APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title:

CONNECTORS, ELECTRICAL, RECTANGULAR MICROMINIATURE,

REMOVABLE CRIMP CONTACTS, BASED ON TYPE MDMA

Page 1 Appl. No.

Executive Member: Date: 03/07/2015 290C Components (including series and families) submitted for Extension of Qualification Approval: **ESCC** BASED TEST COMPONENT COMPONENT VARIANTS RANGE OF COMPONENTS VEHICLE / S SIMILAR NO. 3401/077 Range of contacts: 9 - 15 - 21- 25 -01 & 02 MDMA See test report MDM Accepts wires AWG 24 or 2x28 in crimping barrel AWG 24 Accepts wires AWG 26 or 28 in crimping barrel AWG 26 3401/078 Nickel or Gold Plated ShellsMax. 01.02.03.04 rating for 1 isolated contact:- AWG 24 wire: 3.5A- AWG 26 wire and uninsulated AWG 25 solid wire: 2.5 A- AWG 28 wire: 1.5 A Working Volage (Max): 150Vrms Operating Temperature Range (°C): -55 to +125 2 Location of Manufacturing Plant(s) Component Manufacturer 3 4 **C&K Components SAS** Rue Bertholet B.P. 359 Date of original qualification approval: 39105 DOLE Cedex - France Date: 15/06/2009 Certificate Ref No. 290 5 7 ESCC Specifications used for Deviations to LVT testing and Detail Specification Qualification Extension Report Maintenance of qualification testing: used: reference and date: Generic: 3401 Issue: 1 No (supply details in Box PV 167-15C 16/02/2015 (connector test report) PV 168-15C 16/02/2015 (contact test report) 3401/077 Detail(s): Deviation from current Specifications: Issue: 3401/078 6 ☐ (Supply details) 8 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 See appendix PID changes since start of qualification 9 Current PID Verified by: CNES 10 None Name of Excutive Representative Minor* \boxtimes Ref No: CS-FR036 Major* Issue: 2 rev D Date: 03/07/2015 *Provide details in box: Rev Date: 01/05/2015 11 Current Manufacturing facilities surveyed by: ESA 27/04/2015 (Name of Executive Representative) (Date) Satisfactory: Yes × No Corr ective actions from audit have been closed during teleconference 03/08/2015. Audit report: C&K-AUD-2015-1, Closure of audit actions: ACTION PLAN ESCC SURVEY REPORT C&K-AUD-2015-1-030815.pdf Report Reference:

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Page 2 CONNECTORS, ELECTRICAL, RECTANGULAR MICROMINIATURE, REMOVABLE CRIMP CONTACTS, BASED ON TYPE MDMA Component title: Appl. No. Executive Member: 03/07/2015 290C 12 Failure Analysis, DPA, NCCS available: \boxtimes (Supply data) Yes No 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 as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein. Date: (Signature of the Executive Coordinator) Continuation of Boxes above: 14

ESCC

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CNES

ate: 03/07/2015

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			Exe	culive ivie	ember. CNES		Date.	03/07/2015		290C
Non compliance	to ESCC requ	irement	s:							15
No.:	Spec	cification	0		Para	graph		Non	compliance	The Billian
Additional tasks i noncompliance:	required to ach	nieve full	compliar	nce for ES	SCC qualification or ra	utionale for acce	ptability of			16
Executive Manag Application Appro Action / Remarks	oval: Yes		No	0						17
							(10h	



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

Tests conducted in compliance with:

ESCC 3401 generic specification; Chart V (for ESCC/QPL parts);

Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

MDMA9P FO340107701B (1451)	MDMA37S FO340107701B (1451)				
MDMA15P FO340107701B (1451)	MDMA25S FO (1451)				

Detail Specification reference:

34010029

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed Comments on Rejection
Environmental and Mechanical Subgroup	Wiring	\boxtimes	ESCC 3401 Para. 9.10	1451	2	0	
	Climatic Sequence	⊠	ESCC 3401 Para. 9.13	1451	2	0	
	Permanence of Marking	×	ESCC 24800	1451	2	0	
	Corrosion	\boxtimes	IEC Publication No. 68-2-11	1451	2	0	
	Seal Test		ESCC 3401 Para. 9.9	3			Not applicable
	Plating Thickness	\boxtimes	ESCC 3401 Para. 5.2.3	1451	2	0	
Endurance Subgroups	Wiring	\boxtimes	ESCC 3401 Para. 9.10	1451	2	0	
	Rapid change of Temperature	×	ESCC 3401 Para. 9.16	1451	2	0	
	Contact Retention	\boxtimes	ESCC 3401 Para. 9.17	1451	2	0	
	Maintenance Ageing	⊠	ESCC 3401 Para. 9.27	1451	2	0	
	Endurance	\boxtimes	ESCC 3401 Para. 9.18	1451	2	0	
	Seal Test		ESCC 3401 Para. 9.9				Not applicable
	Joint Stength	\boxtimes	ESCC 3401 Para. 9.15	1451	2	0	
	Engage/Separ. Forces		ESCC 3401 Para. 9.28	1451	20	0	
	Oversize Pin Exclusion		ESCC 3401 Para. 9.29				Not applicable
	Probe Damage		IEC Publication No. 512-8				Not applicable
Additional							
Ad							



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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.
	Additional Comments,