ESCC 3501 Para. 9.14	1845	3	0	
Tempera Seal T Solumino Seal T Seal T Seal T Measurem Referen Tempera External V	Rapid Change of Temperature	×	IEC Publication No. 68-2-14	1845	3	0	
	Seal Test	×	IEC Publication No. 68-2-17	1845	3	0	
	Electrical Measurements at Reference Temperature	×	Table 2 of the Detail Specification	1845	3	0	
	External Visual Inspection	×	ESCC Basic Specification No. 20500	1845	3	0	
	Life Test	\boxtimes	ESCC 3501 Para. 9.17	1845	5	0	
Endurance Subgroup	Electrical Measurements during Endurance Testing	⊠	Table 6 of the Detail Specification	1845	5	0	
ūο	External Visual Inspection	×	ESCC Basic Specification No. 20500	1845	5	0	
Electrical Subgroup – Electr. Meas.	Electrical Measurements at Reference Temperature	×	Table 2 of the Detail Specification	1845	5	0	
	Electrical Measurements at High and Low Temperatures	×	Table 3 of the Detail Specification	1845	5	0	



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title:

Quartz Crystal Units in metal holder TO8

Page 5 Appl. No.

Executive Member:

CNES

Date: 05/09/2019

334B

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	1845	5	0	
Electrical Subgroup – Ass. Capab. Tests	Permanence of Marking		ESCC Basic Specification No. 24800	1845			N/A : Cover engraved
	Robustness of Terminations	×	ESCC 3501 Para. 9.16	1845	5	0	
la l							
Additional Tests							



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title:

Quartz Crystal Units in metal holder TO8

Page 7
Appl. No.

Executive Member:

CNES

Date: 05/09/2019

334B

NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

St.	SECTION OF THE PROPERTY OF THE
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.