

**DMSMS NOTICE**

DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES

|   |  |   |                                  |
|---|--|---|----------------------------------|
| 1. TITLE<br>MICROCIRCUIT, DIGITAL, ADVANCED CMOS, RADIATION HARDENED,<br>SYNCHRONOUS 4-BIT UP/DOWN BINARY COUNTER, MONOLITHIC SILICON<br>FAB MIGRATION  |  | 2. DOCUMENT NUMBER<br>SPO-2014-D-0007A  |                                  |
|   |  | 3. DATE (Year, Month, Date)<br>2014 February 14   |                                  |
| 4. MANUFACTURER NAME AND ADDRESS<br>CAES<br>4350 CENTENNIAL BOULEVARD<br>COLORADO SPRINGS, COLORADO 80907-3486  |  | 5. MANUFACTURER POINT OF CONTACT (NAME)<br>MR. TIM MEADE  |                                  |
|   |  | 6. MANUFACTURER POINT OF CONTACT TELEPHONE<br>(719) 594-8048  |                                  |
|   |  | 7. MANUFACTURER POINT OF CONTACT EMAIL<br>tim.l.meade@cobhamaes.com                                   |                                  |
| 8. CAGE CODE<br>65342   | 9. MANUFACTURER FINAL ORDER DATE<br>SEE COMMENTS BELOW | 10. PRODUCT IDENTIFICATION CODE<br>C191A  | 11. BASE PART<br>UT54ACS191      |
| 12. BLANK   |  | 13. SMD NUMBER<br>96564   | 14. DEVICE TYPE DESIGNATOR<br>01 |
|   |  | 15. RHA LEVELS<br>NON, R, F, G, AND H   | 16. QML LEVEL<br>Q AND V         |
|   |  | 17. NON QML LEVEL<br>N/A  | 18. BLANK                        |
| 19. COMMENTS<br>CAES IS ISSUING THIS DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES NOTICE AND PRODUCT CHANGE NOTIFICATION TO ANNOUNCE THE FOUNDRY MIGRATION OF DEVICE TYPE 01 FROM 1.2UM RADIATION-HARDENED CMOS TO ON-SEMICONDUCTOR'S 0.6UM C5U COMMERCIAL RADIATION-HARDENED CMOS PROCESS. BECAUSE THE MIGRATED DEVICE IS FORM, FIT, AND FUNCTIONAL TO THE LEGACY DEVICE, IT WILL CONTINUE TO SHIP AS DEVICE TYPE 01.<br><br>AS PART OF THIS PROCESS MIGRATION, THE RADIATION HARDNESS ASSURANCE LEVEL "H" AND CASE OUTLINE "E" WILL NO LONGER BE AVAILABLE FROM AN APPROVED SOURCE OF SUPPLY. CAES WILL ACCEPT ORDERS FOR RHA LEVEL "H" AND PACKAGE OUTLINE "E" ON A "FIRST COME, FIRST SERVED" BASIS, THROUGH JUNE 2014 OR UNTIL INVENTORY EXHAUSTS. ADDITIONALLY, DIE SALES AGAINST DIE DETAIL "A" WILL NO LONGER BE AVAILABLE. FUTURE DIE SALES MAY BE ISSUED AGAINST DIE DETAIL "B" OF THE AFFECTED SMD. NOTE: THE NEW DIE SUPPLIED AGAINST DIE DETAIL "B" REQUIRE A SUBSTRATE BIAS TO VSS.<br><br>THE MIGRATED DEVICE OFFERING WILL BE AVAILABLE WITH THE FOLLOWING OPTIONS:<br><br>SMD #: 5962-96564 DEVICE TYPE: 01<br>AVAILABLE RHA DESIGNATORS: R (100Krad (Si)), F (300Krad (Si)), G (500Krad (Si))<br>DEVICE CLASS: Q, V<br>CASE OUTLINE DESIGNATOR: X (16 LEAD FLAT PACK) OR DIE CODE: 9<br>LEAD FINISH: A, C, X OR DIE DETAIL: B<br><br>SHIPMENTS OF THE MIGRATED DEVICE ARE EXPECTED TO BEGIN IN JUNE 2014.<br><br>See Continuation on page 2 |  |   |                                  |
| 20. ADEPT REPRESENTATIVE<br>Timothy L. Meade  |  | 21. SIGNATURE<br> |                                  |
|   |  | 22. DATE<br>5 March 2014  |                                  |

Obsolete SMD PINs

|      |   |       |    |       |
|------|---|-------|----|-------|
| 5962 | H | 96564 | 01 | V 9 A |
| 5962 | H | 96564 | 01 | Q 9 A |
| 5962 | H | 96564 | 01 | Q E A |
| 5962 | H | 96564 | 01 | Q X A |
| 5962 | H | 96564 | 01 | Q E C |
| 5962 | H | 96564 | 01 | Q X C |
| 5962 | H | 96564 | 01 | V E A |
| 5962 | H | 96564 | 01 | V X A |
| 5962 | H | 96564 | 01 | V E C |
| 5962 | H | 96564 | 01 | V X C |

Vendor Similar PINs

|             |      |
|-------------|------|
| UT54ACS191- | VDIE |
| UT54ACS191- | QDIE |
| UT54ACS191- | PQAH |
| UT54ACS191- | UQAH |
| UT54ACS191- | PQCH |
| UT54ACS191- | UQCH |
| UT54ACS191- | PVAH |
| UT54ACS191- | UVAH |
| UT54ACS191- | PVCH |
| UT54ACS191- | UVCH |

Replace SMD PINs

|      |   |       |    |       |
|------|---|-------|----|-------|
| 5962 | G | 96564 | 01 | Q 9 B |
| 5962 | G | 96564 | 01 | Q X A |
| 5962 | G | 96564 | 01 | Q X C |
| 5962 | G | 96564 | 01 | V 9 B |
| 5962 | G | 96564 | 01 | V X A |
| 5962 | G | 96564 | 01 | V X C |

Vendor Similar PINs

|             |      |
|-------------|------|
| UT54ACS191- | QDIE |
| UT54ACS191- | UQAG |
| UT54ACS191- | UQCG |
| UT54ACS191- | VDIE |
| UT54ACS191- | UVAG |
| UT54ACS191- | UVCG |