



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: CONNECTORS,RF, COAXIAL, SOLDER AND CRIMP CONTACTS, MALE, FEMALE ADAPTORS ANDCONNECTING PIECES.BASED ON TYPES SMA, SMA 2.92 TNC and SMP

Executive Member: Thilo Kaupisch (DLR)

Date: 16/12/2019

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Components (including series and families) submitted for Extension of Qualification Approval:

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ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3402/001, 3402/002, 3402/003	1 to 10, 12 to 18, 20 to 30,32 to 35, 37 to 47 1 to 24, 27 to 32,34, 36 to 51, 53 to 61, 65 to 72 1 to 6, 8 to 14		SMA	02LS121-K00S9-A 3402/023 Variant 03 female and male side	3402/002 Var 72 is similar to Var 16 and was added
3402/008 3402/009 3402/010	1 to 7 1 to 3 1 to 5		TNC		3402/009 Var 4 and 5 deleted, as deleted in Detail Specification
3402/021 3402/022 3402/023	1 to 5, 7 1 to 5 1 to 6		SMA2.9		
3402/024 3402/025 3402/026	1 to 26, 28 to 35 1 to 14 1 to 13		SMP		

Component Manufacturer	2	Location of Manufacturing Plant(s)	3	Date of original qualification approval:	4
Rosenberger Hochfrequenztechnik GmbH Co. KG		Fridolfing, Germany Hauptstrasse		Date: 01/12/2013	
				Certificate Ref No. 329	

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
<u>Generic:</u> 3402 Issue: 4		No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15)		19_2653 Index 1	
Detail(s): 3402/001 Issue: 3 3402/002 8 3402/003 4 3402/008 3 3402/009 4 3402/010 3 3402/021 4 3402/022 5 3402/023 7 3402/024 1 3402/025 3 3402/026 1		Deviation from current Specifications used: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)		27.11.2019	

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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)

Project Name	Testing Level	LAT	Date code	Quantity Delivered

PID changes since start of qualification	9	Current PID Verified by:	Burak Gökgöz	10
None <input type="checkbox"/>		Ref No: RAA.81	Name of Excutive Representative	
Minor* <input checked="" type="checkbox"/>		Issue: 3.1	Date: 02/12/2019	
Major* <input type="checkbox"/>		Rev Date: 06/11/2019		
*Provide details in box: Organization chart updated Update Issues of used documents. Update machine and measurmet equipment list.				

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Current Manufacturing facilities surveyed by: Thilo Kaupisch on 02/10/2019

(Name of Executive Representative)

(Date)

Satisfactory: Yes No Explain

Report Reference: ROS-AU-2019
12.12.2019



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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 DLR as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: 17/01/2020

(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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No NCCS on the qualified ESCC parts.


Executive Manager Disposition

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Application Approval: Yes No

Action / Remarks:

Date:

 Digitally signed
 by Britta Schade
 Date: 2020.03.27
 10:01:19 +01'00'

B. Schade, Head of ESA Product Assurance and Safety Department



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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 (for ESCC/QML parts)

Tests vehicle identification/description:

02LS121-K00S9-A (male side)	ESCC 3402/023-03B0301
02LS121-K00S9-A (female side)	ESCC 3402/023-03B0301

Detail Specification reference:

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	16.10.2019	8		
	Corrosion	<input checked="" type="checkbox"/>	IEC 68-2-11, Test Ka	18.10.2019	4		
	Vibration	<input checked="" type="checkbox"/>	IEC 68-2-6, Procedure B4	24.10.2019	4		
	Rapid Change of Temperature	<input checked="" type="checkbox"/>	IEC 68-2-14, Test Na	24.10.2019	4		
	Permanence of Marking	<input checked="" type="checkbox"/>	ESCC 24800	25.10.2019	4		
	Cable Retention Force	<input type="checkbox"/>	ESCC 3402, Para. 9.14	n/a			No cable connector
	Endurance	<input checked="" type="checkbox"/>	ESCC 3402, Para. 9.18	25.10.2019 27.11.2019	8		4 pcs from vibration subgroup 4 pcs from corrosion subgroup
	Seal Test	<input type="checkbox"/>	ESCC 3402, Para. 9.7	n/a			Connector is not hermetical sealed
Electrical and Endurance Subgroup	Cabling and Crimping Capability	<input type="checkbox"/>	ESCC 3402, Para. 9.15	n/a			Connector is not for crimping and not for cables
	VSWR	<input checked="" type="checkbox"/>	ESCC 3402, Para. 9.16	17.10.2019	6		Return Loss values supplied
	RF Insertion Loss	<input checked="" type="checkbox"/>	ESCC 3402, Para. 9.19	17.10.2019	6		
	Coupling Proof Torque	<input checked="" type="checkbox"/>	IEC 410	17.10.2019	6		
	Contact Resistance	<input checked="" type="checkbox"/>	ESCC 3402, Para. 9.9	18.10.2019	6		
	Seal Test	<input type="checkbox"/>	ESCC 3402, Para. 9.7	n/a			Connector is not hermetical sealed
	Plating Thickness (Hermetic)	<input type="checkbox"/>	ESCC 3402, Para. 9.29	n/a			Connector is not hermetical sealed
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					

Remark: Confirmation Number ist Lot Produktion Number



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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.