APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

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Component Title: CONNECTORS, RF, COAXIAL, SOLDER AND CRIMP CONTACTS, MALE, FEMALE ADAPTORS AND CONNECTING PIECES, BASED ON TYPE SMA

Appl. No. 68P

Executive Member: CNES Date: 09/01/~~2017~~ 2018

1

Components (including series and families) submitted for Extension of Qualification Approval:

ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3402/001	01 to 47	Frequency Range 0-18 GHz	SMA	340200110B201	
3402/002	01 to 85	Crimp or solder-type contact for flexible and semi-rigid cables, contacts for micro strip		340200201B201 340200222B301 340200232B101 340200262B201	
3402/003	01 to 14	Shell material and finish: Berylium copper gold plated, copper or nickel underplate; stainless steel,		340200304B301 340200312B401 340200314B201	

2 Component Manufacturer

RADIALL

3 Location of Manufacturing Plant(s)

RADIALL
(Usine de L'Isle d'Abeau)
Z.I. Chesnes Tharabie- BP 709
38295 Saint Quentin Fallavier (France

4

Date of original qualification approval:
Date: 01/02/1981

Certificate Ref No. 68

5

ESCC Specifications used for Maintenance of qualification testing:

Generic: 3402 Issue : 2

Detail(s): 3402/001 Issue : 3

3402/002 Issue 5
3402/003 Issue 3

6

Deviations to LVT testing and Detail Specification used:

No ☒ Yes ☐ (supply details in Box 15)

Deviation from current Specifications:

No ☒ Yes ☐ (Supply details)

7

Qualification Extension Report reference and date:

PV n° 2017.36.5088, 30/11/2017

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
See PID				

9

PID changes since start of qualification

None ☐
Minor* ☒
Major* ☐ *Provide details in box:

10

Current PID Verified by: Sauveplane Jean-baptiste
Name of Excutive Representative

Ref No: PAQP-A 0014 (F)
Issue: 9 Date: 09/01/~~2017~~ 2018
Rev Date: 27/11/2017

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Current Manufacturing facilities surveyed by: Sauveplane Jean-baptiste on 01/06/2017
(Name of Executive Representative) (Date)

Satisfactory: Yes ☒ No ☐ Explain

Report Reference: CRIM_1018903_Radiall + RADIA-AUD-7012 (QES/LB/120501)

ESCC	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL	Page 2
	Component title: CONNECTORS, RF, COAXIAL, SOLDER AND CRIMP CONTACTS, MALE, FEMALE ADAPTORS AND CONNECTING PIECES, BASED ON TYPE SMA	Appl. No.
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Failure Analysis, DPA, NCCS available: Yes ☐ No ☒ (Supply data)

Ref. No's and purposes:

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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 15;) - that the reports and data are available at the ESCC Executive and therefore applies on behalf of CNES as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: 17/01/2018

JP. BUSSENOT
(Signature of the Executive Coordinator)

Continuation of Boxes above:

14

15

Non compliance to ESCC requirements:

No.:	Specification	Paragraph	Non compliance

16

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

17

Executive Manager Disposition

Application Approval: Yes ☑ No ☐

Action / Remarks:

Date:

Signature, ESA Representative

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

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Tests conducted in compliance with:

- ESCC 3402 generic specification; Chart V (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

340200110B201	340200201B201 340200222B301 340200232B101 340200262B201
340200304B301 340200312B401 340200314B201	

Detail Specification reference: 3401/001/002/003

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental / Mechanical Subgroup	Contact Resistance	☒	ESCC 3402, Para. 9.9	1707	8	0	
	Corrosion	☒	IEC 68-2-11	1707	4	0	
	Vibration	☒	IEC 68-2-6	1707	4	0	
	Rapid Change of Temperature	☒	IEC 68-2-14	1707	4	0	
	Permanence of Marking	☐	ESCC 24800				NA
	Cable Retention Force	☒	ESCC 3402, Para. 9.14	1707	2	0	
	Endurance	☒	ESCC 3402, Para. 9.18	1707	8	0	
	Seal Test	☒	ESCC 3402, Para. 9.7	1707	2	0	
Electrical and Endurance Subgroup	Cabling and Crimping Capability	☒	ESCC 3402, Para. 9.15	1707	4	0	
	VSWR	☒	ESCC 3402, Para. 9.16	1707	2	0	
	RF Insertion Loss	☒	ESCC 3402, Para. 9.19	1707	6	0	
	Coupling Proof Torque	☒	IEC 410	1707	12	0	
	Contact Resistance	☒	ESCC 3402, Para. 9.9	1707	12	0	
	Seal Test	☒	ESCC 3402, Para. 9.7	1707	2	0	
	Plating Thickness (Hermetic)	☒	ESCC 3402, Para. 9.29	1707	2	0	
Additional Tests		☐					
		☐					
		☐					

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.