

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title:

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

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	-	Executive Member:	CNES		Date: 04/07/20	22	350 B
Components (includi	ng series and families	submitted for Extension	n of Qualification	Approval:			1
ESCC COMPONENT NO.	VARIANTS	RANGE OF CO	MPONENTS	BASEI	D TEST VEHICLE		COMPONENT SIMILAR
3402/027	01 & 02	Frequency Range 0 designed for RF Por		TNC type	34020702B va 02 - RADIALL IDENTIFICAT R143.417.604 workshop bate 2151633433, datecode 215 samples 1 to	ION , ch	
3402/028	01 to 06	Straight and right ar adaptors,very high f		TNC type	340202802B v 02 R34020280 RADIALL IDENTIFICAT R143.705.604 workshop bate 2204665193, datecode 220; sample 7 340202805B v 05 R34020280 RADIALL IDENTIFICAT R143.770.604 workshop bate 2201639955, datecode 220; sample 8	ION , , ch 25A, variant 22B- ION , , th	
0	anufacturer 2		- f- t- i Dit	(s) 3			
Component Ma Radial	and actured 2	RADIALL (Centralp, 38340 Voreppe (Fra		.,	Date of original qualificate: 09/01. Certificate Ref No.		:
	5			6			7
ESCC Specifications Maintenance of qualif		Deviations to LVT te used:	sting and Detail S	pecification	Qualification Extensio reference and date:	n Report	
Generic: 3402	Issue 5	No □ Yes		etails in Box	Test report n. 2022.16	5.026 Rev1 24/0	06/2022
Detail(s): 3402/028 3402/028		Deviation from curre	15) ent Specifications: ☑ (Supply o				
			ATT CONTROL OF THE STATE OF THE				
Summany of procures	nent or equivalent took	reculte during ourgest w	alidity period in a	nnort of this an	plication (those to ESC)	Clisted first)	8
Project Name	Testing Level	LAT		Date code		Quantity Deliver	red
					See annex		
					_		
					i		
PID changes since sta	art of qualification	9	Current PID V	erified by:	G Out	dri,CNES	10
None None	an or quaimoation	[_9_	Juneill ID V	critica by.	Name of Excutive		
Minor*			Ref No: F	PAQP VOR 006			
Major* □	*Provide details in box		Issue: 1	rev.A		Date:	25/05/2022

					Rev Date: 05/07/2022			344
Current Manufacturing facilities surveyed by:				CNES/ESA		on	12/04/2022	11
					(Name of Executive Representative)	_	(Date)	
Satisfactory:	Yes	\boxtimes	No		Explain			
Report Reference:	1	DTN/QE/CC	Q-2022.000	5817	-			

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ESCC	Component title:	RF COAXIA BASED ON	AL CONNECTORS, TNC, TYPE TNC-VHP	VERY H	IIGH POWER, 50 OHMS	Appl. No.
	Executive Member:	CNES		Date:	04/07/2022	350 B
Failure Analysis, DPA, NCCS ava	ilable: Yes	⊠ No	☐ (Supply data)			12
Ref. No's and purposes: 2CRAD04 d	leviations CLOSED					
The undersigned hereby certifies on behalf that the appropriate documentation has bee (except as stated in box 15;) - that the repor CNES as the responsible Executive Member	n evaluated; - that full ts and data are availa	compliance to ble at the ESC	all ESCC requirements in all ESCC requirements in all ESCC Executive and therefore	is evidend re applies	on behalf of	Gale
Date: 04/07/2022				(Si	gnature of the Executive C	oordinator)
Continuation of Boxes above:						14

Box: extension of qualification approval refers to the new manufacturing site of Centr'alp which takes the place of the the former one (Isle d'Abeau)
Box 6: deviations from ESCC 3402 issue 5 are listed in NCCS 2CRAD04. They refer to the following items:

1/The screening of final production tests was carried out in accordance with chart II of the specification ESCC3402 Issue 4 to allow a comparison between

CTA and IDA manufacturing sites
2/ The detail specifications applied for the qualification are the draft versions associated with the update of the ESCC 3402 issue 5

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No.:	Specification	Paragraph	Non compliance		
	ESCC3402 issue 5	12.3	Screening sequence(chart F3) not accomplished test vehicles (production and controls performed in compliance with issue 4)		
				_	
Additional noncompl	I tasks required to achieve full compliand	e for ESCC qualification or rationale for accep	tability of	1	
Executive	e Manager Disposition			1	

Date:

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

ESCC

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Executive Member: CNES

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

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:

340202702 (DC 2151A)	340202802 (DC 2205A)	
340202805 (DC 2201A)		

Detail Specification reference:

ESCC 3402/027 issue 2; ESCC 3402/028 issue 2

Chart	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
	Mating and unmating Force	×	ESCC 3402, Para. 8.11	2151A, 2101A 2205A	6,1,1	0	
	Random Vibration	×	ESCC 3402, Para. 8.15	2151A, 2101A 2205A	6,1,1	0	
	Mechanical shock		ESCC 3402, Para. 8.16	2151A, 2101A 2205A	6,1,1	0	
	Temperature cycling	\boxtimes	ESCC 3402, Para. 8.8	2151A, 2101A 2205A	6,1,1	0	
	Thermal Stability of insertion loss	\boxtimes	ESCC 3402, Para. 8.17	2151A, 2101A 2205A	6,1,1	0	
	Shielding effectiveness	\boxtimes	ESCC 3402, Para. 8.18	2101A 2205A	1,1	0	Only applicable to connector transition, adaptor and connecting piece components
	Electrical measurements at room temperature	⊠	ESCC 3402, Para. 8.9.9	2151A, 2101A 2205A	6,1,1	0	
	Endurance	⊠	ESCC 3402, Para. 8.19	2151A, 2101A 2205A	6,1,1	0	
	Seal		ESCC 3402, Para. 8.13	Click here to enter text.			Only applicable to hermetically sealed, barrier-sealed or panel sealed components
	Coupling Proof Torque		ESCC 3402, Para. 8.10	2151A, 2101A 2205A	6,1,1	0	
	External Visual Inspection		ESCC 3402, Para. 8.14	2151A, 2101A 2205A	6,1,1	0	
	Destructive Physical Analysis	⊠	ESCC 3402, Para. 8.17	2151A 2205A	1,1	0	



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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.