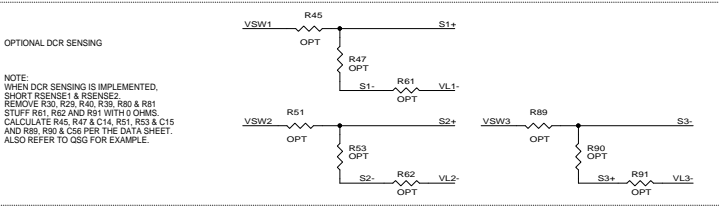
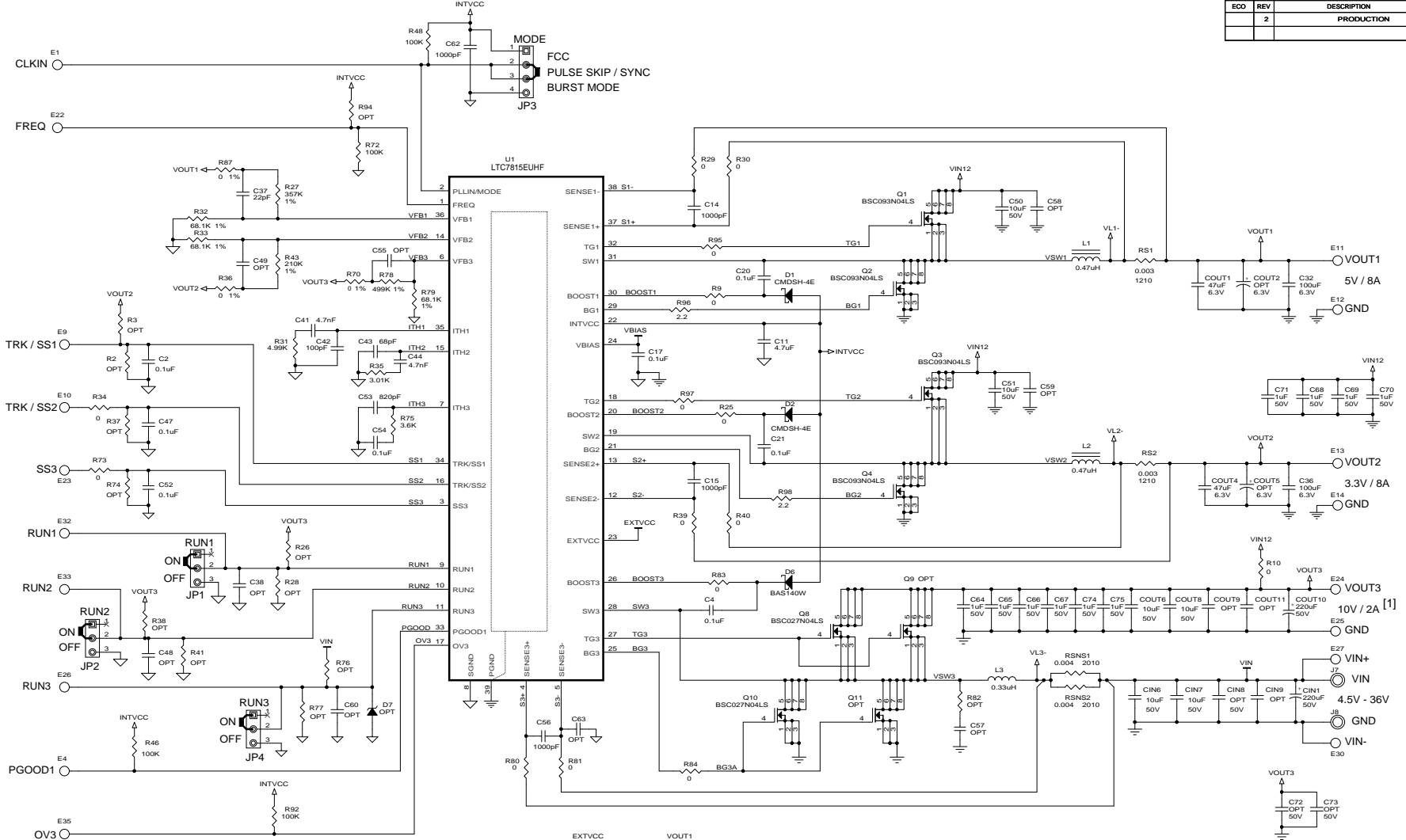
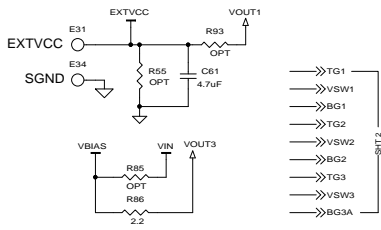


| REVISION HISTORY |     |             |          |          |
|------------------|-----|-------------|----------|----------|
| ECO              | REV | DESCRIPTION | DATE     | APPROVED |
|                  | 2   | PRODUCTION  | 12/06/17 | DING L.  |

