


		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1						
Component Title:		CONNECTORS,RF, COAXIAL, SOLDER AND CRIMP CONTACTS, MALE, FEMALE ADAPTORS AND CONNECTING PIECES,BASED ON TYPE SMA 2.9			Appl. No.						
Executive Member:		CNES			Date: 12/05/2025						
					283 H						
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	
3402/021		01 to 5 & 07		Frequency Range 0-40 GHz Frequency Range 0-36 GHz		SMA 2.9		340202101B301 340202102B301 1			
3402/022		01 to 05		Solder type contact for flexible and semi rigid cables, contacts for micro strip				340202203B301 340202202B301			
3402/023		01 to 06		Shell material and finish: passivated amafnetic stainless steel, Operating temperature range (°C): -65 to +165				340202302B301			
Component Manufacturer		2		Location of Manufacturing Plant(s)		3		Date of original qualification approval:		4	
Radiall				RADIALl (Usine de Centr'alp) 642 Rue emile Romanet 38340 vireppe (France)				Date: 01/12/2007			
								Certificate Ref No. 283			
ESCC Specifications used for Maintenance of qualification testing:		5		Deviations to LVT testing and Detail Specification used:		6		Qualification Extension Report reference and date:		7	
Generic: 3402 Issue 6				No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> (supply details in Box 15)				TEST REPORT n° 2024.12.036 du 16/12/2024			
Detail(s): 3402/021 Issue 5				Deviation from current Specifications:				TEST REPORT n°2023.50.145 du 19/02/2024			
3402/022 Issue 6				No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)							
3402/023 Issue 8											
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 Annex 4											
PID changes since start of qualification		9		Current PID Verified by:		CNES		Name of Excutive Representative		10	
None <input type="checkbox"/>				Ref No: PAQP- VOR 0064(F)							
Minor* <input checked="" type="checkbox"/>				Issue: 2 rev. A				Date: 15/04/2024			
Major* <input type="checkbox"/>		*Provide details in box:		Rev Date: 15/04/2024							
		see box 14									
Current Manufacturing facilities surveyed by:						CNES		on		16/01/2020	
						(Name of Executive Representative)				(Date)	
Satisfactory:		Yes <input type="checkbox"/>		No <input type="checkbox"/>		Explain					
Report Reference:		CR_visite_radiall_16_01_2020									

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Failure Analysis, DPA, NCCS available: Yes <input type="checkbox"/> No <input type="checkbox"/> (Supply data)		12
Ref. No's and purposes:		
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.		13
Date: 12/05/2025	<div>Fontaine Lya</div> <div>Signature numérique de Fontaine Lya</div> <div>Date : 2025.05.12</div> <div>(Signature of the Executive Coordinator)</div>	L. FONTAINE
Continuation of Boxes above:		14
Box 5, box 6 and Box 9: PID refers to the generic specification ESCC 3402 issue 6 (Box 12 Modification of PID Following the completion of the VOQ, changes to pages 4-6-8 following document updates Page 4 – Modification of specifications issues Pages 6 and 8 following organizational chart updates Appendices updated due to version issue		

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Appl. No.		283 H		15
Non compliance to ESCC requirements:				
No.:	Specification	Paragraph	Non compliance	
1	ESCC 3402 issue 6	12.4	Deviation from Chart F4 Sequence	
Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of non-compliance				
The justification for the deviation is described hereafter: For the following categories which refer to connector to be cabled on semirigid cables or flexible cables: ESCC3402/021 Variants 01 and 02 ESCC3402/022 Variants 01 and 02 ESCC3402/021 Variants 03 to 05 A RFD S240401 rev.A has been applied and consists in the following steps: In Lot Validation testing Flow Chart (F4) of ESCC3402 issue 6, Random vibration and Electrical measurement are required: cable assembly is needed to electrically characterize the connectors. Being not sustainable the random vibration level (50 grms) required by the ESCC3402 issue 6 for the concerned cable assemblies, additional pigtailed have been dedicated to this purpose. In parallel taking advantage of a renewal of a capability approval under CNES control for cable assemblies, ESCC3408 chart F4B has been deployed only for connectors in these specific configurations (i.e. the ones to be crimped and brazed for cables).				
Executive Manager Disposition				
Application Approval: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Action / Remarks:				
<div style="text-align: right;">  Digitally signed by Ali Zadeh Date: 2025.06.02 10:38:57 +02'00' </div> <div style="text-align: right; margin-top: 5px;"> A.Zadeh: Head of the Avionics and EEE Division </div>				

**APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

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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 PAQP-VOR 0064 (F) issue 02 rev A (for ESCC/QML parts)

Tests vehicle identification/description:

ESCC 340202101B301 (DC2345A)	
ESCC 340202102B301 (DC 2347A) ESCC 340202203B301 (DC2339A) ESCC 340202303B301 (DC2339B), ESCC 340202302B301 (DC2339A))	

Detail Specification reference:

Chart	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
ESCC 3402 issue 5 chart F4	Mating and unmating Force	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.11	2339A 2339B 2210A 2350A	4,2,2,4	0	
	Random Vibration	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.15	2345A 2347A 2339A 2339B 2210A 2350A	3,3 4,2,2,4	0	
	Mechanical shock	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.16	2339A 2339B 2210A 2350A	4,2,2,4	0	
	Temperature cycling	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.8	2339A 2339B 2210A 2350A	4,2,2,4	0	
	Thermal Stability of insertion loss	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.17	2339B 2210A	2,2	0	Only applicable to connector transition, adaptor and connecting piece components
	Shielding effectiveness	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.18	2339B 2210A	2,2	0	Only applicable to connector transition, adaptor and connecting piece components
	Electrical measurements at room temperature	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.9.9	2339A 2339B 2210A 2350A	4,2,2,4	0	
	Endurance	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.19	2339A 2339B 2210A 2350A	4,2,2,4	0	
	Seal	<input type="checkbox"/>	ESCC 3402, Para. 8.13	Click here to enter text.	Click here to enter text.		Only applicable to hermetically sealed, barrier-sealed or panel-sealed components
	Coupling Proof Torque	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.10	2339A 2339B 2210A 2350A	4,2,2,4	0	

	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.14	2339A 2339B 2210A 2350A	4,2,2,4	0	
	Destructive Physical Analysis	<input type="checkbox"/>	ESCC 3402, Para. 8.17	2339A 2350A	2	0	

