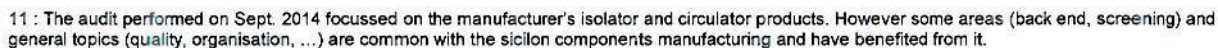


		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1 Appl. No. 286C	
Component Title: Capacitors, Microwave, Silicon, Naked Die, MOS, based on Types 101M, 201M, 400M and 401M		Executive Member: CNES		Date: 26/01/2015		
Components (including series and families) submitted for Extension of Qualification Approval: 1						
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR	
5711/002	03,06,09,10,13,16,19,22,23,30,31	40V	400M	400M110A101M		
	01,04,07,11,14,17,20,25,28	200V	201M	(571100223101M)		
	02,05,08,12,15,18,21,26,29	100V	101M			
Component Manufacturer Cobham Microwave		Location of Manufacturing Plant(s) 31, avenue de la Baltique 91978 Villebon-sur-Yvette Cedex France		Date of original qualification approval: Date: 15/12/2008 Certificate Ref No. 286		
ESCC Specifications used for Maintenance of qualification testing: Generic: 5010 Issue: 1 Detail(s): 5711/002 Issue: 2		Deviations to LVT testing and Detail Specification used: No ☒ Yes ☐ (supply details in Box 15) Deviation from current Specifications: No ☒ Yes ☐ (Supply details)		Qualification Extension Report reference and date: 2014121958-223 dated 22/12/2014		
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first) 8						
Project Name	Testing Level	LAT	Date code	Quantity Delivered		
PID changes since start of qualification None ☐ Minor* ☒ Major* ☐ *Provide details in box: Click here to enter text.		Current PID Verified by: CNES Name of Executive Representative Ref No: PID 302 Issue: G Date: 26/01/2015 Rev Date: 20/01/2015				
Current Manufacturing facilities surveyed by: ESA and CNES on 24/09/2014 (Name of Executive Representative) (Date) Satisfactory: Yes ☒ No ☐ Explain Report Reference: COBH-CIRC-AUD-2014						



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Component title: Capacitors, Microwave, Silicon, Naked Die, MOS, based on Types 101M, 201M, 400M and 401M

Executive Member: CNES

Date: 26/01/2015

Page 3

Appl. No.

286C

Non compliance to ESCC requirements:

15

No.:	Specification	Paragraph	Non compliance

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:

16

Executive Manager Disposition

17

Application Approval: Yes ☐ No ☐

Action / Remarks:

Date:

Signature, ESA Representative



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Executive Member: CNES

Date: 26/01/2015

Page 4

Appl. No.

286C

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

18

Tests conducted in compliance with:

- ESCC 5010 generic specification; Chart V (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

400M110A101M	

Detail Specification reference: 5711/002

Chart V	Test	Tick when done	Conditions	Date Code Diffusion Lot	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental/Mechanical Subgroups	Thermal Shock Test	☐	ESCC 5010 Para. 9.5.2				Not required (naked die)
	Shock Test	☐	MIL-STD-750 Test Method 2016				Not required (naked die)
	Vibration Test	☐	MIL-STD-750 Test Method 2056				Not required (naked die)
	Constant Acceleration	☐	MIL-STD-750 Test Method 2006				Not required (naked die)
	Seal Test	☐	MIL-STD-750 Test Method 1071				Not required (naked die)
	Moisture Resistance	☐	MIL-STD-750 Test Method 1021				Not required (naked die)
	Seal Test	☐	MIL-STD-750 Test Method 1071				Not required (naked die)
	Electrical Measurements at Room Temp.	☐	Table 2 of the Detail Specification				Not required (naked die)
	External Visual Inspection	☐	ESCC Basic Specification No. 20500				Not required (naked die)
Endurance Subgroup	Operating Life	☒	MIL-STD-750 Test Method 1038	1402	10	0	
	Electrical Measurements during Endur. Test	☒	Table 6 of the Detail Specification	1402	10	0	
	External Visual Inspection	☐	ESCC Basic Specification No. 20500				Not required (naked die)



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Executive Member: CNES

Date: 26/01/2015

Page 5

Appl. No.

286C

Chart V	Test	Tick when done	Conditions	Date Code Diffusion Lot	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Electrical Subgroup – Electrical Measurements	Electrical Measurements at Room Temp.	☒	Table 2 of the Detail Specification	1402	5	0	
	Electrical Measurements at High & Low Temp's	☒	Table 3 of the Detail Specification	1402	5	0	
	External Visual Inspection	☐	ESCC Basic Specification No. 20500				Not required (naked die)
	Special Testing	☒	The Detail Specification	1402	5	0	
Electrical Subgroup – Assembly Capability Tests	Solderability Test	☐	MIL-STD-750 Test Method 2026				Not required (naked die)
	Permanence of Marking	☐	ESCC Basic Specification No. 24800				Not required (naked die)
	Terminal Strength	☐	MIL-STD-750 Test Method 2036				Not required (naked die)
Additional Tests		☐					
		☐					
		☐					

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Date: 26/01/2015

Page 7

Appl. No.

286C

NOTES 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.

Box 22

Additional Comments.