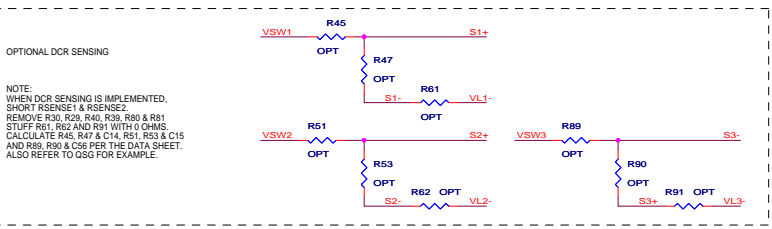
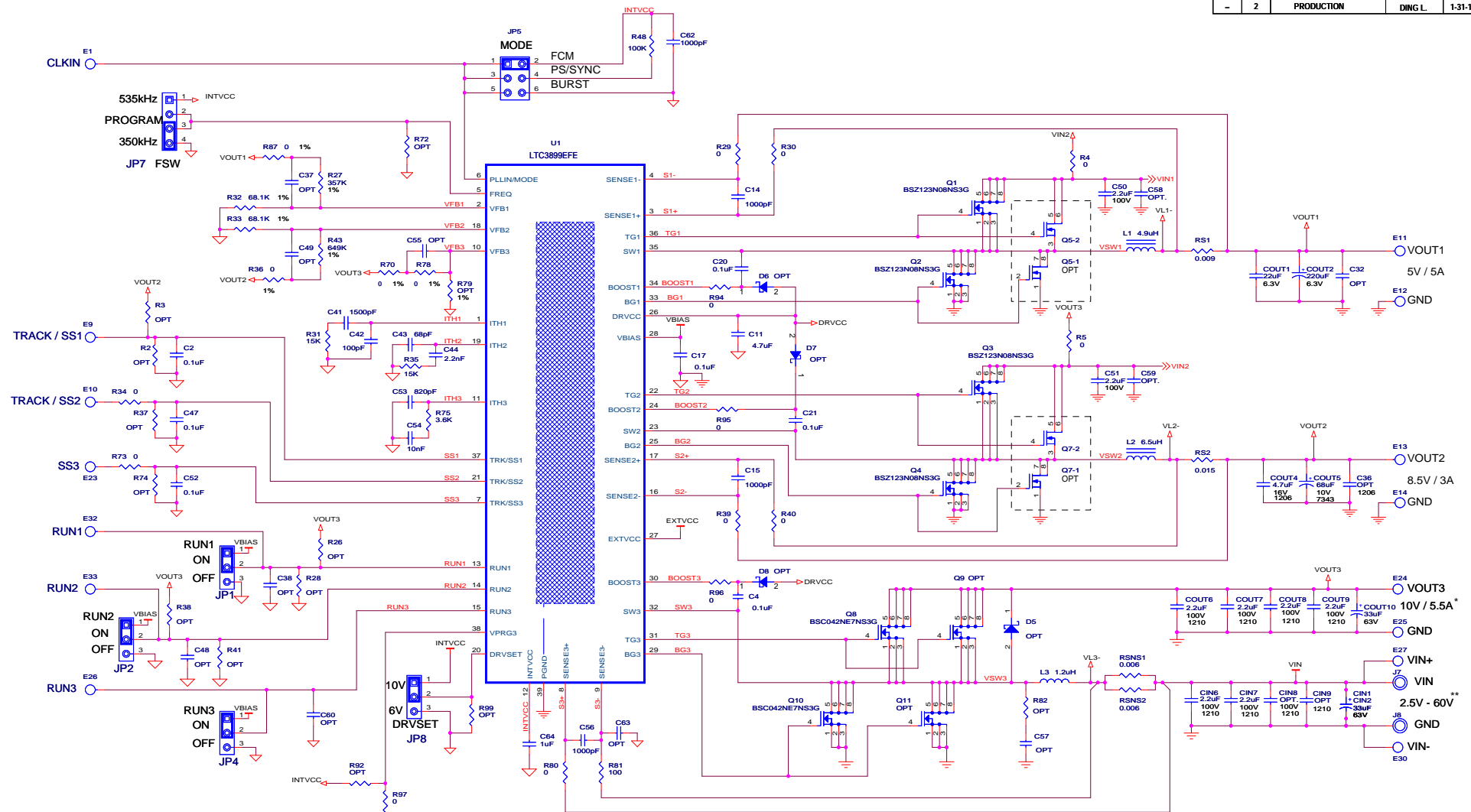


REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
-	2	PRODUCTION	DING L	1-31-14



NOTE:  
 WHEN DCR SENSING IS IMPLEMENTED,  
 SHORT RSENSE1 & RSENSE2.  
 REMOVE R30, R28, R40, R38, R80 & R81  
 STUFF R61, R62 AND R91 WITH 0 OHMS.  
 CALCULATE R45, R47 & C14, R51, R53 & C15  
 AND R89, R90 & C26 PER THE DATA SHEET.  
 ALSO REFER TO QSG FOR EXAMPLE.

