			APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL									1
E	SCC	Co	omponent Title: Quartz Crystal Units in metal holder TO5						Appl. No.			
E			xecutive Member: CNES				D	ate: 05/10/201	333A	333A		
Components (include	ling series and familie	es) su	bmitted for Extension	of Qu	alification	Approval:						1
ESCC COMPONENT NO.	VARIANTS		RANGE OF COM	ENTS	TS BASED ON			TEST VEHICLE / S		COMPONEN SIMILAR	Т	
3501018				Frequency Range :15 to 140 MHz Ty			Туре Т807		STC5864 All oth		I other variants	_
Component N	Manufacturer [2	Location of Mar	nufact	turing Plan	t(s)	3	Date	of original qualific	cation approv	val:	4
RAKON FIAILE			10 150 Pont Sainte	Marie				Date			vai.	
ESCC Specification Maintenance of qua		5	Deviations to LVT tes	sting a	and Detail	Specificat	6 ion		ification Extension ence and date:	n Report		7
Generic: 3501 Issue: 4 Detail(s): 018 Issue: 5			No ⊠ Yes □ (supply details in Box 15) Deviation from current Specifications: No ⊠ Yes □ (Supply details)			VOQ_T807_51002109-A0 570-Is02_Dossier 6185_6188_6189_DC1704 (25/07/2017) and Test report 51002027-A0.502-Iss02_dossier6193- DC1705 (25.05.17)						
	- × × ×		w 25 a a									8
Summary of procur Project Name	ement or equivalent to Testing Le		sults during current va	lidity	penod in s	Date cod		plication		Quantity Del	ivered	
See CDROM				= .								
PID changes since	start of qualification		9	Cui	rrent PID	Verified b	y:		CNES	Representat	ive	10
Minor* □ Major* ⊠	*Provide details in	box:		Iss	f No: ue: v Date:	PID ARG B0 21/07/20		51001	881_B0	Date:	05/10/2017	
Current Manufactur	ring facilities surveye	d by:			CNES & E	251.5		°	n	19/03/		11
			(Name	e of E	xecutive F	epresenta	ative)			(Da	te)	

Satisfactory: Yes \boxtimes No \square Explain

Report Reference:

RAKPSM-AUD-2015-01 V1 annexes

	APPLICATION	ON FOR EXTE	NSION OF ESCC QUAL	IFICATI	ON APPROVAL	Page 2
ESCC	Component title:	Quartz Crys	stal Units in metal holder	TO5		Appl. No.
	Executive Member:	CNES		Date:	05/10/2017	333A
Failure Analysis, DPA, NCCS ava	ailable: Yes	⊠ No	☐ (Supply data)			12
Ref. No's and purposes: Closed NC equipment)		nded (drift in e	ndurance problems solve	ed with th	e implementation of Argen	teuil metallization
The undersigned hereby certifies on behalf that the appropriate documentation has be (except as stated in box 15;) - that the report common that the responsible Executive Mem	en evaluated; - that full orts and data are availa	compliance to ble at the ESC	all ESCC requirements i C Executive and therefor	s evidend re applies	on behalf of	13
Date: 05/10/2017				(S	JP. BUSSENO ignature of the Executive 0	
Continuation of Boxes above:						14
PID evolutions :						
Clean robot qualification (repo Qualification of metallization wi Qualification of stabilization 3 d Minor evolution of PID du to cu	th BA150 (NCCS corre	correctives action				

Towns of the last	
	00

Component title:

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		Executive	wember: CNES	Date: 05/10/2017	3	33A
Non compliance	to ESCC requirements:					15
No.:	Specification		Paragraph	No	n compliance	
Additional tasks	required to achieve full co	ompliance for	 ESCC qualification or rationale for acceptability	of		16
noncompliance:						
				,		
Executive Manag						17
Application Appr Action / Remarks		No 🗆		2.6	01	
Date:				Signature, ESA R	epresentative	



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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 3501/018, 54087: alld-c.1704 VIN 515108 STC5604 PIN 510596 STC 5486 DIN 515944 STE 5877

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	\boxtimes	IEC Publication No. 68-2-27	17-0504	123	0)
	Vibration	×	IEC Publication No. 68-2-6	17-050 ነ	123	0	
	Seal Test		IEC Publication No. 68-2-17	17-0504	123	0	1+25877
	Electrical Measurements at Reference Temperature	×	Table 2 of the Detail Specification	17-050 4	127	0	
	External Visual Inspection	×	ESCC Basic Specification No. 20500	17-0,5 64	123	0	
	Climatic Sequence	\boxtimes	ESCC 3501 Para. 9.14	17-0504	123	0	12 120
Environmental/Mechanical Subgroup (Column 2)	Rapid Change of Temperature	×	IEC Publication No. 68-2-14	17-0504	123	0	POA(312)
	Seal Test	×	IEC Publication No. 68-2-17	17-Q504	126	0	1 ctc 5823
	Electrical Measurements at Reference Temperature	×	Table 2 of the Detail Specification	17-P564	126	0	STC 5604
ត់	External Visual Inspection	×	ESCC Basic Specification No. 20500	17-9504	126	0	1
	Life Test	⊠	ESCC 3501 Para. 9.17	17-0504	125	0	
Endurance Subgroup	Electrical Measurements during Endurance Testing	×	Table 6 of the Detail Specification	17-05	125	0	1725486
ūσ	External Visual Inspection	×	ESCC Basic Specification No. 20500	17-05	125	0	7
Electrical Subgroup – Electr. Meas.	Electrical Measurements at Reference Temperature	⊠	Table 2 of the Detail Specification	17-06 0 h	5/3	0	1+25604
	Electrical Measurements at High and Low Temperatures	×	Table 3 of the Detail Specification	17-05 6 h	5/3	0)



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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	Ø	IEC Publication No. 68-2-20	17-D564	52	0	1
Electrical Subgroup – Ass. Capab. Tests	Permanence of Marking	⊠	ESCC Basic Specification No. 24800	17-0504	5	0	Wia (enforced)
	Robustness of Terminations	×	ESCC 3501 Para. 9.16	17-9504	52	0	1125416
Additional Tests	Western Land						



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NO	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'.

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.

Box 21