APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

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Component Title: ,RF COAXIAL CONNECTORS , TNC, VERY HIGH POWER, 50 OHMS BASED ON TYPE TNC VHP

Appl. No. 350C

Executive Member: CNES Date: 12/05/2025

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
3402/027	01 & 02	Frequency Range 0-8 GHz designed for RF power applications	TNC type	340202701B 340202702B	
3402/028	01 to 06	Straight and right angle adaptors very high power 50 Ohms	TNC type	340202803B 340202802B	

2 Component Manufacturer

Radiall

3 Location of Manufacturing Plant(s)

RADIALL (Usine de Centr'alp) 642 Rue emile Romanet 38340 voreppe (France)

4 Date of original qualification approval:

Date: 01/04/2020

Certificate Ref No. 350

5 ESCC Specifications used for Maintenance of qualification testing:

Generic: 3402 Issue 6

Detail(s): 3402/027 Issue 3 :

3402/028 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:

TEST REPORT n° 2024.22.058 du 25/09/2024

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 Annex 4				

9 **PID** changes since start of qualification

None ☐

Minor* ☒

Major* ☐ *Provide details in box: see box 14

10 Current **PID** Verified by: CNES

Name of Excutive Representative

Ref No: PAQP- VOR 0065(F)

Issue: 2 rev. A Date: 20/03/2025

Rev Date: 03/12/2024

11 Current Manufacturing facilities surveyed by: CNES on 16/01/2020

(Name of Executive Representative) (Date)

Satisfactory: Yes ☐ No ☐ Explain

Report Reference: CR_visite_radiall_16_01_2020

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Failure Analysis, DPA, NCCS available: Yes ☒ No ☐ (Supply data)

Ref. No's and purposes: 2CRAD501 deviation closed

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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.

L.FONTAINE

Date: 12/05/2025

Fontaine Lya Signature numérique de Fontaine Lya Date : 2025.05.12 14:00:12 +02'00'

(Signature of the Executive Coordinator)

Continuation of Boxes above:

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Box 5, box 6 and Box 9:

PID refers to the generic specification ESCC 3402 issue 6 (

Box 12

Updated PID
Updated ESCC documentation & Radiall documentation, pages 5,15,16
Updated organization chart Page 8,9,10,11,12

15

Non compliance to ESCC requirements:

No.:	Specification	Paragraph	Non compliance
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.

16

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of non-compliance

17

Executive Manager Disposition

Application Approval: Yes ☒ No ☐

Action / Remarks:

Date:

Ali Zadeh Digitally signed by Ali Zadeh Date: 2025.06.02 10:36:05 +02'00'

A.Zadeh: Head of the Avionics and EEE Division

ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION 18

Tests conducted in compliance with:

- ESCC 3402 generic specification; Chart V (for ESCC/QPL parts);
- Or PID-TFD PAQP-VOR 0065 (F) issue 02 rev A (for ESCC/QML parts)

Tests vehicle identification/description:

ESCC 340202701B (DC2410A)	
ESCC 340202702B (DC 2410A) ESCC 3340202803B (DC2336A) ESCC 340202802B (DC2410a),)	

Detail Specification reference: Click here to enter text.

Chart	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
ESCC 3402 issue 6 chart F4	Mating and unmating Force	☒	ESCC 3402, Para. 8.11	2410A 2410A 2336A 2410A	4,2,2,3	0	
	Random Vibration	☒	ESCC 3402, Para. 8.15	2410A 2410A 2336A 2410A	4,2,2,3	0	
	Mechanical shock	☒	ESCC 3402, Para. 8.16	2410A 2410A 2336A 2410A	4,2,2,3	0	
	Temperature cycling	☒	ESCC 3402, Para. 8.8	2410A 2410A 2336A 2410A	4,2,2,3	0	
	Thermal Stability of insertion loss	☒	ESCC 3402, Para. 8.17	2410A 2336A 2410A	2,2,3	0	
	Shielding effectiveness	☒	ESCC 3402, Para. 8.18	2336A 2410A	2,3	0	
	Electrical measurements at room temperature	☒	ESCC 3402, Para. 8.9.9	2410A 2410A 2336A 2410A	4,2,2,3	0	
	Endurance	☒	ESCC 3402, Para. 8.19	2410A 2410A 2336A 2410A	4,2,2,3	0	
	Seal	☐	ESCC 3402, Para. 8.13	Click here to enter text.	Click here to enter text.		
	Coupling Proof Torque	☒	ESCC 3402, Para. 8.10	2410A 2410A 2336A 2410A	4,2,2,3	0	
	External Visual Inspection	☒	ESCC 3402, Para. 8.14	2410A 2410A 2336A 2410A	4,2,2,3	0	

	Destructive Physical Analysis	☐	ESCC 3402, Para. 8.17	2410A 2410A 2336A 2410A	1,1,1,1	0	

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.