ESCC

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title:

CONNECTORS, ELECTRICAL, RECTANGULAR, NON REMOVABLE SOLDER BUCKET, PCB AND WIRE-WRAP CONTACTS AND REMOVABLE COAXIAL AND POWER CONTACTS, BASED ON TYPE D*M

Appl. No.

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		E	xecutive Member:	CNES			Date: 09/10/201	7	71R			
Components (inclu	ding series and fami	lies) sı	ubmitted for Extension	of Qualification	Approval:					1		
ESCC COMPONENT NO.	VARIANTS		RANGE OF CO		SED		TEST VEHICLE / S		COMPONENT SIMILAR			
3401/001 3401/004	01 & 02 01 to 25		Shell size : E, A, B, Standard density la 37, 50 size 20 conta	D*M		See test report	D*N	IA				
3401/022 3401/040	01 to 95 01 to 17		High density layout 78, 104 size 22 con									
3401/080	01		Combined contact a 3W3 to 8W8, 5W1 to									
3401/072	05 to 14, 25 to 3 46 to 55, 61 to 6 72, 73, 76 to 80		Mounting Type: sta holes; floating mour Termination contact bucket, straigth PCI wrap Gold-plated non-ma Coaxial contact arra 3401/004 variants C Power contact arra 3401/040 variants C Operating Tempera -55 to +125									
	Manufacturer	2		anufacturing Plar	nt(s)	3				4		
C&K Components	SAS		Rue Bertholet B.P. 359 39105 DOLE Cedex - France				Date of original qualific Date: 12/02/		al:			
								Suit.				
							Certificate Ref No.	71				
martiame consistence of the control		5	Cody and the first Colonial Constitution Constitution Colonial Colonial Constitution Colonial Colonia Colonial Colonia Colonia Colonia Colonia Colonia Colonia Colonia Colonia Colonia Colo			6				7		
ESCC Specifications used for Maintenance of qualification testing:			Deviations to LVT t used:	esting and Detail	Specification	on	Qualification Extension Report reference and date:					
Generic: 3401	Issue: 4		No ⊠ Yes ☐ (supply details in 15)				PV 161-17C 17/02/2017 (contact test report) PV 162-17C 17/02/2017 (connector test report)					
Detail(s): 3401/001 Issue: 10 3401/004 4 3401/022 11			Deviation from curr	ton new Tons	s;		102-176-17102120	Tr (connector	test report)			
3401/040 6 3401/072 8 3401/080 4		No ⊠ Yes	☐ (Supply	details)	is)							
Summany of procu	romant or aquiuslant	toot c	andle during gurrent	validity period in a	support of th	vic on	unlication (those to ESC(C listed first)		8		
Summary of procurement or equivalent test re Project Name Testing Level			LAT	Date code			Quantity Delivered					
See appendix												
			1									
580455 W	00 PACE V/ V/00-5 = 50				DAY TOWN PER		20000000000					
PID changes since start of qualification			9	Current PID	Verified by:		CNES	Deservateli		1		
None □ Minor* ⊠				Ref No:	CS-FR030	,	Name of Excutive	Representativ	е			
Major*	*Provide details i	n hov		Issue:	2 rev L			Date:	09/10/2017			
Wajor 🗆	Provide details i	II DOX.		Rev Date:	01/05/2017	7		Dute.	00/10/2017			
	*									11		
Current Manufactu	ring facilities survey	ed by:	W	CNES		OI	<u>n</u>		14/12/20	016		
			(Nar	ne of Executive F	Representat	ive)		(Date	:)			

				Explain
Report Re	ference:	CRIM	1013659	

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Page 2 CONNECTORS, ELECTRICAL, RECTANGULAR, NON REMOVABLE SOLDER BUCKET, PCB AND WIRE-WRAP CONTACTS AND REMOVABLE COAXIAL AND POWER CONTACTS, BASED ON TYPE D*M Component title: Appl. No. CNES Executive Member: Date: 09/10/2017 71P 12 Failure Analysis, DPA, NCCS available: 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 CNES as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein. 13/10/2017 Date: JP. BUSSENOT (Signature of the Executive Coordinator) Continuation of Boxes above: 14

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Component title: CONNECTORS, ELECTRICAL, RECTANGULAR, NON REMOVABLE SOLDER BUCKET, PED SAND WIRE-WRAP CONTACTS AND REMOVABLE COAXIAL AND POWER CONTACTS, BASED ON TYPE D'M Executive Member: CNES Date: 09/10/2017 71P Non compliance to ESCC requirements: No.: Specification Paragraph Non compliance Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:

Executive Manager Disposition

Application Approval: Yes

No

Action / Remarks:

Date:

Signature, ESA Representative

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Executive Member: CNES Date: 09/10/2017

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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:

DBMA25 FO, DBM25 F179A, DEMA15 FO DEBM15 DEM15 OL3, DDMA78 FO, DDM78 OL3, DFMA104 FO FR172, DFM104 OL3-FR172 DAMA15 FO, DABMA15, DAM15 1A7N DBM5W5

Detail Specification reference:

3401001

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	⊠	ESCC 3401 Para. 9.10	1650	3	0	
	Climatic Sequence	⊠	ESCC 3401 Para. 9.13	1650	3	0	
	Permanence of Marking	⊠	ESCC 24800	1650	3	0	
	Corrosion	⊠	IEC Publication No. 68-2-11	1650	3	0	
	Seal Test		ESCC 3401 Para. 9.9				Not applicable
	Plating Thickness	×	ESCC 3401 Para. 5.2.3	1650	3	0	
Endurance Subgroups	Wiring	⊠	ESCC 3401 Para. 9.10	1650	3	0	
	Rapid change of Temperature	×	ESCC 3401 Para. 9.16	1650	3	0	
	Contact Retention	⊠	ESCC 3401 Para. 9.17	1650	3	0	
	Maintenance Ageing	×	ESCC 3401 Para. 9.27	1650	10		Only applicable for 5W5 connectors
	Endurance	⊠	ESCC 3401 Para. 9.18	1650	3	0	
	Seal Test		ESCC 3401 Para. 9.9				Not applicable
	Joint Stength	\boxtimes	ESCC 3401 Para. 9.15	1650	6	0	
	Engage/Separ. Forces	×	ESCC 3401 Para. 9.28	1650	110	0	
	Oversize Pin Exclusion	×	ESCC 3401 Para. 9.29	1650	40	0	
	Probe Damage	×	IEC Publication No. 512-8	1650	40	0	
Additional							



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Executive Member:

CNES

Date: 09/10/2017

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NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

	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.