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Component Title:

Transistor Bipolar NPN low and high power

Page 1

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| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                          | Executiv    | ve Member:                                   | CNE               | S                    |                               | D         | ate: 25/07/2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 233               | 3L  |
| Components (includ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ing series and familie                                   | s) submitte | ed for Extens                                | sion of Q         | ualification         | Approval:                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | 1   |
| ESCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | T                                                        |             |                                              |                   |                      | T                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
| COMPONENT<br>NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | VARIANTS                                                 | i           | RANGE OF COMPONENTS  BASED ON                |                   | TEST<br>VEHICLE / S  | COMPONE<br>SIMILAR            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
| 5201/001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 01, 02, 04, 05, 06,<br>07                                | TO-         | 18, LCC3, LC                                 | CC3+1             |                      | 2N2484                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
| 5201/002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 01, 02, 04, 05, 11, 12                                   | TO-         | TO-18, LCC3, LCC3+1 2N2222A Lot ID33420004ZZ |                   |                      |                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
| 5201/003<br>5201/004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01, 02 01, 02, 04, 05, 06,                               | TO3         | 18, LCC3, LC                                 |                   | *****                | 2N2219A<br>2N3700             |           | Lot ID33510009ZY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |     |
| 55201/011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 07<br>03, 04                                             | TO-S        | 39                                           |                   |                      | 2N3019                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
| 5201/019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 01, 02, 04, 05, 08,                                      | TO-         | 18, LCC3, LC                                 | CC3+1             |                      | 2N5551                        |           | *******                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |     |
| 5203/010<br>5203/016<br>5207/002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 09<br>01, 02, 04, 05, 06,<br>06,07<br>03,06,12,15, 16, 1 | TO2         | 9, TO-257,S<br>57<br>77,LCC6, FP             |                   | ••••••               | 2N5154<br>BUX77ESY<br>2N2920A | *****     | Lot ID33307002ZH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |     |
| Component M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          | 2           |                                              | ation to a second | cturing Plant        |                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | 4   |
| STMicroelectronics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ,                                                        | 3, ru       | ue de Suisse                                 |                   |                      |                               | Date      | of original qualification ap<br>: 02/09/1996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | proval:           |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          | 5           |                                              |                   |                      | 6                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | 7   |
| Maintenance of qua Generic: 5000  Detail(s): 5201/0 5201/0 5201/0 5201/0 5201/0 5201/0 5203/0 5203/0 5203/0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Issue: 3  01 Issue: 6 02 8 03 4 04 6 11 4 19 6 10 6 16 3 | No Dev      | d:  ⊠ Ye  ination from c  ⊠ Ye:              | urrent Sp         | 15) oecifications    |                               |           | ence and date:<br>//AN/16-153-01/ce 1 <sup>st</sup> June                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ∋ 2016            |     |
| Summary of procure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ement or equivalent to                                   | est results | during curre                                 | nt validit        | v period in s        | upport of this a              | plication | on (those to ESCC listed fi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | rst)              | 8   |
| Project Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Testing Lev                                              |             | LAT                                          |                   |                      | Date code                     |           | The state of the s | Delivered         |     |
| TAS ETCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          |             |                                              |                   | 1416, 14<br>1505A, 1 | 21A, 1451A,<br>513A           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
| EBV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                          |             |                                              |                   | 1419A, 1<br>1608A    | 444B, 1506A,                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
| Alter Spain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          |             |                                              |                   | 1445A, 1<br>1507A    | 448A, 1504A,                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
| TESAT Spacecom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          |             |                                              |                   | 1504A, 1             | 507A, 1525A                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
| PID changes since                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | start of qualification                                   |             |                                              | 9 C               | urrent PID           | Verified by:                  |           | CNES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   | 10  |
| None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                          |             |                                              |                   |                      |                               | 1         | Name of Excutive Represe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ntative           |     |
| Minor* ⊠                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          |             |                                              | R                 | ef No:               | 8097046 (gene                 | ric) Re   | v 15 and 8124528 (specific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | c Bipolar) rev 16 |     |
| Major* □                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | *Provide details in I                                    | box:        |                                              |                   | sue:                 |                               |           | Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10/03/2016        | 3   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |             |                                              | R                 | ev Date:             |                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | -   |
| Current Manufacturi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ng facilities surveyed                                   | l by:       |                                              |                   | ESA & CNE            | ≣S                            | 0         | n 27.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | /11/2014          | 11  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |             | 1)                                           | Name of           | Executive R          | epresentative)                | _         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (Date)            |     |
| Satisfactory:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes 🖂                                                    | N           | lo 🗆                                         | Explair           | İ                    |                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
| Report Reference:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ESA-TECQ<br>issue 1, 19/12                               |             | 559                                          |                   |                      |                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |     |
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|                                                                                   | APPLICATI                | ION FOR EXTENSIO      | N OF ESCC QUAL        | FICATI  | ON APPROVAL               | Page 2       |
|-----------------------------------------------------------------------------------|--------------------------|-----------------------|-----------------------|---------|---------------------------|--------------|
| ESCC                                                                              | Component title:         | Transistor Bipolar    | NPN low and high p    | ower    |                           | Appl. No.    |
|                                                                                   | Executive Member:        | CNES                  |                       | Date:   | 25/07/2016                | 233L         |
|                                                                                   |                          |                       |                       |         |                           | 1            |
| ilure Analysis, DPA, NCCS av                                                      | vailable: Yes            | □ No ⊠                | (Supply data)         |         |                           |              |
| f. No's and purposes:                                                             |                          |                       |                       |         |                           |              |
| · · · · · · · · · · · · · · · · · · ·                                             |                          |                       |                       |         |                           |              |
| e undersigned hereby certifies on beha<br>It the appropriate documentation has be |                          |                       |                       |         | ce                        |              |
| ccept as stated in box 15;) - that the rep                                        | orts and data are availa | able at the ESCC Exe  | ecutive and therefore | applies | s on behalf of            | 2 ~          |
|                                                                                   | 20, 10, 2000 quamoun     | on status to be exten | acc to the compone    | (0)     |                           | women        |
| te: 29/07/2016                                                                    |                          |                       |                       | -/6     | JP. BUSSENC               |              |
|                                                                                   |                          |                       |                       | (3)     | ignature of the Executive | Coordinator) |
| ntinuation of Boxes above:<br>x 7:                                                |                          |                       |                       |         |                           | - 1          |
|                                                                                   | 7040                     |                       |                       |         |                           |              |
| 3700RHRG Lot ID33440002ZV DC150<br>5153YHRB Lot ID3315000BZM DC143                | 35A : covers TO257 pa    | ackages               |                       |         |                           |              |
| 3810RHRG Lot ID33343005ZZ DC141<br>3810KT Lot ID33301003XD DC1412A                |                          |                       |                       |         |                           |              |
| 5153HRG Lot ID3312518501 DC1507                                                   |                          |                       |                       |         |                           |              |
|                                                                                   | •                        |                       |                       |         |                           |              |
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|                                                                                   |                          |                       |                       |         |                           |              |

