AEROSPACE DATA EXCHANGE PROGRAM TRANSMITTAL



## DDODLEM ADVICODY

| PROBLEM ADVISORY  |  |                    |                       |   |                             |  |  |
|---|--|--------------------|-----------------------|---|-----------------------------|--|--|
| 1. TITLE  |  |                    | 2. DOCUMENT NU        | 2. DOCUMENT NUMBER  |                             |  |  |
| MEMORY, DI  | EAM SEAL FAILURE<br>GITAL, CMOS, RAD<br>GE SRAM, MULTICH | ATION-HARDENE      |                       | SPO-2020-PA-0006C   |                             |  |  |
|   |  |                    |                       | 3. DATE (Year, Month, Date)   |                             |  |  |
| 4 MANUFACTURE   | R NAME AND ADDRESS                                       |                    | 2020, Oct, 13         | 5. MANUFACTURER POINT OF CONTACT NAME   |                             |  |  |
| 4. MANUFACTURER NAME AND ADDRESS CAES   |  |                    | Peter Nelson          |   |                             |  |  |
| 4350 CENTENNIAL BOULEVARD<br>COLORADO SPRINGS, COLORADO 80907-3486  |  |                    | 6. MANUFACTURE        | 6. MANUFACTURER POINT OF CONTACT TELEPHONE                                    |                             |  |  |
| •   |  |                    | 719-594-8238          |   |                             |  |  |
|   |  |                    |                       | 7. MANUFACTURER POINT OF CONTACT EMAIL Peter.b.nelson@cobhamaes.com           |                             |  |  |
| 8. CAGE CODE   9. LDC START   10. LDC END   |  |                    |                       | Peter.b.neison@codnamaes.com  11. PRODUCT IDENTIFICATION CODE   12. BASE PART |                             |  |  |
| 65342   | 1849   | 1948               | QS09 thru QS          |   | UT8ERxM32M/S<br>UT8RxM39    |  |  |
| 13. BLANK   |  |                    | 14. SMD NUMBER        |   | 15. DEVICE TYPE DESIGNATOR  |  |  |
|   |  |                    | 10202 thru 102        | 207   | All 17. QML LEVEL           |  |  |
|   |  |                    | All                   |   | All                         |  |  |
|   |  |                    | 18. NON QML LEV       | EL  | 19. GIDEP NUMBER            |  |  |
|   |  |                    | All                   |   | GB4-P-20-0006B              |  |  |
| 20. PROBLEM DESCRIPTION / DISCUSSION / EFFECT  The SRAM part numbers listed in Table 1 which have an 1849-1948 date code may not remain hermetic post Group D3 stressing (thermal shock, thermal cycling & moisture exposure). All parts initially passed two Fine/Gross leak screens during production flow; however Group D3 temperature stressing aggravated the corner region of the welds and induced seal failures on some samples from the affected date codes. Although all parts delivered to customers were hermetic, |  |                    |                       |   |                             |  |  |
| there is a risk of having a latent defect on the seals which may exhibit itself as a non hermetic part post stressing. <b>See Table 1 for affected PNs.</b>   |  |                    |                       |   |                             |  |  |
| Root cause is still in work and this form will be updated once that data is available along with a recommendation of rescreen or replacement.   |  |                    |                       |   |                             |  |  |
|   |  |                    |                       |   |                             |  |  |
| 21. ACTION TAKE   | N / PLANNED  |                    |                       |   |                             |  |  |
| SRAM production and shipments are on hold until a corrective action is implemented. Group D testing will be conducted on a lot by lot basis until three consecutive passing lots are completed.   |  |                    |                       |   |                             |  |  |
| It is recommended that customers contact the factory for disposition of delivered parts.  |  |                    |                       |   |                             |  |  |
|   |  |                    |                       |   |                             |  |  |
|   |  | •                  | •                     |   |                             |  |  |
| 22. DISPOSITION   | ARY RECOMMENDATION:                                      | CHECK &  USE AS IS | CONTACT  MANUFACTURER | REMOVE &  REPLACE   | CORRECT &  USE AS SPECIFIED |  |  |

Table 1

| Affected PN     | PIC  | Assembly Lot  |
|-----------------|------|---|
| 5962R1020302VXC | QS10 | 3HJL  |
| 5962R1020304QXC | QS10 | 3HJLC   |
| 5962R1020404QXC | QS12 | 3FHJD, 3FXAE, 3HTRA   |
| 5962R1020501VXC | QS13 | 3FVT, 3HTH, 3JCF  |
| 5962R1020601QXC | QS14 | 3IAA  |
| 5962L1020601QXC | QS14 | 3JCH, 3JCI  |
| 5962R1020601VXC | QS14 | 3HXB  |
| 5962L1020601VXC | QS14 | ЗНХВА   |
| 5962R1020602QXC | QS14 | 3EKZA, 3HKB   |
| 32-00148-17     | QS14 | ЗНКВА   |
| 5962R1020702QXC | QS15 | 3ENOBA, 3FHJF, 3FMT, 3FWZ,<br>3FXA, 3FXABB, 3HTD, 3HTF,<br>3HTR, 3HTS, RW3ENO |
| 32-00147-1      | QS15 | 3ENOA, 3FXAA  |
| 32-00148-24     | QS15 | 3FMTB   |
| 32-00147-2      | QS15 | 3FHJA, 3FXAB  |

Note: If customer finds an assembly lot within the LDC range of boxes 9 and 10 but is not in Table 1, please contact the factory.