

PRODUCT INFORMATION NOTICE

1. TITLE Add RHA notations to clarify the environmental dose rate for which the UT699 LEON is guaranteed		2. DOCUMENT NUMBER SPO-2014-PIN-0005	
		3. DATE (Year, Month, Date) 2014, November, 21	
4. MANUFACTURER NAME AND ADDRESS CAES 4350 CENTENNIAL BOULEVARD COLORADO SPRINGS, COLORADO 80907-3486		5. MANUFACTURER POINT OF CONTACT NAME Tim Meade	
		6. MANUFACTURER POINT OF CONTACT TELEPHONE 719-594-8048	
		7. MANUFACTURER POINT OF CONTACT EMAIL tim.l.meade@cobhamaes.com	
8. CAGE CODE 65342	9. BLANK	10. PRODUCT IDENTIFICATION CODE WG07	11. BASE PART UT699
12. BLANK		13. SMD NUMBER 08228	14. DEVICE TYPE DESIGNATOR All
		15. RHA LEVELS ALL	16. QML LEVEL ALL
		17. NON QML LEVEL N/A	18. BLANK

19. DESCRIPTION (FOR NEW PRODUCTS, PROVIDE AVAILABILITY DATE AND LEAD TIME)

The UT699 (SMD#5962-08228) is guaranteed to a maximum radiation hardness assurance (RHA) level of 100K rad(Si). The current SMD lists a dose rate of 50-300 rad (Si)/sec with the maximum total dose available specification. The SMD is unclear if the 50-300 rad (Si)/sec dose rate refers to the MIL-STD-883 test method 1019 condition A dose rate or the user's environmental dose rate at which the device is guaranteed.

The proper interpretation is that the 50-300 rad (Si)/sec dose rate always refers to the MIL-STD-883, method TM1019 dose rate at which CAES irradiates the device during its RHA qualification testing. The devices offered in the SMD are intended for applications whose dose rate is ≤ 1 rad (Si)/sec. Due to a parametric failure of IDDCS (Standby core power supply current), the anneal time required for the device parameter to return to within spec limits is ≤ 27.7 hours and results in an effective dose rate of = 1 rad (Si)/s.

CAES proposes the following wording change to the SMD:

Maximum total dose available (dose rate = 50 - 300 rad(Si)/s) ≥ 100 krad (Si)

TO:

Maximum total dose available (effective dose rate = 1 rad(Si)/s) 100 krad (Si) 6/

The following note 6/ will be included in the SMD to address the irradiation dose rate and application of TM1019:

6/ Device type 01 is irradiated at dose rate = 50 – 300 rad (Si)/s in accordance with MIL-STD-883, method 1019, condition A, and is guaranteed to a maximum total dose 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 this device only applies to the specified effective dose rate, or lower, environment.

NOTE: THIS DOCUMENT IS PUBLISHED FOR INFORMATION PURPOSES AND MAY PROVIDE FORWARD LOOKING STATEMENTS THAT ARE SUBJECT TO CHANGE. THE USERS SHOULD CONTACT THEIR LOCAL CAES SALES OFFICE FOR ANY ACTIONABLE CONTENT DESCRIBED HEREIN.

20. ADEPT REPRESENTATIVE Lin-Chi Huang	21. SIGNATURE 	22. DATE 12/15/2014
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