		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1
		Component Title: RF COAXIAL CONNECTORS, TNC, VERY HIGH POWER, 50 OHMS BASED ON TYPE TNC-VHP			Appl. No.
		Executive Member: CNES		Date: 07/01/2021	
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
3402/027	01 & 02	Frequency Range 0-8 GHz designed for RF Power Applications	TNC type	34020701B – 1939B samples 1 to 4-1939A-samples 5 to 14	
3402/028	01 to 06	Straight and right angle adaptors, very high Power 50 Ohms	TNC type	R340202803B-R14370464 samples 1 to 5 and 5 bis R4020804B-R143771604 samples n°6 to 9 and 9 bis	
Component Manufacturer RADIALL		Location of Manufacturing Plant(s) RADIALL (Usine de L'Isle d'Abeau) Z.I. Chesnes Tharabie- BP 709 38295 Saint Quentin Fallavier (France)		Date of original qualification approval: Date: 09/01/2018 Certificate Ref No. 350	
ESCC Specifications used for Maintenance of qualification testing: Generic: 3402 Issue 4 Detail(s): 3402/027 Issue 2 3402/028 :		Deviations to LVT testing and Detail Specification used: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)		Qualification Extension Report reference and date: Test report n° 2019.44.5588 Rev-, 18/12/2019 Test Report n°2020.39.5760 Rev-, 9/12/2020 VOQ information CNES ESCC3402-027 et 028_10.12.2020_V3, 10/12/2020	
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	
See PID appendix 4					
PID changes since start of qualification		Current PID Verified by:		Quadri Gianandrea, CNES	
None <input type="checkbox"/>		Ref No: PAQP IDA 0024 (F)		Name of Executive Representative	
Minor* <input checked="" type="checkbox"/>		Issue: 2A		Date: 12/12/2020	
Major* <input type="checkbox"/> *Provide details in box:		Rev Date: 04/12/2020			
Current Manufacturing facilities surveyed by: G. Quadri, CNES and JB Sauveplane, CNES on 17/01/2020					11
(Name of Executive Representative) (Date)					
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain					
Report Reference: <u>CRvisite_radiall_17_01_2020.pdf</u>					



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Page 2

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

Appl. No.

Executive Member: CNES

Date: 07/01/2021

350A

12

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

Ref. No's and purposes:

13

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: 13/01/2021

JP. BUSSENOT, CNES
(Signature of the Executive Coordinator)

14

Continuation of Boxes above:



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

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

Executive Member: CNES

Date: 07/01/2021

Page 3

Appl. No.

350A

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:

 Digitally signed by Britta Schade
Date: 2021.02.03 10:34:09 +01'00'

B. Schade: Head of the Product Assurance and Safety Department



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 (for ESCC/QML parts)

Tests vehicle identification/description:

34020701B (DC1939A) 34020701B (DC1939B)	
340202803B (DC2026A), 340202804B (DC 2026A)	

Detail Specification reference: ESCC 3402/027 issue 2; ESCC 3402/028 issue 2

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	<input checked="" type="checkbox"/>	ESCC 3402, Para. 9.9	1939A & 1939B	8	0	
	Corrosion	<input checked="" type="checkbox"/>	IEC 68-2-11	1939B	4	0	
	Vibration	<input checked="" type="checkbox"/>	IEC 68-2-6	1939A	4	0	
	Rapid Change of Temperature	<input checked="" type="checkbox"/>	IEC 68-2-14	1939A	4	0	
	Permanence of Marking	<input type="checkbox"/>	ESCC 24800				N.A.
	Cable Retention Force	<input type="checkbox"/>	ESCC 3402, Para. 9.14				N.A.
	Endurance	<input checked="" type="checkbox"/>	ESCC 3402, Para. 9.18	1939A & 1939B	8	0	
Seal Test	<input type="checkbox"/>	ESCC 3402, Para. 9.7				N.A.	
Electrical and Endurance Subgroup	Cabling and Crimping Capability	<input type="checkbox"/>	ESCC 3402, Para. 9.15				N.A.
	VSWR	<input checked="" type="checkbox"/>	ESCC 3402, Para. 9.16	1939A	6	0	
	RF Insertion Loss	<input checked="" type="checkbox"/>	ESCC 3402, Para. 9.19	1939A	6	0	
	Coupling Proof Torque	<input checked="" type="checkbox"/>	IEC 410	1939A	6	0	
	Contact Resistance	<input checked="" type="checkbox"/>	ESCC 3402, Para. 9.9	1939A	6	0	
	Seal Test	<input type="checkbox"/>	ESCC 3402, Para. 9.7				N.A.
Additional Tests Deviation from Lot acceptance test (chart V) :	Endurance: 50 mating/unmating cycles	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	4*	0	
	Vibration: sine and random	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	4*	0	
	Mechanical Shock	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	4*	0	
	Rapid change of temperature	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	4*	0	
	Endurance: 450 mating/unmating cycles	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	4*	0	

	Permanence of marking	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	4*	0	Not applicable on engraved parts
	External visual inspection	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	4*	0	
	DPA	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	2*	0	
	RF insertion Loss	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	3*	0	
	VSWR	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	3*	0	
	Coupling proof torque	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	3*	0	
	Mating/unmating forces	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	3*	0	
	Contact resistance	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	3*	0	
	External visual inspection	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	3*	0	
	Residual Magnetism	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	2*	0	
	Soldering proof	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	2*	0	
	RF Leakage	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	2*	0	
	High Temperature Storage	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	2*	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	See appendix A in ESCC3402/028 issue 2	2026A	2*	0	
	Multipactor	<input type="checkbox"/>	See appendix A in ESCC3402/028 issue 2				Not applicable, no change of design
	Power Handling	<input type="checkbox"/>	See appendix A in ESCC3402/028 issue 2				Not applicable, no change of design
	Corona	<input type="checkbox"/>	See appendix A in ESCC3402/028 issue 2				Not applicable, no change of design
External Visual Inspection	<input type="checkbox"/>	See appendix A in ESCC3402/028 issue 2				Not applicable, no change of design	
Additional Tests	Power Handling	<input checked="" type="checkbox"/>	ESCC 3402/027 issue 2 Para 4.2.5 & 4.3.11	1939A	6	0	

Note:

*1 adaptor is equivalent to two connectors



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

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

Executive Member: CNES

Date: 07/01/2021

Page 6

Appl. No.

350A

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.