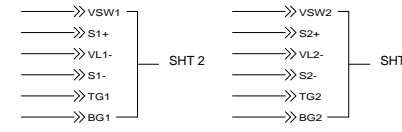
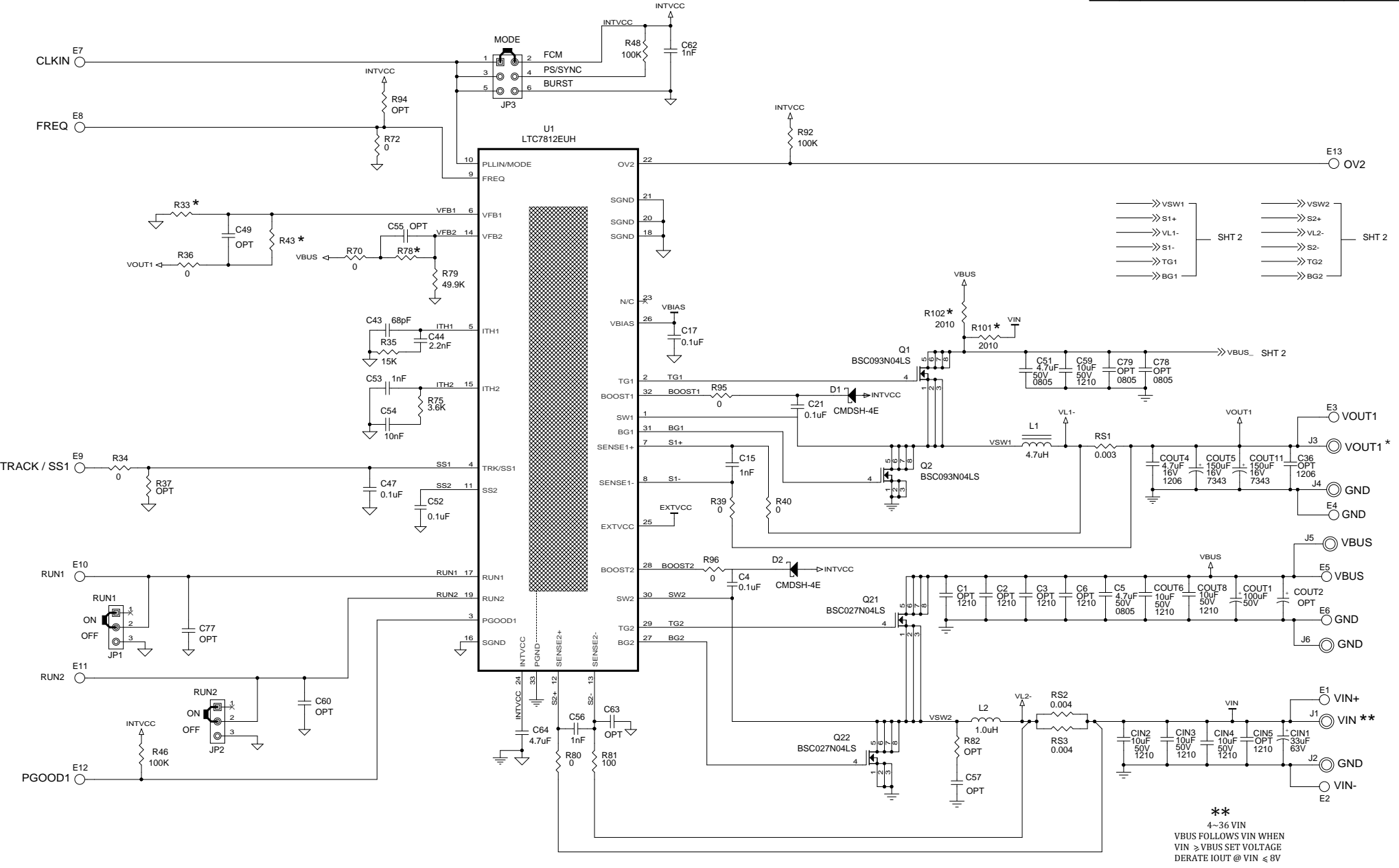


REVISION HISTORY				
ECO	REV	DESCRIPTION	DATE	APPROVED
-	2	PRODUCTION	11/30/15	DL



**
4-36 VIN
VBUS FOLLOWS VIN WHEN
VIN > VBUS SET VOLTAGE
DERATE IOUT @ VIN < 8V

NOTE: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS AND CAPACITORS ARE 0603.