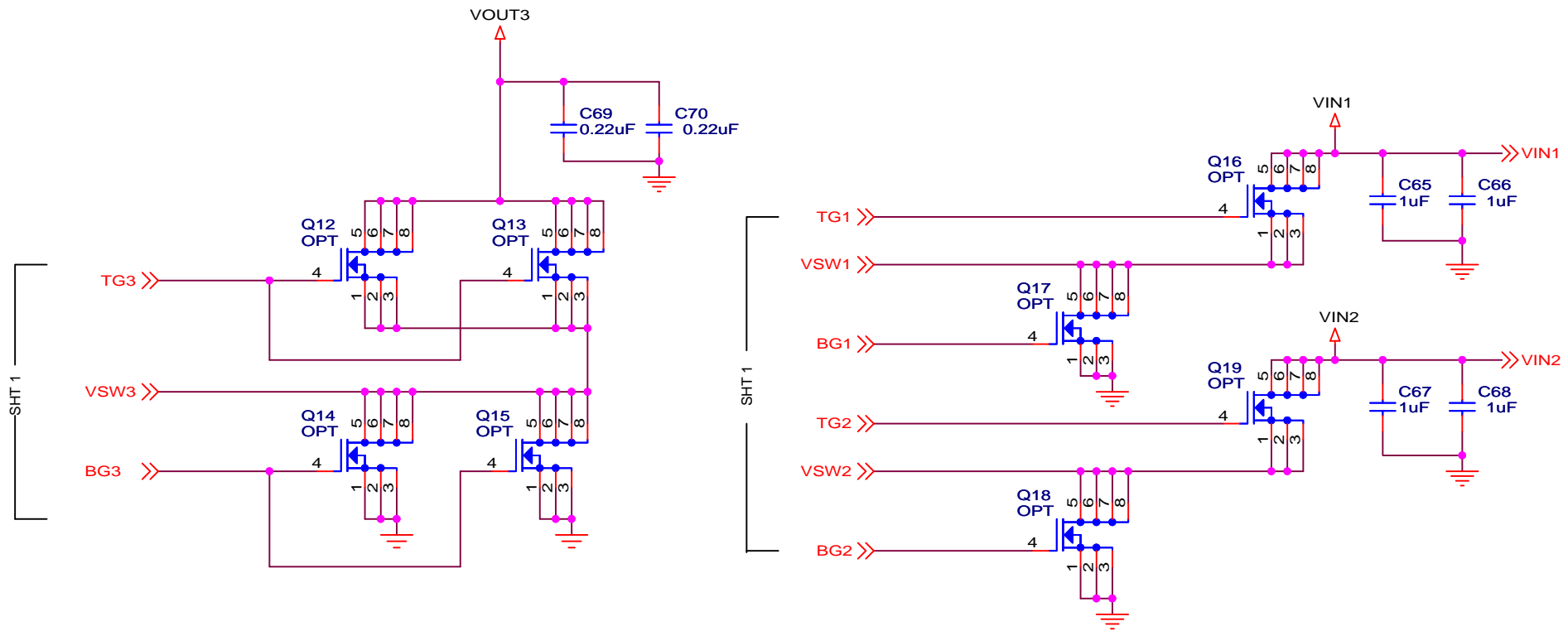
NOTE: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTORS ARE IN OHMS, 0603.
2. ALL CAPACITORS ARE IN MICROFARADS, 0603.

\* OUTPUT 10V ONLY WHEN VIN < 10V, OTHERWISE VOUT3 FOLLOWS VIN.  
 DON'T CONNECT ANY LOAD.  
 \*\* VIN NEEDS TO BE >4.5V TO START UP.

**CUSTOMER NOTICE**  
 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.

APPROVALS			1630 McCarthy Blvd. Milpitas, CA 95035 Phone: (408)432-1900 www.linear.com Fax: (408)434-6507 LTC Confidential-For Customer Use Only	
PCB DES:	HZ		TITLE:	TRIPLE OUTPUT SYNCHRONOUS STEP-UP/DUAL STEP-DOWN SUPPLY
APP ENG:	DING L	SIZE:	N/A	
SCALE:	NONE	IC NO.:	LTC3899EFE	
DATE:	Tuesday, November 04, 2014	REV.:	2	
			DEMO CIRCUIT 1898A	
			SHEET 1 OF 2	



**CUSTOMER NOTICE**  
 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.

THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

APPROVALS	
PCB DES.	HZ
APP ENG.	DING L.
SCALE = NONE	

**LINEAR TECHNOLOGY**  
 1630 McCarthy Blvd.  
 Milpitas, CA 95035  
 Phone: (408)432-1900 www.linear.com  
 Fax: (408)434-0507  
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TITLE: SCHEMATIC  
 TRIPLE OUTPUT SYNCHRONOUS  
 STEP-UP/DUAL STEP-DOWN SUPPLY

SIZE N/A	IC NO. LTC3899EFE DEMO CIRCUIT 1898A	REV. 2
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DATE: Tuesday, February 25, 2014

SHEET 2 OF 2