ESCC	
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APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Quartz Crystal Units in metal holder TO8

Page 1 Appl. No.

Components (including series and families) submitted for Extension of Qualification Approval: Component			Executive Memb	per: CNE	=0		D	Date: 24/09/2021		Аррі. No.
Components (including series and families) submitted for Extension of Qualification Approval: SECC COMPONENT VARIANTS RANGE OF COMPONENTS BASED NO. VEHICLE / S SMILLAR	_		Executive Menns	- OIL				ate. 24/03/2021		334C
ARAKON France Component Manufacturer 2	Components (include	ling series and families	s) submitted for Ex	tension of Q	Qualification	Approval:				
3501/019 All Frequency Range : 2.5 to 140 MHz Type T1507 STC2717 C - C0119 All other variants Component Manufacturer	COMPONENT	VARIANTS	RANGE (OF COMPO	NENTS)			
RAKON France 2 Rue Robert Keller	3501/019	All	Frequency R	ange : 2.5 to	o 140 MHz	Type T1507		STC2717 C - C0119	All other va	ariants
RAKON France 2 Rue Robert Keller						İ				
RAKON France 2 Rue Robert Keller						İ				
RAKON France 2 Rue Robert Keller										
RAKON France 2 Rue Robert Keller										
RAKON France 2 Rue Robert Keller	Component N	Manufacturer	2 Locatio	n of Manufa	acturing Plant	t(s) 3	Т			4
ESCC Specifications used for Maintenance of qualification testing: Deviations to LVT testing and Detail Specification used: Caudification Extension Report reference and date: VOO_T1507_51002109.570-B0-Is02_Dossier	RAKON France		2 Rue Rober	t Keller	-		Date	of original qualification ap	oproval:	_
ESCC Specifications used for Maintenance of qualification testing: Generic: 3501 Issue: 5 No Vers (supply details in Box 15) Detail(s): 3501/019 Issue: 6 Deviation from current Specifications: No Vers (Supply details) Deviation from current Specifications: No Vers (Supply details) Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first) Project Name Testing Level LAT Date code Quantity Delivered SalesOverview, Septe mber2019- August2021.xisx PID changes since start of qualification Report reference and date: VOQ T1507_51002109.570-B0-Is02_Dossier 6404_DC2045,pdf (27/08/2021) 8 Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first) Project Name Testing Level LAT Date code Quantity Delivered SalesOverview, Septe mber2019- August2021.xisx PID changes since start of qualification Report reference and date: VOQ T1507_51002109.570-B0-Is02_Dossier 6404_DC2045,pdf (27/08/2021) 8 8 Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first) Project Name Testing Level LAT Date code Quantity Delivered SalesOverview, Septe mber2019- Major* Provide details in box: Ref No: PID GEN_PSM 51001881_F0 Issue: F0 Date: 31/08/2021 Ref No: PID GEN_PSM 51001881_F0 Issue: F0 Date: 31/08/2021 Current Manufacturing facilities surveyed by: B. Marty, CNES & S. Hernandez and D. Lacombe ESA on 01/01/2015 (Name of Agency Representative) (Date) Satisfactory: Yes No Explain			10 150 Pont	Sainte Marie	е		Date:	: 09/01/2015		
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Minor*	PID changes since	start of qualification	_	9 Cı	urrent PID \	Verified by:		C. Doucet, CNE	S	10
Major* Relocation of Argenteuil manufacture to Gennevilliers Satisfactory: Yes No Explain	None								ıtative	
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(Name of Agency Representative) (Date) Satisfactory: Yes ⊠ No □ Explain RAKPSM-AUD-2015-01 V1										11
Satisfactory: Yes ⊠ No □ Explain RAKPSM-AUD-2015-01 V1	Current Manufactur	by: B. Marty, CNE	B. Marty, CNES & S. Hernandez and D. Lacombe ESA			A on	1 01	/01/2015		
RAKPSM-AUD-2015-01 V1				(Name of /	Agency Repr	resentative)			(Date)	
RAKPSM-AUD-2015-01 V1	Satisfactory:	Yes ⊠	No 🗆	Explain	1					
	-			•						
Report Reference: annexes		RAKPSM-AUE	D-2015-01 V1							
	Report Reference:	annexes		_						

	APPLICAT	ION FOR EXTENSION	OF ESCC QUALIFICA	TION APPROVAL	Page 2
ESCC	Component title:	Quartz Crystal Unit		Appl. No.	
	Executive Member:	CNES	Date	e: 24/09/2021	334C
					12
Failure Analysis, DPA, NCCS ava	ailable: Yes	□ No ⊠	(Supply data)		
Ref. No's and purposes: N/A					
The undersigned hereby certifies on behali	f of the ESCC Executiv	ve - that the above info	rmation is correct: -		13
that the appropriate documentation has be (except as stated in box 15;) - that the repo CNES as the responsible Executive Memb	en evaluated; - that ful orts and data are availa	II compliance to all ES0 able at the ESCC Exec	CC requirements is evide utive and therefore appl	lies on behalf of	00
Date: 04/10/2021				JP BUSSENC)T
Date: 04/10/2021			_	(Signature of the Executive	
Continuation of Boxes above:					14

ESCC
Non compliance to ESCC_requirement

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Quartz Crystal Units in metal holder TO8

Executive Member: CNES Date: 24/09/2021

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Non comp	pliance to ESCC requirements:			15
No.:	Specification	Paragraph	Non compliance	
Additiona noncomp	l tasks required to achieve full compliance for l liance:	ESCC qualification or rationale for acceptability	of	16
Executive	e Manager Disposition			17
Applicatio	on Approval: Yes ☑ No □			L ''
Action / R				
			Britta Digitally signed	l by
			Direct Seriage	.0
Date:			Schade Date: 2021.12.2	
			B. Schade: Head of the Product Assurance	се
			and Safety Department	



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Quartz Crystal Units in metal holder TO8 Title:

 Executive
 CNES
 Date
 24/09/2021

 Member:
 :

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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:

STC2717 C - C0119 / 4.000000MHz DC 2045

Detail Specification reference: 3501/019

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Reject s	Comments if not performed. Comments on Rejection
=	Shock	\boxtimes	IEC Publication No. 68-2-27	2045	5	0	
chanica nn 1)	Vibration	\boxtimes	IEC Publication No. 68-2-6	2045	5	0	
(Colur	Seal Test	\boxtimes	IEC Publication No. 68-2-17	2045	5	0	
Environmental/Mechanical Subgroup (Column 1)	Electrical Measurements at Reference Temperature	\boxtimes	Table 2 of the Detail Specification	2045	5	0	
Ш	External Visual Inspection	\boxtimes	ESCC Basic Specification No. 20500	2045	5	0	
Environmental/Mechanical Subgroup (Column 2)	Climatic Sequence	\boxtimes	ESCC 3501 Para. 8.9	2045	5	0	
	Rapid Change of Temperature	\boxtimes	IEC Publication No. 68-2-14	2045	5	0	
	Seal Test	\boxtimes	IEC Publication No. 68-2-17	2045	5	0	
	Electrical Measurements at Reference Temperature	×	Table 2 of the Detail Specification	2045	5	0	
	External Visual Inspection	\boxtimes	ESCC Basic Specification No. 20500	2045	5	0	
Endurance Subgroup	Life Test	\boxtimes	ESCC 3501 Para. 8.11.2	2045	8	0	
	Electrical Measurements during Endurance Testing	\boxtimes	Table 6 of the Detail Specification	2045	8	0	
	External Visual Inspection	\boxtimes	ESCC Basic Specification No. 20500	2045	8	0	
al o – ab.	Solderability	\boxtimes	IEC Publication No. 68-2-20	2045	3	0	
Electrical Subgroup – Ass. Capab. Tests	Permanence of Marking		ESCC Basic Specification No. 24800				N/A, cover engraved
	Robustness of Terminations	\boxtimes	ESCC 3501 Para. 8.14	2045	3	0	



Box 22

Additional Comments.

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Quartz Crystal Units in metal holder TO8

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Executive Member: CNES Date: 24/09/2021

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

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.