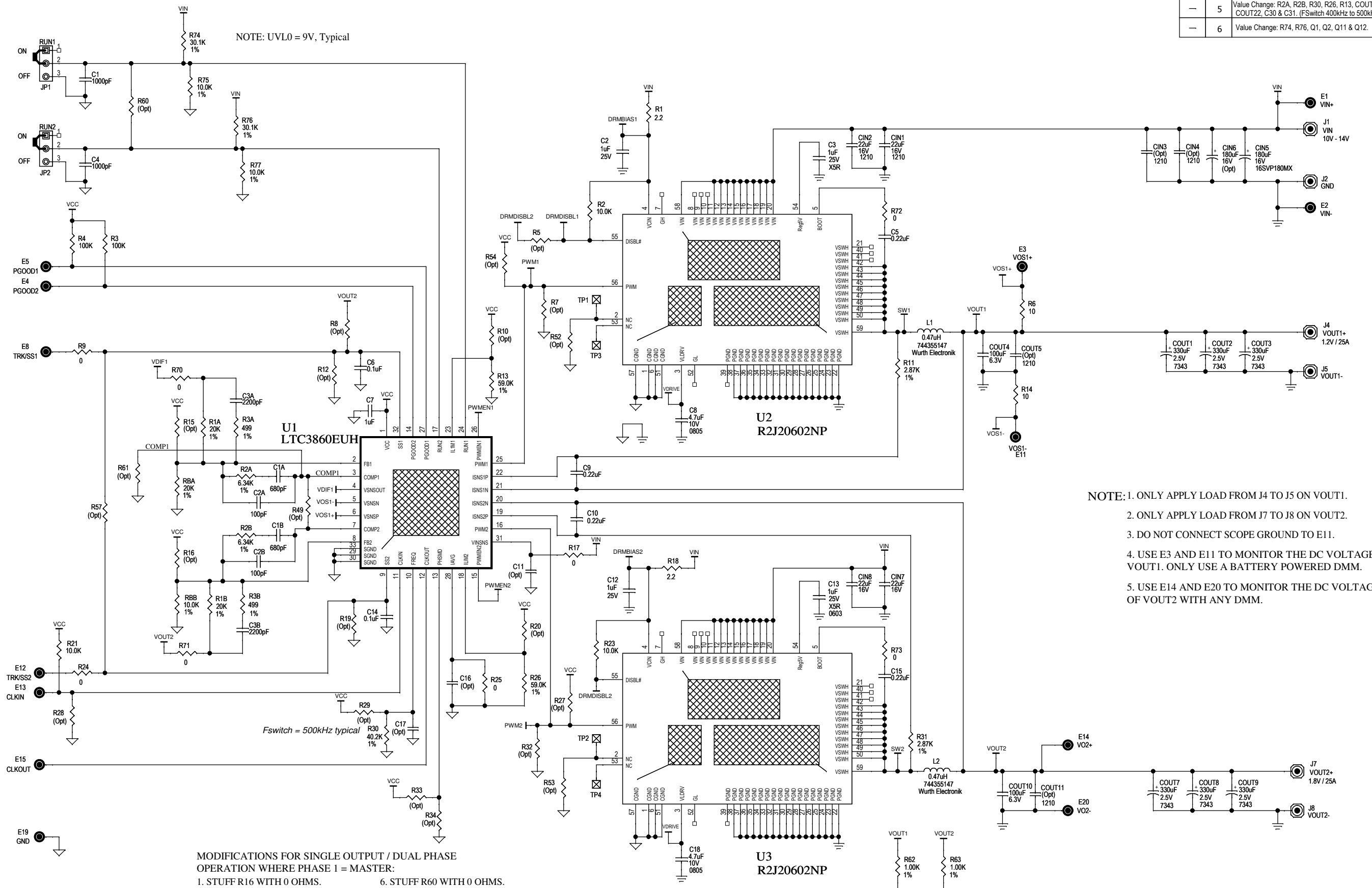


REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
-	4	PRODUCTION	Mike Shriver	06/22/09
-	5	Value Change: R2A, R2B, R30, R26, R13, COUT17, COUT22, C30 & C31. (FSwitch 400kHz to 500kHz)	Mike S.	01/11/10
-	6	Value Change: R74, R76, Q1, Q2, Q11 & Q12.	Mike S.	04/14/10



- NOTE: 1. ONLY APPLY LOAD FROM J4 TO J5 ON VOUT1.
 2. ONLY APPLY LOAD FROM J7 TO J8 ON VOUT2.
 3. DO NOT CONNECT SCOPE GROUND TO E11.
 4. USE E3 AND E11 TO MONITOR THE DC VOLTAGE OF VOUT1. ONLY USE A BATTERY POWERED DMM.
 5. USE E14 AND E20 TO MONITOR THE DC VOLTAGE OF VOUT2 WITH ANY DMM.

- MODIFICATIONS FOR SINGLE OUTPUT / DUAL PHASE OPERATION WHERE PHASE 1 = MASTER:
1. STUFF R16 WITH 0 OHMS.
 2. STUFF R49 WITH 0 OHMS.
 3. STUFF R20 WITH 0 OHMS.
 4. REMOVE 0 OHM RESISTOR AT R25.
 5. STUFF C16 WITH 100PF.
 6. STUFF R60 WITH 0 OHMS.
 7. STUFF R57 WITH 0 OHMS.
 8. REMOVE REDUNDANT COMPENSATION COMPONENTS.
 9. TIE VOUT1 AND VOUT2 SHAPES TOGETHER.
- BODE PLOT SETUP:
1. FOR VOUT1, APPLY EXCITATION SIGNAL ACROSS R6.
 2. FOR VOUT2, APPLY EXCITATION SIGNAL ACROSS R71 AND CHANGE ITS VALUE TO 10 OHMS.

NOTE: UNLESS OTHERWISE SPECIFIED.
 1. ALL RESISTORS ARE IN OHMS, 0603.
 2. ALL CAPACITORS ARE IN MICROFARAD, 0603.

CUSTOMER NOTICE		APPROVALS		LINEAR TECHNOLOGY	
LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.		PCB DES.	R8	1630 McCarthy Blvd. Milpitas, CA 95035 www.linear.com Phone: (408)432-1900 Fax: (408)434-0507 LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY	
TITLE: SCHEMATIC		APP ENG.	Mike S.	HIGH CURRENT DUAL OUTPUT/DUAL PHASE SYNCHRONOUS BUCK CONVERTER	
C:\ORCAD\WINCAPTURE\1184A\1184A_REV6.DSN		SIZE	N/A	IC NO.	LTC3860EUH
THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.		SCALE	NONE	REV. 5	
		DATE:	Wednesday, April 14, 2010		SHEET 1 OF 2

