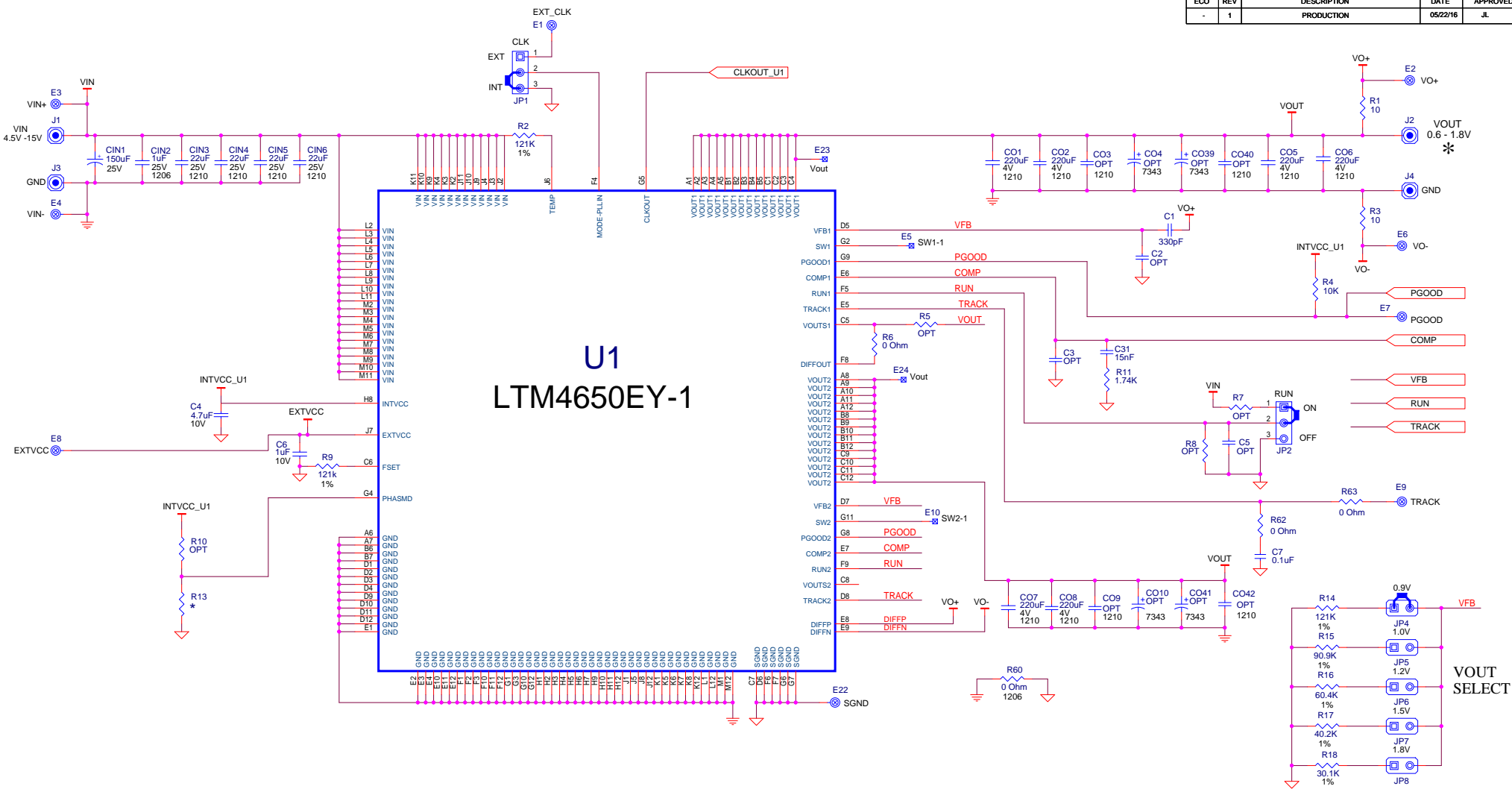


REVISION HISTORY				
ECO	REV	DESCRIPTION	DATE	APPROVED
-	1	PRODUCTION	05/22/16	JL



*								
ASSY	I.C.	Iout	R13	R34	Cin12, 13, 14, 15	Cin16, 17, 18, 19	Co20, 21, 26, 27 Co33, 36, 52, 54	Co22, 28, 30, 32 Co34, 35, 48, 50
-A	U1, U2	100A	OPT	OPT	OPT	OPT	OPT	OPT
-B	U1, U2, U3	150A	0	0	22uF	OPT	220uF	OPT
-C	U1, U2, U3, U4	200A	OPT	0	22uF	220uF	220uF	220uF

NOTE: UNLESS OTHERWISE SPECIFIED,
1. ALL CAPACITORS, RESISTORS 0603.

