	CCC
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Component Title: Quartz Crystal Units in metal holder TO8

Executive Member:

CNES Date: 11/09/2015 Appl. No. 334

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ESCC COMPONENT, NO.	VARIANTS	RANGE OF COMPONENTS		PONENTS	BASED ON				IPONENT	T
3501002	All	Frequency Range :2.5 to 140 MH		to 140 MHz	Type T1507			All other	variants	
3501009	All	Frequency Range :2.5 to 140 MH			Type T1507			All other	variants	
3501019	All	Frequency Range :2.5 to 20 MH			Type T1507		T1507 AT P1 13.44MHZ , T1507 AT P3 15, 01 MHz , T1507 AT P1 3.68 Mhz			
Click here to enter text.	Click here to enter text.	Click here to	enter text	ia.	Click here to fext,	enter		Click her	e to enter	r te>
Component M		Locati	on of Man	ufacturing Pla		E0	CC Specification us	ed for Qualifier	tion	1
RAKON France	4	2 rue Robert 10150 Pont S		ie - FRANCE		Generic Issue Detail/s: Issue	4	119 5		
Qualification Report F	Reference and date:	W=		5 PID	used for manufa	acturing C	Qualification Lot			T
150812RQrev02_Q1 150812RQrev02_Q1 150812RQrev02_Q1 Date: 12/08/20	0_6864Mhz, 150812 2_18Mhz, 150810 4_38.2935	RQrev02_Q11_ RQrev02_Q13_		Ref	No: PID	ARG_PS	SM 51001881_A0			20
SANT W	E 4400 KI			Date		10/2014				_
PID changes since st	art of qualification		7 0	Current PID V	erified byCl	NES			_	
None			27				f Executive Represe			
Minor* ⊠	(* Details not published	provided in	F	Ref No:		PID AR	G_PSM 51001881_	A1		
Major* □	confidential annex 2.)	, provided in	l:	ssue		1				
				ate		31/07/2	015			
Current Manufacturin	g facilities surveyed by:									
CN	ES & ESA			19/03/2015						
(Name of Executive F	Responsible)		(	Date)						
Report Re	derence.	50								
Satisfactory:	Yes ⊠	No 🗆	Expla	in Report	RAKPSM-AUD	)-2015 v1	(March 2015), ESA	TEC-QES,		
Quality and Reliability	Data	200000 GCSP		Answe	rs_ESCC_Findi	ings_1505	13, teleconference	8th of Septem	ber 2015	
		2000000	1000			000000000000000000000000000000000000000	NAME OF THE PERSON	ridges righters	L.	1
Evaluation testing per	formed Yes ⊠	No			ailure analysis, vailable	, DPA, NC	CS Yes	⊠ No		
1	50423_EVAL4723_LOT ,150419_EVAL_4711_L -1, 50419_EVAL_4727_LO	OTE	14/04/2	015	The NCCS 2CR	AK501 ha	s been closed out.			
Equivalent Data:				1.	STEC CA 0667	7 June 20	115			
							1190			
Certification:				'	VA report 0157	76-001				
Certification:				1.	VA report 0157 Ref Nos. and pu					



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The undersigned hereby certifies on behalf of the ESCC Executive, that the above information is correct; that the appropriate documentation has been evaluated; that full compliance to all ESCC requirements is evidence except as stated in box 13; that the reports and data are available at the ESCC Executive and therefore applies for ESCC qualification status to be given to the component(s) listed herein.

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JP. BUSSENOT

(Signature of the Executive Coordinator)

Continuation of Boxes above: (Only non-confidential comments)

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Non compliance to ESCC	requirements:				13
No.:	Specification		Paragraph	Non compliance	ce
Additional tasks required	to achieve full com	pliance for ESCC qua	lification or rationale for accep	otability of	14
noncompliance:					
xecutive Manager Dispo	sition				15
Application Approval:	Yes □ 1	<b>10</b>			
Action / Remarks:					
				1	
				(r. Nor	
ate:				0000	
1.000.000				Signature, ESA Representative	<del></del>



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ANNEX 1: LIST OF TESTS DONE TO SUPPORT QUALIFICATION

Tests conducted in compliance with:

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

Tests vehicle identification/description:

T1501 AT P1 3501/019 , 3.68 MHZ	T1501 AT P3 3501/019 , 15.01 MHZ				
T1501 AT P1 3501/002 , 18 MHZ	T1501 AT P5 3501 , 38.29 MHZ				

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## Detail Specification reference:

