AEROSPACE DATA EXCHANGE PROGRAM TRANSMITTAL

PRODUCT CHANGE NOTICE

CAES

1. TITLE	2. DOCUMENT NUMBER
MICROCIRCUIT, DIGITAL-LINEAR, OCTAL 400 MBPS BUS LVDS REPEATER, MONOLITHIC SILICON THETA-JC AND POWER DISSIPATION UPDATE	SPO-2014-PCN-0001
	3. DATE *(Year, Month, Date)*: 2014, February, 28
4. MANUFACTURER NAME AND ADDRESS: CAES, 4350 CENTENNIAL BOULEVARD, COLORADO SPRINGS, COLORADO 80907-3486	5. MANUFACTURER POINT OF CONTACT NAME: Jennifer Larsen
	6. MANUFACTURER POINT OF CONTACT TELEPHONE: 719-594-8000
	7. MANUFACTURER POINT OF CONTACT EMAIL: Jennifer.larsen@cobhamaes.com

8. CAGE CODE	9. EFFECTIVE DATE	10. PRODUCT IDENTIFICATION CODE	11. BASE PART
65342	2014, February, 28	WD17 & WD18	UT54LVDM328
12. BLANK		13. SMD NUMBER: 5962-01536	14. DEVICE TYPE DESIGNATOR: 01
		15. RHA LEVELS: NON, R, F, G, and H	16. QML LEVEL: Q and V
		17. NON QML LEVEL: PROTO and HIREL	18. BLANK

19. PRODUCT CHANGE

This notification serves to inform our customers of the update to the power dissipation (P_D) and thermal resistance junction-to-case (Θ_{JC}). CAES has performed analysis that more accurately represent the P_D and Θ_{JC} parameters.

Per MIL-STD-883, Method 1012.1, Section 3.4.1, $P_D = (T_{J(max)} - T_{C(max)}) / \Theta_{JC}$.

The SMD will update to reflect the following changes:

Parameter	OLD	NEW
Θ_{JC}	22°C/W	15°C/W
P_D	800mW	1.667W

The effective result of this change is the device has better thermal impedance than previously reported. The lower Θ_{JC} permits the user application to reliably dissipate more power.

20. DISPOSITIONARY RECOMMENDATION:	CHECK & USE AS IS ☒	CONTACT MANUFACTURER ☐	REMOVE & REPLACE ☐	CORRECT & USE AS SPECIFIED ☐
21. ADEPT REPRESENTATIVE: **Timothy L. Meade**	22. SIGNATURE: Timothy L. Meade			23. DATE: **28 February, 2014**