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.

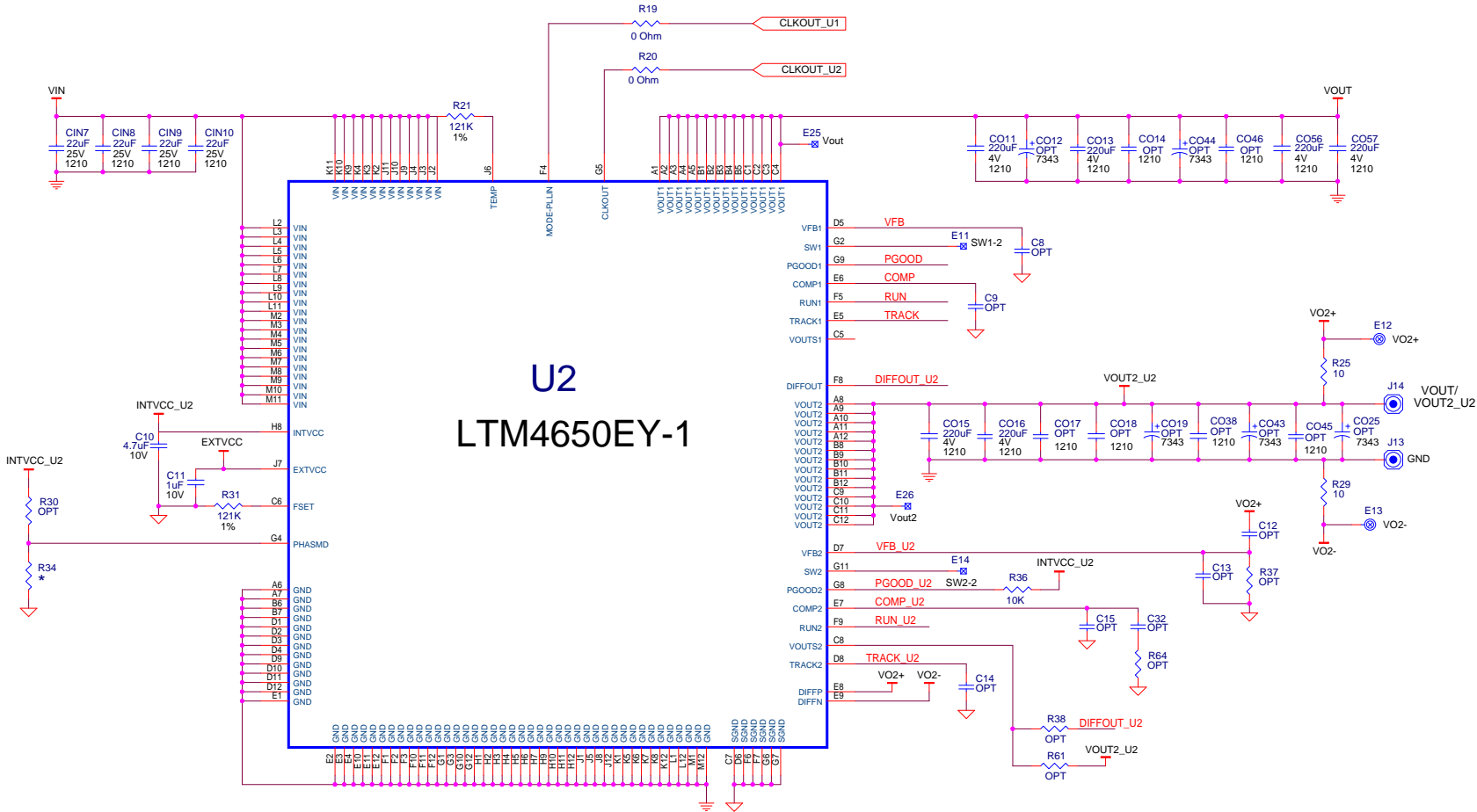
APPROVALS	
PCB DES.	LT
APP ENG.	JL
SCALE = NONE	

LINEAR TECHNOLOGY
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
HIGH EFFICIENCY, POLYPHASE, DC/DC STEP-DOWN μ MODULE REGULATOR

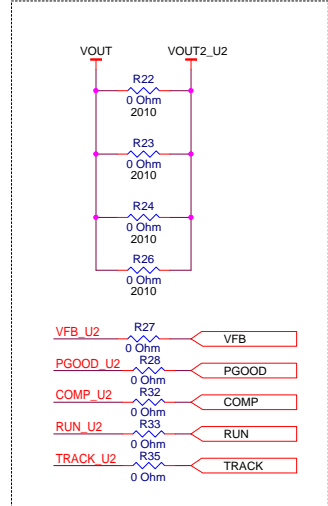
SIZE	IC NO.	REV.
N/A	LTM4650EY-1	1
DATE:	DEMO CIRCUIT 2455A-(A,B,C)	
Monday, May 23, 2016		

SHEET 1 OF 5

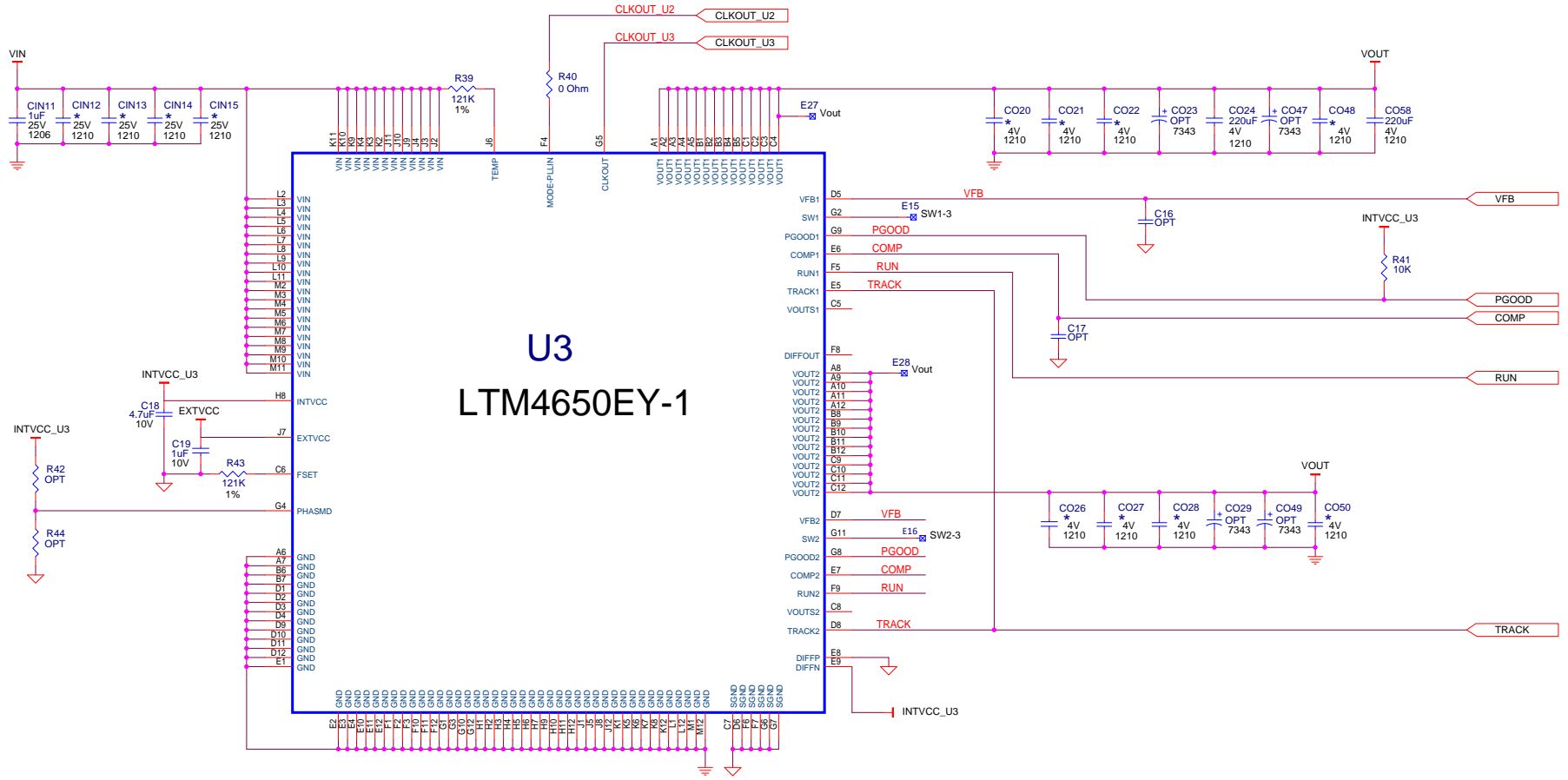


U2
LTM4650EY-1

REMOVE 0 OHM JUMPERS FOR SEPARATE VOUT2_U2.

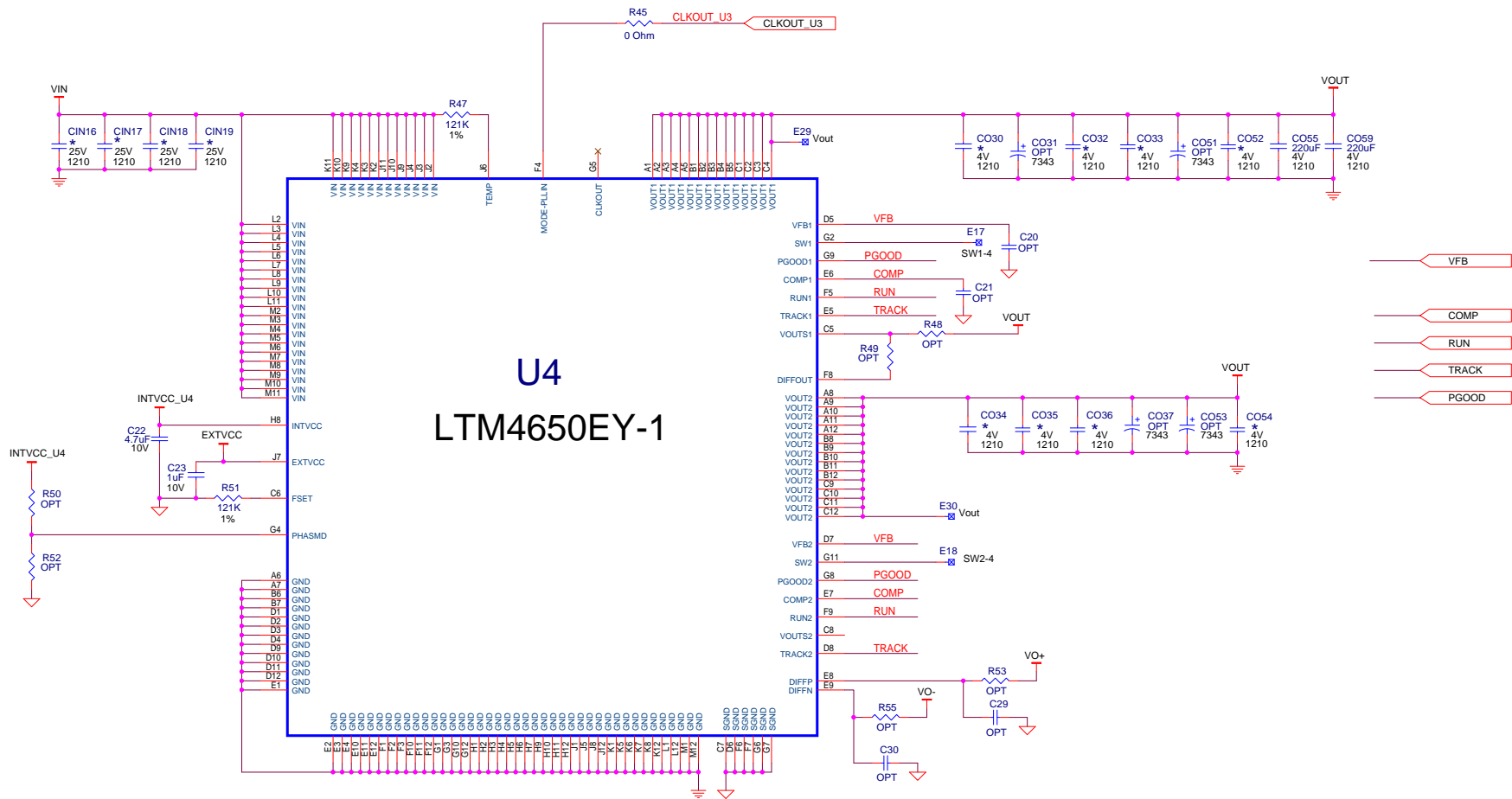


CUSTOMER NOTICE		APPROVALS		 LINEAR TECHNOLOGY	1630 McCarthy Blvd. Milpitas, CA 95035 www.linear.com Phone: (408)432-1900 Fax: (408)434-0507 LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY	
<small>LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, 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.</small>		PCB DES.	LT		TITLE: SCHEMATIC	SIZE
		APP ENG.	JL		N/A	LTM4650EY-1
						DEMO CIRCUIT 2455A-(A,B,C)
<small>THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.</small>		SCALE = NONE			DATE:	Monday, May 23, 2016
						REV. 1
						SHEET 2 OF 5

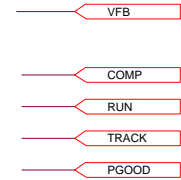


U3
LTM4650EY-1

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 PCB DES. LT APP ENG. JL		 LINEAR TECHNOLOGY	1630 McCarthy Blvd. Milpitas, CA 95035 www.linear.com Phone: (408)432-1900 Fax: (408)434-0507 LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY	
		THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.			TITLE: SCHEMATIC HIGH EFFICIENCY, POLYPHASE, DC/DC STEP-DOWN μ MODULE REGULATOR SIZE N/A IC NO. LTM4650EY-1 DEMO CIRCUIT 2455A-(A,B,C)	
SCALE = NONE			DATE: Monday, May 23, 2016		SHEET 3 OF 5	



U4
LTM4650EY-1



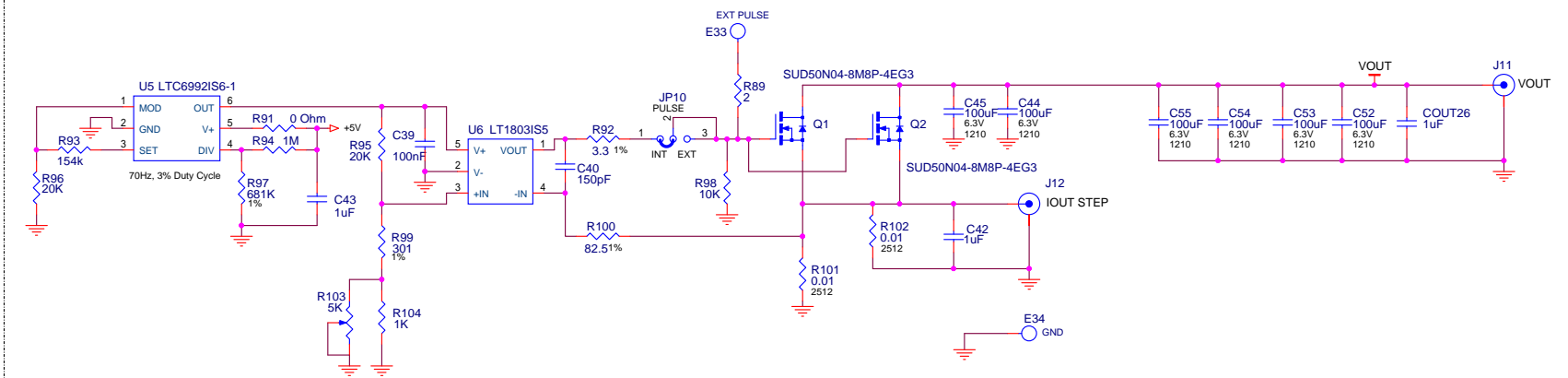
CUSTOMER NOTICE
 LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

APPROVALS	
PCB DES.	LT
APP ENG.	JL
SCALE = NONE	

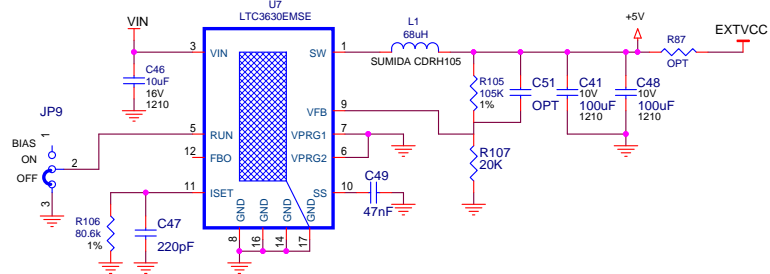
		1630 McCarthy Blvd. Milpitas, CA 95035 www.linear.com Phone: (408)432-1900 Fax: (408)434-0507 LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY	
		TITLE: SCHEMATIC HIGH EFFICIENCY, POLYPHASE, DC/DC STEP-DOWN μMODULE REGULATOR	
SIZE	IC NO.	LTM4650EY-1	REV.
N/A	DEMO CIRCUIT 2455A-(A,B,C)		1
DATE:	Monday, May 23, 2016		SHEET 4 OF 5

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

DYNAMIC LOAD CIRCUIT



OPTIONAL 5V BIAS



<p>CUSTOMER NOTICE</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>		<p>APPROVALS</p> <p>PCB DES. LT</p> <p>APP ENG. JL</p>		<p>LINEAR TECHNOLOGY</p> <p>1630 McCarthy Blvd. Milpitas, CA 95035 www.linear.com Phone: (408)432-1900 Fax: (408)434-0507 LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY</p>
		<p>THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.</p>		