ASSY	VOUT1	R33	R43	R78	R101	R102
-A	12V	35.7K	499K	549K	OPT	0
-B	12V	26.7K	499K	365K	OPT	0
-C	5V	68.1K	357K	453K	0	OPT

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.	LT
APP ENG.	DL

1630 McCarthy Blvd.
Milpitas, CA 95035
Phone: (408)432-1900 www.linear.com
Fax: (408)434-0507
LTC Confidential-For Customer Use Only

LINEAR TECHNOLOGY

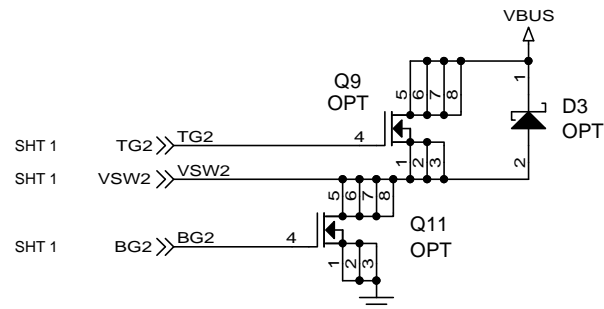
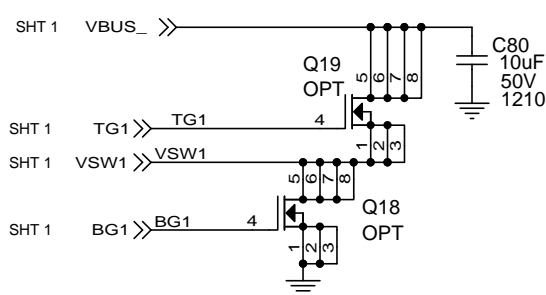
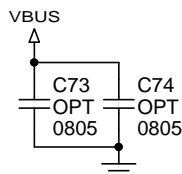
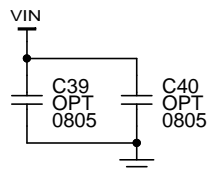
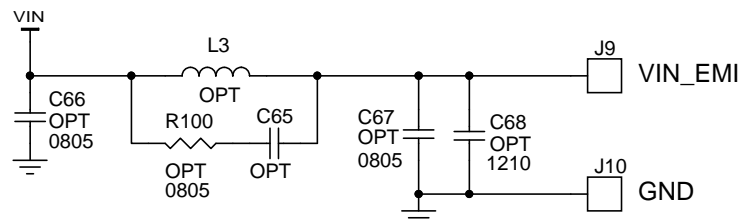
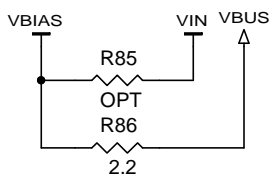
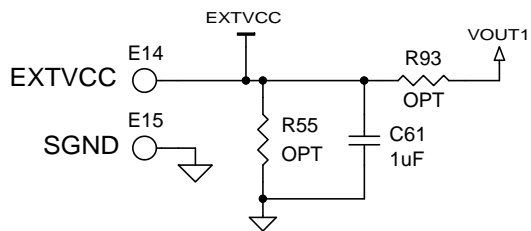
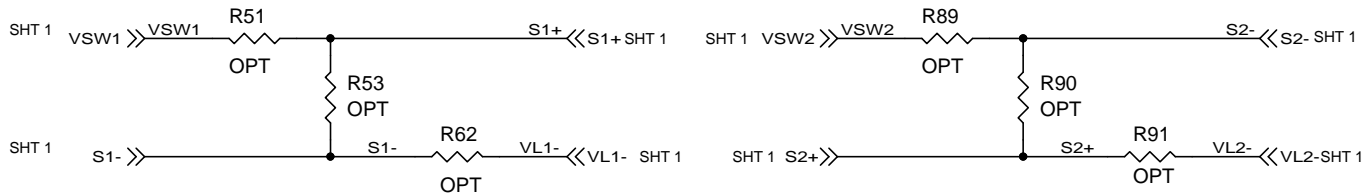
TITLE: SCHEMATIC
WIDE VIN, STEP UP/DOWN POWER SUPPLY


SIZE N/A IC NO. **LTC7812EUH DEMO CIRCUIT 2422A** REV. **2**

SCALE = NONE DATE: Monday, November 30, 2015 SHEET 1 OF 2

OPTIONAL DCR SENSING

NOTE:
 WHEN DCR SENSING IS IMPLEMENTED SHORT RS1 & RS2.
 REMOVE R30, R29, R80 & R81. STUFF R62 AND R91 WITH 0 OHMS.
 CALCULATE R51, R53 & C15 AND R89, R90 & C56 PER THE DATA SHEET.
 ALSO REFER TO QSG FOR EXAMPLE.



CUSTOMER NOTICE		APPROVALS		 1630 McCarthy Blvd. Milpitas, CA 95035 Phone: (408)432-1900 www.linear.com Fax: (408)434-0507 LTC Confidential-For Customer Use Only			
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.	LT	TITLE: SCHEMATIC			
		APP ENG.	DL				
		THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.		SIZE	IC NO.	WIDE VIN, STEP UP/DOWN POWER SUPPLY LTC7812EUH DEMO CIRCUIT 2422A	
				N/A			
SCALE = NONE		DATE:	Monday, November 30, 2015	SHEET 2 OF 2			