Component title: Transistor Bipolar NPN low and high power

Page 3 Appl. No.

Date: 25/07/2016

|                                   |                                     | Executive Member:    | CNES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Date:     | 25/07/2016     | 233L |    |
|-----------------------------------|-------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|------|----|
| Non complianc                     | e to ESCC requirements:             |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                | L    | 15 |
| No.:                              | Specification                       |                      | Paragraph                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Non compliance |      |    |
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|                                   |                                     |                      | State of the state | 200       |                |      |    |
| Additional tasks<br>noncompliance | s required to achieve full co<br>e: | mpliance for ESCC qu | ralification or rationale for acceptab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | oility of |                |      | 16 |
|                                   |                                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                |      |    |
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| Executive Man                     | ager Disposition                    |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                |      | 17 |
| Application Ap                    | proval: Yes                         | No 🗆                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                | L    |    |

ESCC EXECUTIVE SURVEY OF ST'S NEW CLEAN ROOM FOR ASSEMBLY AND TEST AT THEIR RENNES SITE I'S SCHEDULED FOR 29-30 AUGUST.

Date:

Action / Remarks:

Signature, ESA Representative



Component Title: Transistor Bipolar NPN low and high power

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Executive Member: CNES Date: 25/07/2016 233L

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

Tests conducted in compliance with:

ESCC 5000 generic specification; Chart F4 (for ESCC/QPL parts); or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

| SOC2222AHRG Lot ID33420004ZZ DC1430A | Full Chart F4 |
|--------------------------------------|---------------|
| SOC3700HRG Lot ID33510009ZY DC1527A  | Full Chart F4 |
| 2N5154SHR Lot ID33307002ZH DC1413B   | Full Chart F4 |

Detail Specification reference:

5201/002/004 & 5203/010

| Chart<br>F4                        | Test                            | Tick<br>when<br>done | Conditions                                                | Date<br>Code<br>Diffusion<br>Lot | Tested<br>Qty   | N° of<br>Rejects | Comments if not performed.<br>Comments on Rejection |
|------------------------------------|---------------------------------|----------------------|-----------------------------------------------------------|----------------------------------|-----------------|------------------|-----------------------------------------------------|
|                                    | Mechanical shock                |                      | MIL-STD-750 TM2016                                        | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
|                                    | Vibration                       | ×                    | MIL-STD-750 TM2056                                        | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
|                                    | Constant acceleration           | ×                    | MIL-STD-750 TM2006                                        | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
| dno                                | Seal<br>Fine leak<br>Gross leak | ×                    | MIL-STD-750 TM1071                                        | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
| Subg                               | Electrical<br>Measurement       | ×                    | Intermediate and End-<br>Point Electrical<br>Measurements | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
| Environmental/Mechanical Subgroup  | External Visual                 | ×                    | ESCC Basic Spec 20500                                     | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
| ıtal/Me                            | Thermal shock                   |                      | MIL-STD-750 TM1056                                        | Click here<br>to enter<br>text.  |                 |                  | Only applicable to axial lead glass diodes          |
| ronmer                             | Temperature Cycling             | ×                    | MIL-STD-750 TM1051                                        | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
| Envi                               | Moisture Resistance             | ×                    | MIL-STD-750 TM1021                                        | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
|                                    | Seal<br>Fine leak<br>Gross leak | ×                    | MIL-STD-750 TM1071                                        | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
|                                    | Electrical<br>Measurement       | ×                    | Intermediate and End-<br>Point Electrical<br>Measurements | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
|                                    | External Visual                 | ⊠                    | ESCC Basic Spec 20500                                     | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
| dno                                | Operating Life                  | ×                    | ESCC 5000 Para. 8.19                                      | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
| Subgr                              | Electrical<br>Measurement       | ×                    | Intermediate and End-<br>Point Electrical<br>Measurements | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
| Endurance Subgroup                 | Seal<br>Fine leak<br>Gross leak | ⊠                    | MIL-STD-750 TM1071                                        | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
| Enc                                | External Visual Inspection      | ⊠                    | ESCC Basic Spec 20500                                     | 1430A +<br>1527A +<br>1413B      | 15 + 15 +<br>15 | 0                |                                                     |
|                                    | Permanence of<br>Marking        |                      | ESCC Basic Spec 24800                                     |                                  | -               |                  | Not applicable on Laser<br>marking                  |
| Assembly<br>Capability<br>Subgroup | Terminal Strength               | ⊠                    | ESCC 5000 Para. 8.18                                      | 1430A +<br>1527A +<br>1413B      | 5 + 5 + 5       | 0                |                                                     |
| Asse<br>Cap                        | Internal Visual                 | ⊠                    | ESCC Basic Spec 20400                                     | 1430A +<br>1527A +<br>1413B      | 5 + 5 + 5       | 0                |                                                     |
|                                    | Bond Strength                   | ×                    | MIL-STD-750 TM 2037                                       | 1430A +                          | 3+3+3           | 0                |                                                     |

|           |   |                     | 1527A +<br>1413B   |       |   |          | ╗ |
|-----------|---|---------------------|--------------------|-------|---|----------|---|
| Die Shear | ⊠ | MIL-STD-750 TM 2017 | 1430A +<br>1527A + | 3+3+3 | 0 |          | 1 |
|           |   |                     | 1413B              |       |   | 70.00.00 | 긔 |
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Component title: Transistor Bipolar NPN low and high power

Executive Member: CNES Date: 25/07/2016

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| Ch<br>art<br>F4 | Test | Tick<br>when<br>done | Conditions | Date<br>Code<br>Diffusion<br>Lot | Tested<br>Qty | N° of<br>Rejects | Comments if not performed. Comments on Rejection |
|-----------------|------|----------------------|------------|----------------------------------|---------------|------------------|--------------------------------------------------|
| lal ,           |      |                      |            |                                  |               |                  |                                                  |
| Addition        |      |                      |            |                                  |               |                  |                                                  |
| Ad              |      |                      |            |                                  |               |                  |                                                  |



Component title:

Transistor Bipolar NPN low and high power

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Appl. No.

Executive Member:

CNES

Date: 25/07/2016

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

| l No                    | DTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENTRIES<br>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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |