



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: CONNECTORS, RF, COAXIAL, SOLDER AND CRIMP CONTACTS, MALE, FEMALE ADAPTORS AND CONNECTING PIECES, BASED ON TYPE SMA
 Executive Member: CNES Date: 20/12/2013

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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
3402/001	01 to 47	Frequency Range 0-18 GHz	SMA	3402001: 02 & 27	
3402/002	01 to 85	Crimp or solder-type contact for flexible and semi-rigid cables, contacts for micro strip		3402002: 68 & 31	
3402/003	01 to 14	Shell material and finish: Beryllium copper gold plated, copper or nickel underplate; stainless steel,		3402003: 02 & 09	

Component Manufacturer RADIALL	2	Location of Manufacturing Plant(s) RADIALL (Usine de L'Isle d'Abeau) Z.I. Chesnes Tharabie- BP 709 38295 Saint Quentin Fallavier (France)	3	Date of original qualification approval: Date: 01/02/1981 Certificate Ref No. 68	4
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ESCC Specifications used for Maintenance of qualification testing: Generic: 3402 Issue: 2 Detail(s): 3402/00 Issue: 2 1 3402/002 Issue: 3 3402/003 Issue: 2	5	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)	6	Qualification Extension Report reference and date: PV n°2013.36.4010, November the 4th 2013, see appendix 1	7
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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				
3402/001	B	-	Q2 2011 to Q2 2013	2146
3402/002	B	-	Q2 2011 to Q2 2013	13092
3402/003	B	-	Q2 2011 to Q2 2013	4554

PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box:	9	Current PID Verified by: <u>Sauveplane Jean-baptiste</u> Name of Executive Representative Ref No: PAQP-A 0014 Issue: 7 Date: 20/12/2013 Rev Date: 22/11/2013	10
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Current Manufacturing facilities surveyed by: <u>Sauveplane Jean-baptiste</u> on <u>03/10/2013</u> (Name of Executive Representative) (Date)	11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain	
Report Reference: <u>CRIM_982024</u>	



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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: 23/12/2013

JP. BUSSENOT
(Signature of the Executive Coordinator)

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Continuation of Boxes above:



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Non compliance to ESCC requirements:

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No.:	Specification	Paragraph	Non compliance

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

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Executive Manager Disposition

Application Approval: Yes No

Action / Remarks:

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Date: 17.01.2014

Signature, ESA Representative



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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 F4 (for ESCC/QPL parts);
- PID- (for ESCC/QML parts)
- TFD (for ESCC/QML parts)

Tests vehicle identification/description:

See appendix 1	

Detail Specification reference:

Chart IV	Test	Tick when done	Conditions	DC Diffusion Lot	Tested Qty	N° of Rejects	Comments if not performed, Comments on Rejection
Subgroup 1	Contact resistance	<input checked="" type="checkbox"/>	ESCC 3402 Para. 8.13	1331 1316 1302 1328 1324	14	0	
	Vibration	<input checked="" type="checkbox"/>	ESCC 3402 Para. 8.14	1316 1302	4	0	
	Shock	<input type="checkbox"/>	ESCC 3402 Para. 8.15				NA in extension of qualification
	Rapid change of temperature	<input checked="" type="checkbox"/>	ESCC 3402 Para. 8.15	1316 1302	4	0	
	Persistence of marking	<input type="checkbox"/>	ESCC 24800				NA to engraved connectors
	Climate sequence	<input type="checkbox"/>	ESCC 3402 Para. 8.18				NA in extension of qualification
	Cable retention force	<input type="checkbox"/>	ESCC 3402 Para. 8.19				NA for tested variants
	Coupling proof torques	<input checked="" type="checkbox"/>	ESCC 3402 Para. 8.9	1328 1331 1324	6	0	
	Mating / Unmating forces	<input type="checkbox"/>	ESCC 3402 Para. 8.10				NA in extension of qualification
	Seal	<input type="checkbox"/>	ESCC 3402 Para. 8.12				NA in extension of qualification
Subgroup 2	External visual inspection	<input type="checkbox"/>	ESCC 20500				NA in extension of qualification
	RF insertion loss	<input checked="" type="checkbox"/>	ESCC 3402 Para. 8.22	1324	2	0	
	Cabling and crimping capability	<input checked="" type="checkbox"/>	ESCC 3402 Para. 8.20	1328 1331	4	0	
	VSWR or Return Loss	<input checked="" type="checkbox"/>	ESCC 3402 Para. 8.21	1328 1331	4	0	
	Corrosion level	<input type="checkbox"/>	ESCC 3402 Para. 8.23				NA in extension of qualification
	Endurance	<input checked="" type="checkbox"/>	ESCC 3402 Para. 8.24	1331 1316 1302	8	0	
Subgroup 3	Seal	<input type="checkbox"/>	ESCC 3402 Para. 8.12				NA in extension of qualification
	Corrosion	<input checked="" type="checkbox"/>	ESCC 3402 Para. 8.25	1331 1316	4	0	
	Seal	<input type="checkbox"/>	ESCC 3402 Para. 8.12				NA in extension of qualification
Subgroup 4	Finishing thickness	<input type="checkbox"/>	ESCC 3402 Para. 8.3				NA in extension of qualification
	Residual magnetism	<input type="checkbox"/>	ESCC 3402 Para. 8.26				NA in extension of qualification
	Soldering proof	<input type="checkbox"/>	ESCC 3402 Para. 8.27				NA in extension of qualification
	RF leakage	<input type="checkbox"/>	ESCC 3402 Para. 8.28				NA in extension of qualification
	High temperature storage	<input type="checkbox"/>	ESCC 3402 Para. 8.29				NA in extension of qualification
	Seal	<input type="checkbox"/>	ESCC 3402 Para. 8.12				NA in extension of qualification



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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.