
		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1 Appl. No. 281E
Component Title: CONNECTORS, ELECTRICAL, CRIMP CONTACTS, Z-AXIS INTERPOSER, PRINTED CIRCUIT BOARD, BASED ON TYPE RX		Executive Member: CNES		Date: 09/10/2017	
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
3401 076	01	All design envelopes specified in Table 1(a) are qualified Max. number of rows 11 Max. number of contacts: 660 Locking and Guiding Devices: -Through holes only -M2 studs with locking nuts and washers -Locating pins not available Rated current: 1A each contact Total contact compression range: 0.1 to 0.65 mm per contact Compression force: 1.6N per contact Torque for locking devices: 10 N.cm Operating Temperature Range (°C): -55 to +125	RX	340107601BRXA250 55FF078U2	
Component Manufacturer HYPERTAC SA		Location of Manufacturing Plant(s) 31 rue Isidore Maille 76410 Saint-Aubin les Elbeuf		Date of original qualification approval: Date: 15/08/2007 Certificate Ref No. 281	
ESCC Specifications used for Maintenance of qualification testing: Generic: 3401 Issue: 4 Detail(s): 3401076 Issue: 2		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)		Qualification Extension Report reference and date: PV n°Q 136/17, 16th June 2017	
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 Excel file					
PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box:		Current PID Verified by: JB Sauveplane Name of Executive Representative Ref No: P.I.D CDC N° 43 Issue: R Date: 09/10/2017 Rev Date: 26/09/2017			
Current Manufacturing facilities surveyed by: JB Sauveplane on 18/07/2017 (Name of Executive Representative) (Date)					11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain					
Report Reference: 1020294					

	<p align="center">APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</p> <p>Component title: CONNECTORS, ELECTRICAL, CRIMP CONTACTS, Z-AXIS INTERPOSER, PRINTED CIRCUIT BOARD, BASED ON TYPE RX</p> <p>Executive Member: CNES Date: 09/10/2017</p>	<p>Page 2</p> <p>Appl. No. 281E</p>
<p>Failure Analysis, DPA, NCCS available: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (Supply data)</p> <p>Ref. No's and purposes: 2CHY702-RX (blocked contact- appended, should not hold the maintenance)</p>		12
<p>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.</p> <p>Date: 13/10/2017</p> <p align="right">JP. BUSSENOT (Signature of the Executive Coordinator)</p>		13
<p>Continuation of Boxes above:</p> <p>[12] MRS CONSIDERED THE PROBLEM AN ISOLATED CASE DUE TO AN OPERATOR ERROR. PREVENTIVE ACTIONS HAVE BEEN PUT IN PLACE.</p>		14



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: CONNECTORS, ELECTRICAL, CRIMP CONTACTS, Z-AXIS
INTERPOSER, PRINTED CIRCUIT BOARD, BASED ON TYPE RX

Executive Member: CNES

Date: 09/10/2017

Page 3

Appl. No.

281E

Non compliance to ESCC requirements:

15

No.:	Specification	Paragraph	Non compliance
1	20100	7.3	ONLY LAT2 ON THIS PRODUCT

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

16

THIS APPLICATION IS BASED ON LAT2 DATA AND A SIMILARITY
WITH OTHER TYPES TESTED IN PARALLEL. SEE MOD FORM
2504 FOR A FULL LAT1 SUMMARY.

Executive Manager Disposition

17

Application Approval: Yes ☒ No ☐

Action / Remarks:

FULL ESCC AUDIT TO BE PERFORMED IN 2018.

Date:

Signature, ESA Representative



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: CONNECTORS, ELECTRICAL, CRIMP CONTACTS, Z-AXIS
INTERPOSER, PRINTED CIRCUIT BOARD, BASED ON TYPE RX
Executive Member: CNES Date: 09/10/2017

Page 4

Appl. No.

281E

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

18

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:

340107601BRXA25055FF078U2	

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 and Mechanical Subgroup	Wiring	<input type="checkbox"/>	ESCC 3401 Para. 9.10				Not applicable
	Climatic Sequence	<input type="checkbox"/>	ESCC 3401 Para. 9.13				
	Permanence of Marking	<input type="checkbox"/>	ESCC 24800				
	Corrosion	<input type="checkbox"/>	IEC Publication No. 68-2-11				Not applicable
	Seal Test	<input type="checkbox"/>	ESCC 3401 Para. 9.9				Not applicable
	Plating Thickness	<input type="checkbox"/>	ESCC 3401 Para. 5.2.3				PERFORMED IN PRODUCTION CONTROL
Endurance Subgroups	Wiring	<input type="checkbox"/>	ESCC 3401 Para. 9.10				Not applicable
	Rapid change of Temperature	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.16	1710	2	0	
	Contact Retention	<input type="checkbox"/>	ESCC 3401 Para. 9.17				Not applicable
	Maintenance Ageing	<input type="checkbox"/>	ESCC 3401 Para. 9.27				Not applicable
	Endurance	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.18	1710	2	0	
	Seal Test	<input type="checkbox"/>	ESCC 3401 Para. 9.9				Not applicable
	Joint Strength	<input type="checkbox"/>	ESCC 3401 Para. 9.15				Not applicable
	Engage/Separ. Forces	<input type="checkbox"/>	ESCC 3401 Para. 9.28				Not applicable
	Oversize Pin Exclusion	<input type="checkbox"/>	ESCC 3401 Para. 9.29				Not applicable
	Probe Damage	<input type="checkbox"/>	IEC Publication No. 512-8				Not applicable
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					

	<p align="center">APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</p> <p>Component title: CONNECTORS, ELECTRICAL, CRIMP CONTACTS, Z-AXIS INTERPOSER, PRINTED CIRCUIT BOARD, BASED ON TYPE RX</p> <p>Executive Member: CNES Date: 09/10/2017</p>	<p align="center">Page 6</p> <p align="center">Appl. No. 281E</p>
<p align="center">NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL</p>		
<p>ENTRIES Form heading</p>	<p>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.</p>	
<p>Box 1</p>	<p>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.</p>	
<p>Box 2; 3 and 4</p>	<p>As per QPL entry; otherwise, an explanation of the changes must be supplied.</p>	
<p>Box 5</p>	<p>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.</p>	
<p>Box 6</p>	<p>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.</p>	
<p>Box 7</p>	<p>Must reference the report(s) supplied in support of the application.</p>	
<p>Box 8</p>	<p>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.</p>	
<p>Box 9</p>	<p>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.</p>	
<p>Box 10</p>	<p>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.</p>	
<p>Box 11</p>	<p>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.</p>	
<p>Box 12</p>	<p>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.</p>	
<p>Box 13</p>	<p>Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive Coordinator.</p>	
<p>Box 14</p>	<p>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.</p>	
<p>Box 15</p>	<p>Fill in Table as requested.</p>	
<p>Box 16</p>	<p>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.</p>	
<p>Box 17</p>	<p>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.</p>	
<p>Box 18</p>	<p>Fill in Table as requested.</p>	
<p>Box 19</p>	<p>Confidential Details of PID changes including those of a confidential nature, shall be provided.</p>	
<p>Box 20</p>	<p>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'.</p>	
<p>Box 21</p>	<p>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.</p>	
<p>Box 22</p>	<p>Additional Comments.</p>	