

AEROSPACE DATA EXCHANGE PROGRAM TRANSMITTAL

# PRODUCT CHANGE NOTICE



<b>1. TITLE</b> MICROCIRCUIT, DIGITAL, RADIATION HARDENED, ADVANCED CMOS, SCHMITT 16-BIT BIDIRECTIONAL MULTI-PURPOSE REGISTERED TRANSCEIVER WITH THREE-STATE OUTPUTS, MONOLITHIC SILICON		<b>2. DOCUMENT NUMBER</b> SPO-2012-PCN-0004A	
<b>4. MANUFACTURER NAME AND ADDRESS</b> CAES 4350 CENTENNIAL BOULEVARD COLORADO SPRINGS, COLORADO 80907-3486		<b>3. DATE (Year, Month, Date)</b> 13 FEB 2012 / Ammended 15 JUNE 2012	
		<b>5. MANUFACTURER POINT OF CONTACT NAME</b> Michelle Mundie	
		<b>6. MANUFACTURER POINT OF CONTACT TELEPHONE</b> 719-594-8052	
<b>8. CAGE CODE</b> 65342		<b>7. MANUFACTURER POINT OF CONTACT EMAIL</b> mundie@cobhamaes.com	
		<b>9. EFFECTIVE DATE</b> 2007 MARCH 23	
<b>12. Ammended Comments:</b> <ul style="list-style-type: none"> <li>6/15/2012: Corrected SMD # FROM: 06239 TO: 06234</li> </ul>		<b>10. PRODUCT IDENTIFICATION CODE</b> KE01	<b>11. BASE PART</b> UT54ACS164646S
		<b>13. SMD NUMBER</b> 5962-06234	<b>14. DEVICE TYPE DESIGNATOR</b> 01
		<b>15. RHA LEVELS</b> R	<b>16. QML LEVEL</b> Q, V
<b>17. NON QML LEVEL</b> C, P		<b>18. BLANK</b>	

**19. PRODUCT CHANGE**  
 CAES IS CHANGING THE 'TSKEW' and 'TOST' LIMITS IN THE DATASHEET AND SMD.

ON SMD SHEET 11 (Datasheet Page 9): FROM 1000ps TO 1500ps FOR TOST  
 ON SMD SHEET 13 (Datasheet Page 11): FROM 400ps TO 600ps FOR TSKEW  
 ON SMD SHEET 13 (Datasheet Page 11): FROM 600ps TO 1500ps FOR TOST  
 ON SMD SHEET 14 (Datasheet Page 13): FROM 1300ps TO 1500ps FOR TOST

CAES IS ALSO UPDATING THE SMD NOTES /15 AND /16 FROM:

15/ OUTPUT SKEW IS DEFINED AS A COMPARISON OF ANY TWO OUTPUT TRANSITIONS HIGH-TO-LOW VERSUS HIGH-TO-LOW AND LOW-TO-HIGH VERSUS LOW-TO-HIGH.

16/ DIFFERENTIAL OUTPUT SKEW IS DEFINED AS THE COMPARISON OF TWO OUTPUTS TRANSITIONING IN OPPOSITE DIRECTIONS LOW-TO-HIGH AND HIGH-TO-LOW.

TO :

15/ FOR DEVICE TYPES 01, OUTPUT SKEW IS DEFINED AS A COMPARISON OF ANY TWO OUTPUT TRANSITIONS OF THE SAME TYPE AT THE SAME TEMPERATURE AND VOLTAGE FOR THE SAME PORT WITHIN THE BYTE:1A1 THROUGH 1A8 ARE COMPARED HIGH-TO LOW VERSUS HIGH-TO-LOW AND LOW-TO-HIGH VERSUS LOW-TO-HIGH; SIMILARLY 1B1 THROUGH 1B8 ARE COMPARED, 2A1 THROUGH 2A8 ARE COMPARED AND 2B1 THROUGH 2B8 ARE COMPARED.

16/ FOR DEVICE TYPES 01, DIFFERENTIAL OUTPUT SKEW IS DEFINED AS A COMPARISON OF ANY TWO OUTPUT TRANSITIONS OF OPPOSITE TYPES AT THE SAME TEMPERATURE AND VOLTAGE FOR THE SAME PORT WITHIN THE BYTE:1A1 THROUGH 1A8 ARE COMPARED HIGH-TO-LOW VERSUS LOW-TO-HIGH; SIMILARLY 1B1 THROUGH 1B8 ARE COMPARED, 2A1 THROUGH 2A8 ARE COMPARED AND 2B1 THROUGH 2B8 ARE COMPARED.

<b><u>STANDARD MICROCIRCUIT DRAWING</u></b>	<b><u>DEVICE TYPE</u></b>	<b><u>MANUFACTURER PART NUMBER</u></b>
5962-06234	01	UT54ACS164646S

<b>20. DISPOSITIONARY RECOMMENDATION:</b>		USE AS IS <input type="checkbox"/>	CONTACT MANUFACTURER <input type="checkbox"/>	REMOVE & REPLACE <input type="checkbox"/>	CHECK & USE AS IS <input checked="" type="checkbox"/>
<b>21. ADEPT REPRESENTATIVE</b> Timothy L. Meade		<b>22. SIGNATURE</b> 			<b>23. DATE</b> 2012, March, 16 2012, June, 15 (A)