## ESCC

## APPLICATION FOR ESCC QUALIFICATION APPROVAL

Component Title:

Capacitors, Fixed, Self-Healing, Non Inductive, PET Dielectric, Based on Types PM907S and PM948S

Executive Member:

CNES

Date: 11/02/2016

Appl. No. 338 6196

Page 1

ESCC COMPONENT, NO.	VARIANTS	RANGE OF COMPONENTS			BASED		TEST COMP		
3006025	01 to 08 09 to 16	See Detail Spec	ification		PM907S PM907R1S		PM907S 68µF ±10% 200V PM907R1S 33µF ±10% 17	SIMILAF	`
	17 to 24 25 to 32				PM907R25 PM907NS	3		×	
3006026	01 to 04 05 to 08	See Detail Specification			PM948S PM948NS		PM948S-4 27µF ±10% 63V PM948S-4 10µF ±10% 170V X		
Component Manufacturer 2 Location EXXELIA Technologies 105, rue du Gén 67441 MARMOU FRANCE			éral Lecle	TICO			ail/s: 748,09,390 and 741,09,390		
	anufacturing Synthesis, F sults and Analysis, Ref. E			Fef N Issue Date:	lo: Pl : A	facturin	g Qualification Lot PM907S Type PM948S		6
PID changes since sta	art of qualification	9	7 Curr	ent PID Ve	USSOCIATIONS 8	CNES			8
Major*	(* Details not published, confidential annex 2.)	provided in	Ref I	•		Α	Гуре РМ907S Туре РМ94 2015	8S <b>–</b> 749.09.390	
	facilities surveyed by:		5446	0.0045					9
			(a)	2/2015			_		
(Name of Executive R  CNES/DCT/AQ/CQ-2016  Report Ref  Satisfactory:	5/02955, 17/02/2015	No 🗆	(Dat	e)					
Quality and Reliability	Data			- 1					10
Evaluation testing perf	formed Yes 🗵	No 🗆	)		ilure analysis ailable	s, DPA,	NCCS Yes 2	No □	
Report Ref. No.: E	413 - TN 4.1 rev 1.1 Ind	. A Date: 25	5/11/2015	(s	upply data)				
Equivalent Data:				N	CCS 2CETE	01: see	box 13		
Certification:									
				Re	f Nos. and p	urpose:			
				7			umber CA 0660, August 2		



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Page 2 Appl. No. 338 C196

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.

11/02/2016

JP. BUSSENOT

(Signature of the Executive Coordinator)

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

12

11

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Appl. No. 338 -C196

Page 3

Non comp	pliance to ESCC requirement	ents:		L	13
No.:	Specifica	ation	Paragraph	Non compliance	
1,	ESCC 3006		8.1.1	Chart IV was not performed on "components whinhave successfully passed the tests in Charts II an III for Testing Level 'B"	ch nd
2.	ESCC 3006		10.1.1	Delivered Data Documentation Package not compliant with requirements	
Additional	tasks required to achieve t	full compliance for E	SCC qualification or rationale for ac	cceptability of	14
noncompli NCCS 2C	ETE601 refers : ——	NONE is PEN	DING -	MAL CLOSE-OUT	
Executive	Manager Disposition				15
Application Action / Re		No 🖸		Los	
Date:				Signature, ESA Representative	

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16

Page 4

## ANNEX 1: LIST OF TESTS DONE TO SUPPORT QUALIFICATION

Tests conducted in compliance with:

ESCC 3006 generic specification; Chart IV (for ESCC/QPL parts); Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

PM948S-4 27µF ±10% 63V DC 1521	PM948S-4 10µF ±10% 170V DC 1521			
PM907R1S 33µF ±10% 170V DC 1524	PM907S 68µF ±10% 200V DC 1518			

Detail Specification reference:

741.09.390 and 748.09.390

Chart IV	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed Comments on Rejection
Environmental / Mechanical Subgroup I	Corrosion		IEC 68-2-11	-			NA
	Seal Test		IEC 68-2-17				NA
um	Robustness of Teminations	×	IEC 68-2-21	1518 1521 1524	4 × 6	0	
ntal /	Resistance to Soldering Heat	×	IEC 68-2-20	1518 1521 1524	4 x 6	0	
Environmental / Mechanical Subgroup II (Column 1)	Temperature Coefficient	×	ESCC 3006, Para. 9.15	1518 1521 1524	4 x 6	0	
	Climatic Sequence	×	ESCC 3006, Para. 9.14	1518 1521 1524	4 x 6	0	
	Seal Test		IEC 68-2-17				NA
Environmental / Mechanical Subgroup II (Column 2)	Solderability	×	IEC 68-2-20	1518 1521 1524	4 x 6	0	
	Rapid Change of Temperature	×	IEC 68-2-14	1518 1521 1524	4 x 6	0	
	Vibration		IEC 68-2-6	1518 1521 1524	4 x 6	0	
	Shock or Bump	×	ESCC 3006, Para. 9.13	1518 1521 1524	4 x 6	0	
	Climatic Sequence	×	ESCC 3006, Para. 9.14	1518 1521 1524	4 x 6	0	
	Seal Test		IEC 68-2-17				NA
End uran ce Sub	Operating Life	×	ESCC 3006, Para. 9.16	1518 1521 1524	4 x 40	0	

	Electrical Measurements during Endurance Testing		ESCC 3006, Para. 9.6.5	1518 1521 1524	4 x 40	0	
	Permanence of Marking	×	ESCC 24800	1518 1521 1524	4 x 2	0	
Additional Tests	Temperature Coefficient		ESCC 3006	1518 1521 1524	4 x 6	0	
	2.5						



Box 17

**Box 18** 

Box 19

Box 20

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Appl. No.

Page 6

Executive Member: CNES Date: 11/02/2016 C196

## 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.
Box 12	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 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.

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.

Confidential details of PID changes shall be provided.

Additional Comments