Chart IV	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed Comments on Rejection
Environmental/Mechanical Subgroup	Shock	×	IEC Publication No. 68-2-27	14-26, 14-23	12	0	
	Vibration		IEC Publication No. 68-2-6	14-26, 14-23	12	0	
	Seal Test		IEC Publication No. 68-2-17	14-26, 14-23	12	0	
	Electrical Measurements at Reference Temperature	⊠	Table 2 of the Detail Specification	14-26, 14-23	12	1	see NCR
	External Visual Inspection		ESCC Basic Specification No. 20500	14-26, 14-23	12	0	
	Climatic Sequence	×	ESCC 3501 Para. 9.14	14-26, 14-23	12	0	1210.2
	Rapid Change of Temperature		IEC Publication No. 68-2-14	14-26, 14-23	12	0	
	Seal Test	$\boxtimes$	IEC Publication No. 68-2-17	14-26, 14-23	12	0	
	Electrical Measurements at Reference Temperature	$\boxtimes$	Table 2 of the Detail Specification	14-26, 14-23	12	0	1
	External Visual Inspection		ESCC Basic Specification No. 20500	14-26, 14 <b>-</b> 23	12	0	
nbly billity roup	Solderability	⊠	IEC Publication No. 68-2-20	14-26, 14-23	5	0	
Assembly Capability Subgroup	Robustness of Terminations	⊠	ESCC 3501 Para. 9.16	14-26, 14-23	5	0	
Endurance Subgroup	Life Test	$\boxtimes$	ESCC 3501 Para. 9.17	14-23	12	0	
	Electrical Measurements during Endurance Testing		Table 6 of the Detail Specification	14-23	12	0	
	External Visual Inspection	×	ESCC Basic Specification No. 20500	14-23	12	0	
	Permanence of Marking	⊠	ESCC Basic Specification No. 24800	14-23	12	0	



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Chart IV Test Tick when done Conditions Date Code Cty Rejects Comments if not performed. Comments on Rejection



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

**ENTRIES** 

Form Heading shall indicate:—the title of the component as given in its detail specification or the name of the series or family; — the entering

date; - the serial number and the suffix of the form,

Box 1 shall provide details given in table; in particular there shall be listed - the variants or range of variants; the range of components

by using the ESCC code for values tolerances, etc.; the designation given in detail specification as 'based on'; —under Test Vehicle enter either a cross or the specific characteristic capable to identify the component tested; — under component similar

enter a cross

Box 2 and 3 Manufacturer's name and location of plant where the components were manufactured and tested.

Box 4 Generic and detail specifications used during qualification program.

Box 5 Reference to test report(s) submitted in support of application.

Box 6 Enter details to identify the PID that was applicable at the time the qualification lot was manufactured.

Box 7 If the PID was evolved after qualification lot manufacture, adequate details of such evolution shall be provided together with

reasons for changes. Major changes shall be clearly marked.

Box 8 The box serves to identify the current PID and the Executive Representative that has verified it together with the date of this

occurrence.

Box 9 This box can be completed only after a physical visit to the plant to confirm that the practices, procedures, materials, 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 10 Details entered shall be sufficient to evidence that an evaluation program according to ESCC Basic Specification No. 22600

has been performed and that the results thereof are summarized in the survey and test reports. If the evaluation program has not been carried out according to established ESCC documents, the applicant Executive Representative shall provide alternative data and declare its assessed degree of satisfactory compliance with the ESCC basic requirements. Reference shall be made to the reports on Destructive Physical Analysis (DPA), Failure Analysis and Non conformance (NCCS) issued during

the Evaluation and/or Qualification Phase.

Box 11 Enter the name of the Executive Coordinator and the signature.

To be used when there is a need to expand any of the boxes from 1 through 10. Identify box affected and reference the Box 12 in the relevant Box. Box 12 can be broken into 12a, 12b, etc. if several Boxes have to be expanded. Box 12

Box 13 Fill table as requested.

Box 14 Fill in any additional tasks required to achieve full compliance.

Box 15 All Executive recommendations on the application itself, special conditions or restrictions, modifications of the QPL or ESCC

QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 15, signed by the ESA Representative.

Box 16 Fill in Table as requested.

**Box 17** Confidential details of PID changes shall be provided.

**Box 18** State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 18 each

nonconformance shall be sequentially numbered. If relevant state 'None

Any additional action deemed necessary by the Executive Representative 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 nonconformance. Box 19

Box 20 Additional Comments