

PROBLEM ADVISORY

1. TITLE	2. DOCUMENT NU	2. DOCUMENT NUMBER			
MICROCIRCUIT, MEMORY, DIGITAL, CMOS, 1MEG X 32-BIT (32M), RADIATION-HARDENED, DUAL VOLTAGE SRAM WITH EMBEDDED EDAC, MULTICHIP MODULE		5 X SPO-2018-PA	SPO-2018-PA-0003		
		3. DATE (Year, Mo 2018. Decemb	3. DATE (Year, Month, Date) 2018. December. 21		
4. MANUFACTURER NAME AND ADDRESS		5. MANUFACTURE	5. MANUFACTURER POINT OF CONTACT NAME		
CAES	Peter Nelson	Peter Nelson			
4350 CENTENNIAL BOULEVARD	6. MANUFACTURE	6. MANUFACTURER POINT OF CONTACT TELEPHONE			
COLORADO SPRINGS, COLORADO 80907-3486		719-594-8238	719-594-8238		
		7. MANUFACTURE	7. MANUFACTURER POINT OF CONTACT EMAIL		
		Peter.b.nelson	Peter.b.nelson@cobhamaes.com		
8. CAGE CODE 9. LDC START 1 65342 2012 2	0. LDC END 2017	11. PRODUCT IDE	NTIFICATION CODE	12. BASE PART UT8ER1M32S	
13. BLANK		14. SMD NUMBER		15. DEVICE TYPE DESIGNATOR	
		16. RHA LEVELS		17. QML LEVEL	
		All		All	
		18. NON QML LEV	EL	19. GIDEP NUMBER	
				GB4-P-19-01	
bata was reviewed from UT8ER1M32S parts as well as UT8R1M39 since it uses the same die. Additionally, test programs were compared between UT8ER1M32S package testing and wafer probe to determine what tests and temperatures were not covered. The analysis showed that there is approximately a 10% fallout for the tests not performed over all three test temperatures. Some parts may not exhibit any failure due to the ECC ability to correct a single bit failure, so the failure rate observed by the customer may be less than 10%. The analysis also shows that the majority of the 10% failures occur at room and cold temperatures with the array functional patterns being the cause for the failure. 31 of 33 failures were parts failing an array pattern while the other two were I ₁₀ failures.					
 21. ACTION TAKEN / PLANNED Corrective actions taken: A script was developed to automate the test program check process and validate that all required tests were a part of the test revision release. The test program for UT8ER1M32S has been updated, validated using the new tool, and released. 					
Please contact Jeff Brodrick to return parts for re-testing. <u>Jeff.Broderick@cobhamaes.com</u> (719) 594 8354					
22. DISPOSITIONARY RECOMMENDATION:	CHECK & 🗌 USE AS IS	CONTACT 🛛 🖾 MANUFACTURER	REMOVE & 🛛	CORRECT & USE AS SPECIFIED	
23. ADEPT REPRESENTATIVE	24. SIGNATURE			25. DATE	
Tim Meade	Timethy Meade			12/21/18	

PUBLIC