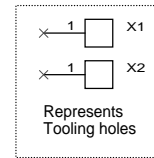
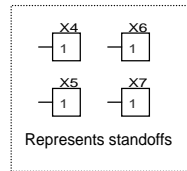
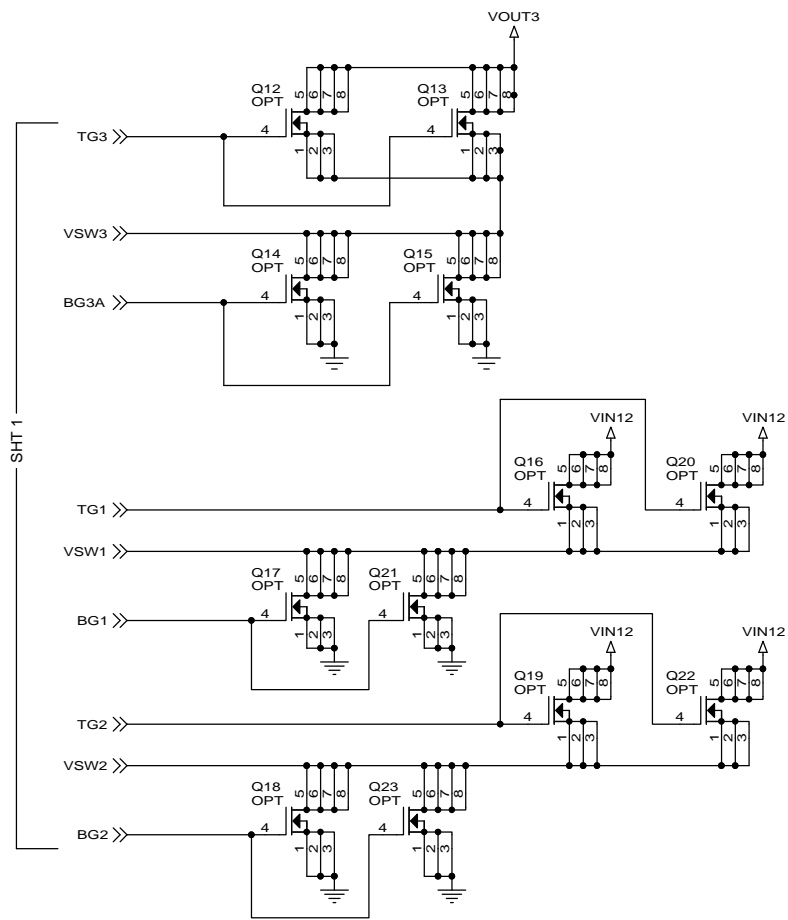


NOTE:  
WHEN DCR SENSING IS IMPLEMENTED,  
SHORT SENSE1+ & SENSE2+  
REMOVE R50, R52, R40, R33, R50 & R81  
STUFF R61, R62 AND R61 WITH 0 OHMS.  
CALCULATE R45, R47 & C14, R61, R53 & C15  
AND R69, R90 & C56 PER THE DATA SHEET.  
ALSO REFER TO QSG FOR EXAMPLE.



[1] OUTPUT 10V ONLY WHEN VIN < 10V, OTHERWISE VOUT3 FOLLOWS VIN.

| CUSTOMER NOTICE  |  | APPROVALS |  |             | 1630 McCarthy Blvd.<br>Milpitas, CA 95035<br>Phone: (408)432-1900/www.linear.com<br>Fax: (408)434-0507<br>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   |
|  |  |           |  | APP ENG:    | DING L.  | TRIPLE OUTPUT SYNCHRONOUS STEP-UP<br>AND DUAL STEP-DOWN SUPPLIES                                 |
|  |  |           |  | SCALE: NONE |  | SIZE: N/A<br>IC NO.: LTC7815ALEUHF<br>REV: 2<br>DATE: Tuesday, December 05, 2017<br>SHEET 1 OF 2 |



|  |   |         |                            |   |                                     |
|--|---|---------|----------------------------|---|-------------------------------------|
| <p align="center"><b>CUSTOMER NOTICE</b></p> <p>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.</p> | <b>APPROVALS</b>  |         |                            | 1630 McCarthy Blvd.<br>Milpitas, CA 95035<br>Phone: (408)432-1900 <a href="http://www.linear.com">www.linear.com</a><br>Fax: (408)434-0507<br><small>LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY</small> |                                     |
|  | PCB DES.  | LT      |                            | <b>TITLE: SCHEMATIC</b><br><b>TRIPLE OUTPUT SYNCHRONOUS STEP-UP AND DUAL STEP-DOWN SUPPLIES</b>   |                                     |
|  | APP ENG.  | DING L. | SIZE                       |   |                                     |
|  | THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS. |         | SCALE = NONE               | N/A   | LTC7815ALEUHF<br>DEMO CIRCUIT 2738A |
| DATE:  |   |         | Tuesday, December 05, 2017 |   | SHEET 2 OF 2                        |