AEROSPACE DATA EXCHANGE PROGRAM TRANSMITTAL



PROBLEM ADVISORY

1. TITLE			2. DOCUMENT NU	2. DOCUMENT NUMBER		
Microcircuit, Digital, Radiation Hardened, Low Voltage CMOS, Minimum Skew One-to-Eight			SPO-2013-PA	SPO-2013-PA-0001		
clock Driver, LVTTL Compatible Inputs and Outputs, Monolithic Silicon				3. DATE (Year, Month, Day) 2013, FEBRUARY, 07		
4. MANUFACTURER NAME AND ADDRESS CAES			5. MANUFACTURE Tim Meade	5. MANUFACTURER POINT OF CONTACT NAME Tim Meade		
4350 CENTENNIAL BOULEVARD			6. MANUFACTURE	6. MANUFACTURER POINT OF CONTACT TELEPHONE		
COLORADO SPRINGS, COLORADO 80907-3486			(719) 594-804	(719) 594-8048		
			7. MANUFACTURE	7. MANUFACTURER POINT OF CONTACT EMAIL		
			tim.l.meade@	tim.l.meade@cobhamaes.com		
8. CAGE CODE 65342		10. LDC END ALL	WD33	NTIFICATION CODE	12. BASE PART UT54ALVC2525	
13. BLANK			14. SMD NUMBER 5962-06233		15. DEVICE TYPE DESIGNATOR 02	
			15. RHA LEVELS		16. QML LEVEL	
			R	e.	Q & V	
			17. NON QML LEV	EL	18. BLANK	
20 PROBLEM DE	SCRIPTION / DISCUSSION / I	FEECT	N/A			
75k-85k rad(Si) TID. Device type 02 reaches the specified 100 krad(Si) limit under an effective irradiation dose rate of 1 rad(Si)/sec as described in the TID test method 1019, paragraph 3.11.2 in MIL-STD-883. **Reference the CURRENT SMD Description:** 1.5 Radiation features Maximum total dose available (Dose rate = 50 − 300 rad(Si)/s): Device type 01						
21. ACTION TAKEN / PLANNED CAES is updating the SMD total dose specification for device types 01 and 02 to properly reflect the dose rates under which they achieve their TID tolerance. Reference the CORRECTED SMD Description:						
1.5 Radiation features Maximum total dose available Device type 01 (Dose rate = 50 – 300 rad(Si)/s)≥ 1 Mrad Device type 02 (Effective dose rate = 1 rad(Si)/s)≥ 100 kad 3/						
Notes: 3/ Device is irradiated at a dose rate = 50 – 300 rad(Si)/s in accordance with MIL-STD-883, method 1019, condition A, and is guaranteed to a maximum dose rate specified. The effective dose rate after extended room temperature anneal = 1 rad(Si)/s per MIL-STD-883, method 1019, condition A, section 3.11.2. The total dose specification for these devices only applies to a low dose rate environment.						
VENDOR RECOMMENDATIONS: CAES recommends that user's check their mission requirements to ensure the expected dose rate is less than 1 rad(Si)/sec. In the event that a higher dose rate capability is required for the application, CAES will support an exchange program with the equivalent device type 01 (5962R0623301***) product. All replacements must be exchanged before June 30, 2013. After June 30, 2013, CAES will no longer exchange devices per this GIDEP.						
22. DISPOSITION	ARY RECOMMENDATION:	USE AS IS	CONTACT MANUFACTURER	REMOVE & REPLACE	CHECK & ⊠ USE AS IS	
23. ADEPT REPR	ESENTATIVE					
Timothy I	Timothy L. Meade 2013, February,					