AEROSPACE DATA EXCHANGE PROGRAM TRANSMITTAL

DMSMS NOTICE

DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES

1. TITLE	2. DOCUMENT NUMBER
OBSOLESCENCE AND FOUNDRY MIGRATION NOTICE FOR MICROCIRCUIT, DIGITAL, ADVANCED CMOS, RADIATION HARDENED, INVERTING OCTAL BUFFER/LINE DRIVER WITH THREE-STATE OUTPUTS, TTL COMPATIBLE INPUTS, MONOLITHIC SILICON	SPO-2018-D-0001
	3. DATE *(Year, Month, Date)* 2018, August, 30

4. MANUFACTURER NAME AND ADDRESS	5. MANUFACTURER POINT OF CONTACT (NAME)
CAES 4350 CENTENNIAL BOULEVARD COLORADO SPRINGS, COLORADO 80907-3486	Rebekah Tomsick
	6. MANUFACTURER POINT OF CONTACT TELEPHONE 719-594-8058
	7. MANUFACTURER POINT OF CONTACT EMAIL Rebekah.Tomsick@cobhamaes.com

8. CAGE CODE	9. MANUFACTURER FINAL ORDER DATE	10. PRODUCT IDENTIFICATION CODE	11. BASE PART
65342	SEE COMMENTS BELOW	L240	UT54ACTS240
12. BLANK		13. SMD NUMBER 5962-96569	14. DEVICE TYPE DESIGNATOR 01
		15. RHA LEVELS R, F, G, AND H	16. QML LEVEL Q and V
		17. NON QML LEVEL N/A	18. GIDEP NUMBER GB4-D-18-0002

19. COMMENTS

CAES COLORADO SPRINGS INC. IS ISSUING THIS DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES NOTICE TO ANNOUNCE OBSOLESCENCE AND FOUNDRY MIGRATION OF DEVICE TYPE 01 FROM 1.2µm RADIATION-HARDENED CMOS TO ON-SEMICONDUCTOR'S 0.6µm C5U COMMERCIAL RADIATION-HARDENED CMOS PROCESS. THE MIGRATED DEVICE WILL CONTINUE TO SHIP AS DEVICE TYPE 01, FORM, FIT, AND FUNCTIONAL TO THE LEGACY DEVICE, WITH ADJUSTMENTS DESCRIBED BELOW.

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 IS NO LONGER ACCEPTING PURCHASE ORDERS FOR DEVICE TYPE 01 WITH THE RHA LEVEL H OR OUTLINE CASE E. ADDITIONALLY, DIE SALES AGAINST DIE DETAIL A ARE NO LONGER AVAILABLE. FUTURE DIE SALES MAY BE ISSUED AGAINST DIE DETAIL B PER THE UPDATED SMD. NOTE: THE NEW DIE SUPPLIED AGAINST DIE DETAIL B REQUIRES A SUBSTRATE BIAS TO VSS. FINALLY, THE POST IRRADIATION QIDD LIMIT WILL BE INCREASED AS OUTLINED BELOW.

TABLE IA. Electrical performance characteristics.

Test	Symbol	Test conditions 2/ $-55°C \le T_C \le +125°C$ unless otherwise specified	Device type	V_{DD}	Group A subgroups	Limits		Unit
						Min	Max	
Quiescent supply current	I_{DDQ}	$V_{IN} = V_{DD}$ or V_{SS}	All	5.5 V	1, 2, 3		10.0	µA
		Max Rated RHA 2/	All	5.5 V	1		50.0	

THE MIGRATED DEVICE OFFERING WILL BE AVAILABLE WITH THE FOLLOWING OPTIONS:
SMD #: 5962-96569 DEVICE TYPE: 01
AVAILABLE RHA DESIGNATORS: R (100KRADS (SI)), F (300KRADS (SI)), G (500KRADS (SI))
DEVICE CLASS: Q, V
CASE OUTLINE DESIGNATOR: X (20 LEAD FLAT PACK) OR DIE CODE: 9
LEAD FINISH: A, C, X, OR DIE DETAIL: B

Obsolete SMD PINs							Vendor Similar PINs	
5962	H	96569	01	V	R	A	UT54ACTS240-	PVAH
5962	H	96569	01	V	X	A	UT54ACTS240-	UVAH
5962	H	96569	01	V	R	C	UT54ACTS240-	PVCH
5962	H	96569	01	V	X	C	UT54ACTS240-	UVCH
5962	H	96569	01	Q	R	A	UT54ACTS240-	PQAH
5962	H	96569	01	Q	X	A	UT54ACTS240-	UQAH
5962	H	96569	01	Q	R	C	UT54ACTS240-	PQCH
5962	H	96569	01	Q	X	C	UT54ACTS240-	UQCH
5962	H	96569	01	V	9	A	UT54ACTS240-	V-DIE
5962	H	96569	01	Q	9	A	UT54ACTS240-	Q-DIE

Replacement SMD PINs							Vender Similar PINs	
5962	G	96569	01	V	X	A	UT54ACTS240-	UVAG
5962	G	96569	01	V	X	C	UT54ACTS240-	UVCG
5962	G	96569	01	Q	X	A	UT54ACTS240-	UQAG
5962	G	96569	01	Q	X	C	UT54ACTS240-	UQCG
5962	G	96569	01	V	9	B	UT54ACTS240-	VDIEG
5962	G	96569	01	Q	9	B	UT54ACTS240-	QDIEG

20. ADEPT REPRESENTATIVE	21. SIGNATURE	22. DATE
Paul D Coe	Paul D Coe	**2018, September, 04**